GOVERNMENT OF INDIA MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE (IA DIVISION-INDUSTRY-1 SECTOR)

Dated: 07.03.2023

Date of Zero Draft MoM sent to EAC:05.03.2023 Approval by Chairman:07.03.2023 Uploading on PARIVESH:07.03.2023

MINUTES OF THE 24TH EXPERT APPRAISAL COMMITTEE (INDUSTRY-1 SECTOR) MEETING HELD ON 28TH FEBRUARY, 2023–1ST MARCH, 2023

- Venue: Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi - 110003 through Video Conferencing
- Time: 10:30 AM onwards

DAY-1: FEBRUARY 28, 2023 [TUESDAY]

(i) Opening Remarks by the Chairman, EAC

Shri. Rajive Kumar, Chairman EAC welcomed the Committee members and opened the EAC meeting for further deliberations.

Shri. Rajive Kumar also appreciated the efforts of the Ministry's Team (Industry 1 Sector) for preparation and uploading the agenda of the EAC meetings and draft record of discussion very scientifically, systematically and timely on Parivesh Portal.

(ii) Details of Proposals and Agenda by the Member Secretary

Dr. R. B. Lal, Scientist 'F' & Member Secretary, EAC (Industry-1 Sector) appraised to the Committee about the details of Agenda items to be discussed during this EAC meeting.

(iii) Confirmation of the Minutes of the 23rd Meeting of the EAC (Industry-1 Sector) held during February 14-15, 2023 at MoEF&CC through VC.

The EAC, having taken note that final minutes were issued after incorporating comments offered by the EAC (Industry-1 Sector) members on the minutes of its 23rd Meeting of the EAC (Industry-1 Sector) held during February 14-15, 2023 conducted through Video Conferencing, and noted that there is a modifications/factual correction, in the minutes of the 23rd EAC meeting for the project/activities as follows:

Agenda No. 23.7: Proposed Expansion of Sponge Iron Plant From 90,000 to 1,25,000 TPA, Induction Furnace & Billet Caster from 2x12T (300 TPD) To 1x12T, 1x15T (416 TPD), Captive Power Plant from 12 to 12.5 MW, Addition of Hot Rolling Mill including galvanizing 425 TPD, & Fly Ash Brick Manufacturing Unit 1000-1200 Bricks/Hr. by M/s. Goa Sponge & Power Limited, located at Survey No. 58/I,59/I,60/I (Part), Santona Village, Sanguem Taluka, South Goa District, Goa - Consideration of Modification in TOR and violation under SOP dated 07.07.2021.

[Proposal No. IA/GA/IND/296119/2022; File No. IA-J-11011/246/2018-IA.II(I)]

The aforementioned proposal was considered and recommended by EAC in its 23rd meeting of the EAC for Industry-I sector held on 14-15th February, 2023. The PP vide email dated 27.02.2023 submitted that the condition no. (ii) was incorrectly mentioned in the MoM of 23rd EAC, which may be corrected as following -

Ref in	Mentioned in the MoM of 23 rd	Proposed Modificaion / Correction
MoM	EAC meeting	
Page No. 81	(ii). The State	(ii). The State Government/SPCB to take action against
Para 23.7.9	Government/SPCB to take action	the project proponent under the provisions of the
additional	against the project proponent under	Environment (Protection) Act, 1986, and further no
conditions	the provisions of the Environment	consent to operate to be issued till the project is granted
(ii)	(Protection) Act, 1986, and further	EC for the Unit which violated under the provision of
	no consent to operate to be issued	the EIA notification 2006, i.e Proposed Expansion of
	till the project is granted EC for the	Sponge Iron Plant From 90,000 to 1,25,000 TPA,
	Unit which violated under the	Induction Furnace & Billet Caster from 2x12T (300
	provision of the EIA Notification	TPD) To 1x12T, 1x15T (416 TPD), Captive Power
	2006 i.e. 1.4 MTPA Iron Ore	Plant from 12 to 12.5 MW, Addition of Hot Rolling Mill
	Pellet Plant.	including galvanizing 425 TPD, & Fly Ash Brick
		Manufacturing Unit 1000-1200 Bricks/Hr.

Deliberations by the EAC:

It was informed to the Committee members that additional condition no. (ii) mentioned in the MoM of 23rd EAC for Industry-I sector held during February 14-15, 2023 pertaining to proposal agenda no. 23.7 as referred above.

The EAC deleiborated and noted that the request of the PP may be accepted and recommended for the incorporation of the above-mentioned corrections/modifications in the minutes of the meeting. Accordingly, [Para 23.7.9, additional conditions (ii)] stands modified in the minutes of 23nd EAC (Industry-1) meeting as detailed in table above.

Details of the proposals considered during the 24th meeting **conducted** through **Video Conferencing**, deliberations made and the recommendations of the Committee are explained in the respective agenda items as under:

Consideration of Environmental Clearance Proposals

Agenda No. 24.1

24.1 Integrated Cement Plant {Clinker - 4.5 Million TPA; Cement - 4.0 Million TPA (OPC, PPC, PSC, RHPC, SRC & Composite Cement); WHRS - 37.5 MW and D.G. Sets - 2500 KVA (2 x 1000 KVA & 1 x 500 KVA) or (1 x 1000 KVA, 2 x 500 KVA & 2 x 250 KVA)} by M/s Shree Cement Limited (Bangur Cement Unit), located at Villages- Bhivgarh, Jawangarh and Ras - II, Tehsil - Jaitaran, District – Pali, Rajasthan - Consideration of Environmental Clearance.

[Proposal No. IA/RJ/IND1/412731/2022; File No. IA-J-11011/398/2018-IA-II(I) [Consultant; J.M. EnviroNet Pvt. Ltd; Valid Upto: 07.08.2023]

- 24.1.1 M/s. Shree Cement Limited (Bangur Cement Unit) has made an online application vide proposal no. IA/RJ/IND1/412731/2022 dated 10.02.2023 along with copy of EIA/EMP report, CAF & Form 1 (Part A, B & C) seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006, for the project mentioned above. The proposed project activity is listed at schedule no. 3(b) Cement Plants under Category "A" of the schedule of the EIA Notification, 2006 is therefore, appraised at Central Level.
- 24.1.2 Name of the EIA consultant: M/s. J.M. Environet Pvt. Ltd. [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/2023/SA 0172; Valid up to 07.08.2023, as on February 27, 2023].

Date of	Consideration	Details	Date of	ToR Validity
application			accord	
01 st Dec., 2018	2 nd meeting of R-EAC (Industry - I) held during 10-12 th Dec., 2018	Terms of Reference	10 th July, 2019	00 th July 2023
16 th Sept., 2021	45 th meeting of R-EAC (Industry - I) held during 28-29 th Sep., 2021	Amendment	18 th Oct., 2021	07 July, 2023

Details submitted by Project proponent

24.1.3 The details of the ToR are furnished as below:

A. Details of ToR Proposal:

The aforesaid proposal was initially considered in the 2nd meeting of the Reconstituted Expert Appraisal Committee held during 10-12th December, 2018 wherein the Committee recommended for the site visit. Accordingly, site visit was undertaken by the sub-committee comprising of following members during 18-19th January, 2019.

Observations of the sub-committee: Based on the decisions in the 2^{nd} EAC meeting, sub-committee visited the site during 18th to 20^{th} January, 2019 and made following observations:

- *i.* The land area for the proposed plant is 31.47 ha, having a separate boundary and located adjacent to Captive Nimbeti Limestone Mine. The lime stone to the proposed plant shall be sourced from this mine.
- *ii. Captive Nimbeti Limestone mine is having minable reserve to the tune of 626.90 Million ton as on 31/01/2018 and the life of mine is 19 years at the rate of 32.8 Million TPA*

]	Date of	Consideration	Details	Date of	ToR Validity			
ap	plication			accord				
	production capacity for which PP has submitted ToR application on $18/7/2018$. These							
	reserve are proved for drilling upto 252 mRL (123 mbgl). The drill exploration is going							
	on to further to explore the more minerals and till that it has done upto 200 mbgl.							
iii.	The lime s	tone to the proposed plan	t shall be brough	nt by a closed	conveyor from the			
	crusher ins	stalled at the mines site.						
iv.	The distant around 100	ce between existing cemer Om.	nt plant boundary	y and propose	ed site boundary is			
v.	There is a	railway line betweenexist	ing cement plant	boundary and	d the proposed site			
	boundary.	The same railway line w	vill be used for i	receiving the	raw materials and			
	dispatch ce	ementproduct from both pla	nts.	0				
vi.	Road trans	portation shall also be prac	cticed for products	s and some rav	v materials.			
vii.	The site is	well connected to NH-158	(earlier SH - 39	from Beawar	to Ras Road). This			
	NH-158 c	onnects the plant site to h	NH – 14 (six la	ne highway c	connecting Delhi to			
	Mumbai);	which is approx. 19.4 Kn	ı in SE direction	from the pla	int site. As per the			
	Ministry o	f Road, transport andHigh	hways Notificatio	n dated 23/02	2/2018, the road is			
	proposed f	or further widening. The co	ondition of roads p	presently is not	t very good.			
viii.	The site is	having natural growth of	prosopisjuli flora	in abundance	e. In the North side			
	there is a p	private agriculture land adje	acent to the propo	sed site. One c	corner of the project			
	land is in	Northern side and is near	to the village Jaw	angarh as sh	own in the attached			
	google map	D		1				
ıx.	PP has de	veloped rain water collecti	on pits in the lea	sed area for i	use in the proposed			
	green field	project.	aba am ad that DD	had adomted	hast quailable and			
x.	innovativa	tachnologias such as insta	observed that PP	naa aaopiea with all kilns	with specific power			
	aeneration	from WHRS is the highest	in India: Installa	tion of $DeNOy$	system without use			
	of ammoni	a to control the NOx emiss	ion · installation of	of high efficien	t ESP & Rag filters			
	for control	of stack emission, concrete	d roads, vacuum s	weeping and o	covered storage.			
xi.	In the min	ing area PP has adopted	the controlled bl	asting, wet dr	illing and scientific			
	mining pr	actices. In Bagat Pura	residential colon	y, PP has a	leveloped excellent			
	plantation,	concreted roads, STP, com	posting plant, etc.	•				
xii.	PP was ad	lvised to put more efforts i	in the following a	reas for impr	ovement of existing			
	cement pla	nt.						
xiii.	Avoid grou	p plantation of single speci	es and adopt plan	ntation of mixe	d local species with			
	appropriat	e height.						
xiv.	More plan	ntation is required all alc	ong the plant bo	undary. PP s	should improve the			
	condition of	of the nursery.						
xv.	To further	reduce the fugitive emission	on especially by c	concreting the	roads from wall to			
	wall and li	fting of spillage & road side	e dust.					
xvi.	Local villa	igers, resident of village B	Ragatpura apprect	iated CSR wo	rk and employment			
	provided b	y the company and welcom	ned the proposed	project for fi	irther betterment of			
	social stati	is of villagers.						
Rec	Recommendations of the sub-committee: After detailed deliberations with the officials of							

Date of application	Consideration	Details	Date of accord	ToR Validity
the plant durir	ng the site visit, the follo	owing recommen	ndations were	made by the sub
committee for f	urther consideration of the p	proposal.		
i. The projec	t proponent shall plan for d des to create barrier betwee	evelopment of 50 en the plant and d) m wide green i agricultural fiel	belt in northern an Ids
ii. The project village Jaw	t proponent shall plan for vangarh as proposed in PFF	r development o R.	f 200 m wide	green belt toward
iii. Over all 3. broad leav	3% of the total project area ed tree species.	should be devel	oped as green i	belt with native an
iv. Possibility proposed c along with	of shifting the Cement m trea shall be explored and EIA/EMP.	ill proposed in details alongwith	Phase II to so h revised layou	outhern side of th t shall be submitte
v. Carrying C the EIA/EN	Capacity of traffic for cumu AP with all supporting detai	lative traffic load ils.	l to be estimate	ed and mentioned i
vi. In the exis 10% of the made to im	ting plant area and mines geographical areaand ma prove agri-crop yield and s	area, the green intained. In surr ocial forestry.	belt to be incre ounding village	eased by additiond es, efforts should b
vii. The projec along the to surround	t proponent shall prepare a oads leading tothe plant,al ding villages in a time boun	n action plan for long theinternal d manner within	development of development of roads and along two years".	f avenue plantatio g the roads leadin
The Committe deliberations, the granted by the M	e accepted the site visit ne Committee recommende Ministry on 10.07.2019.	report of the sed the project pr	sub-committee roposal and acc	and after detaile cordingly ToR wa
B. Details of	Amendment in TOR: Ar	nendment in TO	R was granted	by the Ministry of

- i The plant configuration changed to Clinker 4.5 MTPA: Cement 4.0 MTPA: WHPS
- i. The plant configuration changed to Clinker 4.5 MTPA; Cement 4.0 MTPA; WHRS -37.5 MW and D.G. Sets - 2500 KVA.
- ii. Other changes:
 - a. Project land area reduced from 40.87 ha to 32.27 ha.
 - b. Total project cost increased from Rs. 1310 crores to Rs. 1872 crores.
 - c. Total employment reduced from 230 to 170 persons.
 - d. Total electricity load reduced from 55.2 MW to 46.17 MW.
 - e. Total water requirement reduced from 630 KLD to 530 KLD.
 - f. Greenbelt along the periphery reduced from 50 m to 25 m in width.
- 24.1.4 The project of M/s. Shree Cement Limited (Bangur Cement Unit) located in Villages Bhivgarh, Jawangarh and Ras II, Tehsil Jaitaran, District Pali, Rajasthan is for setting up of a new Integrated Cement Plant {Clinker 4.5 Million TPA; Cement 4.0 Million TPA (OPC, PPC, PSC, RHPC, SRC & Composite Cement); WHRS 37.5 MW and D.G. Sets 2500 KVA (2 x 1000 KVA & 1 x 500 KVA) or (1 x 1000 KVA, 2 x 500 KVA & 2 x 250 KVA)}.
- 24.1.5 Environmental Site Settings:

S. No.	Particulars			Details			Remarks
i.	Total land	Total lan	d req	uired for the	e projec	et is 32.27 ha	Land use:
		(79.73 ad	cres).	Out of total	land a	rea; 21.62 ha	Industrial Land
		(53.42 acres) land has been converted into					(21.62 ha) &
		industria	l purp	ose and 10.	.65 ha	(26.31 acres)	Agricultural Land
		is agricu	ltural	land.			(10.65 ha) and
							conversion is
							under process.
	Land acquisition details	Total pro	oject	area is 32.2	27 ha (79.73 acres);	-
ii.	as per MoEF&CC O.M.	out of w	hich,	79.19 acres	(i.e., 9	99.32%) land	
	dated 7/10/2014.	is under	posse	ssion of Sh	ree Cei	ment Limited	
		and bala	ance	0.54 acres	(i.e.,	0.68%) land	
		acquisiti	on is u	under proces	ss.		
	Existence of habitation	Plant Si	ite: N	lo habitatio	n exist	s within the	R&R is not
iii.	& involvement of R&R,	project s	ite.				applicable
	if any.	Study	Area:	Nearby	village	e has been	
		provided	below	W-			
		Habita	tion	Distance	(km)	Direction	
		Jawang	garh	~0.1 K	m	North	
		Khei	ra	~1.0 K	m	East	
		Nimb	eti	~2.0 K	m	WNW	
		Ras	5	~2.5 K	m	North	
		Bhivg	arh	~2.5 K	m	SSE	
		Bhagat	pura	~3.0 K	m ESE		
		kund	al	~4.0 K	m	SW	
		There are	e appi	ox. 47 villa	ges in	10 km radius	
		study are	ea.				
	Latitude and Longitude	Point	L	atitude	Lo	ongitude	-
1V.	of all corners of the	1.	26°1	6'55.13"N	74°11	'25.59"E	
	project site	2.	26°1	6'59.37"N	74°11	'37.23"E	
		3.	26°1	6'59.48"N	74°11	'41.34"E	
		4.	26°1	6'58.26"N	74°11	'44.07"E	
		5.	26°1	6'56.06"N	74°11	'40.13"E	
		6.	26°1	6'51.57"N	74°11	'37.61"E	
		7.	26°1	6'51.49"N	74°11	'34.28"E	
		8.	26°1	6'49.00"N	74°11	'41.10"E	
		9.	26°1	6'41.83"N	74°11	137.13"E	
		10.	26°1	6'30.23"N	74°11	'28.69"E	
		11.	26°1	6'31.37"N	74°11	23.50"E	
		12.	26°1	6'34.62"N	74°11	19.26"E	
		13.	26°1	6'35.61"N	74°11	'14.42"E	
		14.	26°1	6'38.21"N	74°11	13.26"E	
		15.	26°1	6'46.99"N	74°11	14.98"E	
		16.	26°1	6'46.17"N	74°11	'29.94"E	

S. No.	Particulars			Details			Remarks
		17.	26°16'	49.95"N	74°11	'32.68"E	
		18.	26°16'	52.20"N	74°11	'29.94"E	
v.	Elevation of the project	367 m to	377 m	above me	an sea le	evel.	-
	site						
	Involvement of Forest	No Fores	st Land	is involve	d in the	project site.	-
vi.	land if any.						
	Water body (Rivers,	Project	site: No	o water bo	ody exis	ts within the	•
vii.	Lakes, Pond, Nala,	project s	ite.				
	Natural Drainage, Canal	Study a	rea: Fol	llowing w	ater bod	ly fall within	1
	etc.) exists within the	10 km ra	dius:				
	project site as well as	Water	body	Distance	e (km)	Direction	
	study area	Lilri Ri	ver	~1.0	km	NNW	
viii.	Existence of ESZ/	No Na	tional	Park, V	Vildlife	Sanctuary,	, –
	ESA/ national park/	Biospher	e Reser	ve & Tige	er/ Elepl	hant Reserve	e
	wildlife sanctuary/	exist wit	hin 10	km radius	s of the	project site.	
	biosphere reserve/ tiger	Therefor	e, NBW	L approv	al is not	applicable.	
	reserve/ elephant	List of	protect	ted & re	eserved	forests are	2
	reserve etc. if any	provided	below:				
	within the study area.	• Prote	ected I	Forest (3	5 km	in NNW	7
		direc	tion)				
		 Gopa 	lpura	Block PI	F (5.0	km in SE	Ξ
		direc	tion)				
		• Babr	a Giri	Block R	F (6.5	km in SSE	
		direc	tion)		(0 - -		
		• Salar	mal B	lock PF	(8.5 k	km in SSE	<u> </u>
		direc	tion)				

24.1.6 The unit configuration and capacity of proposed project is given as below:

S. No.	Plant Equipment / Facility	Proposed Units		
		Configuration	Capacity	
1.	Clinker	Kiln: 1 x 13500 TPD	4.5 Million TPA	
2.	Cement (OPC, SRC, RHPC, PPC, PSC & Composite Cement)	VRM: 1 x 13000 TPD	4.0 Million TPA	
3.	WHRS	PH & AQC Boiler (37.5 MW)	37.5 MW	

24.1.7 The details of the raw material requirement for the proposed project along with its source and mode of transportation is given as below:

S.	Raw Material	Quantity	Source	Distance	Mode of
No.		required per		from site	Transportation
		annum		(Kms)	
		(Million			
		TPA)			
1.	Limestone	6.75	Nimbeti Captive	Adjacent to	Conveyor belt
			Limestone Mine	the plant	
2.	Laterite or Lead	0.067	Laterite from Bhilwara,	~ 150 to 250	Rail and Road
	Zinc Slag		Lead zinc slag from	km	
			Chittorgarh (Raj) and other		
			nearby sources		
3.	Gypsum	0.28	Bikaner, Nagaur (Raj),	~ 150 to 800	Kandla Port, Rail
	(Mineral,		SCL Units, Gujarat, other	km	and Road
	Synthetic,		sources & Other countries	~ 680 km	
	Chemical &		(imported Gypsum)		
	Imported)				
4.	Fly ash	1.4	STPS, Suratgarh; KTPS	~ 2 to 500 km	Road
			Kota; Chabra and other		
			power plants and other		
			nearby sources		
5.	Slag	2.2	Nearby area	~ 100 to 1000	Rail and Road
				km	

- 24.1.8 The Water requirement for the proposed project is 530 m3/day, out of which 50 m3/day of water requirement (only for drinking purpose) will be obtained from the ground water and the remaining requirement of 480 m3/day will be met from the treated STP water from Nagar Parishad Beawar City and Mine Pit water of Captive limestone mine. MoU has been signed between Shree Cement Ltd. and Nagar Parishad Beawar on 20th May, 2022 for maximum 3.5 MLD of treated STP water from Beawar city and for ground water withdrawal permission / NOC application will be submitted to CGWA after receipt of EC Letter; as the project site falls in Over-exploited area and CTE is mandatory for filing application for ground water withdrawal.
- 24.1.9 The power requirement for the proposed project is estimated as 46.17 MW. Out of which 37.5 MW will be sourced from proposed WHRS and existing Thermal Power Plant of Shree Cement Limited situated near to the project site, State Power Grid and DG Sets (for emergency backup).

Period	Winter Season (Dec., 2020 to Feb., 2021)
AAQ	• $PM_{2.5}$ 27.6 to 50.8 μ g/m ³
parameters at	• PM_{10} - 58.0 to 91.5 $\mu g/m^3$
08 locations	• $SO_2 - 5.5$ to 17.3 $\mu g/m^3$
(min and max)	• NO ₂ - 13.6 to 29.8 μ g/m ³
	• $CO - 0.54$ to 1.19 mg/m ³

24.1.10 Baseline Environmental Studies:

Incremental	• PM = 1.29 μg/ι	m ³ (Level at 0.5 K	m in South direction	on)	
GLC level	• $SO_2 = 2.97 \ \mu g/m^3$ (Level at 2.0 Km in South direction)				
	• $NO_x = 3.54 \ \mu g/m^3$ (Level at 2.0 Km in South direction)				
	• $CO = 0.00013$	mg/m^3 (Level at 0.	230 Km in South	direction)	
Ground water	• pH - 7.06 to 7.3	88		,	
quality at 08	Total Hardness	s - 109.2 to 879.23	mg/l		
locations	• Chlorides - 118	8.86 to 1011.02 m	<u>ی</u> ۱		
	• Fluoride - 0.98	to 1.44 mg/l			
	• Heavy Metals	- Iron as Fe - 0.14	to 0.47 mg/l		
Surface water	• pH - 7.74				
quality at 01	• DO - 5.9 mg/l				
location (Mine	• BOD - 4.2 mg/l	l			
Pit)	• COD - 17.89 m	g/l			
Noise levels at	52.8 Leq dB (A) to 68	$\frac{C}{.9}$ Leq dB (A) for	the Day Time and	d 42.1 Leg d	B (A) to
08 location	59.8 Leq dB (A) for the	e Night time.	·		
Leq (day and					
Night)					
Traffic	• Traffic study has be	een conducted at I	NH-158 which is a	approximately	y 1.0 km
assessment	in NE direction a	nd Internal Road	connecting to N	VH – 158; v	which is
study findings	adjacent to plant sit	æ.			
	• Transportation of ra	aw material & fini	shed product will	be done as pe	er details
	given below:				
	✓ Limestone - via	a Covered Convey	or belt from Capti	ve Limestone	e Mine
	✓ Fly ash - 100%	by road			
	✓ Gypsum - 50%	by road & 50 % t	by rail		
	\checkmark Slag - 50 % by	road & 50 % by r	ail	•1	
	\checkmark Indian & Impo	rted Coal - 50 % b	by road & 50 % by 1.650	rail	
	✓ Indian & Impo	rted Petcoke - 50 y	% by road & 50 %	by rail	
	V Dolochar - 50 V	% by road & 50 %	by rail		
	• Dioiliass - 30%	by road & 50%	Uy Tall		
	• Evisting PCU is 33	88 24 PCU/br 0n 1	VH = 158 and 225	5 PCU/hr at	Internal
	Existing I CO is 5. Road connecting to	NH = 158 and exi	sting level of servi	$(I \cap S)$ is:	Internar
	Road	V	C	Existing	LOS
	Roud	(Volume in	(Capacity in	V/C	200
		PCU/hr.)	PCU/hr.)	Ratio	
	NH - 158	338.24	1200	0.28	В
	Internal Road 225.5 1200 0.21 B				
	connecting to NH –				
	158				
	• PCU load after p	proposed project	will be 338.24	(Existing) -	+ 421.3
	(Additional) PCU/ł	nr on NH-158 and	225.5 (Existing)	+ 338.7 (Ad	ditional)
	at Internal Road con	nnecting to NH –	158 and level of se	ervice (LOS)	will be:
	Road V	7	С	Proposed	LOS

		(Volume in	(Capacity in	V/C Ratio	
		PCU/hr.)	PCU/hr.)		
	NH - 158	338.24 (Existing)	1200	0.35	В
		+ 83.1			
		(Additional)			
	Internal Road	225.5 (Existing) +	1200	0.28	В
	connecting to NH	83.1 (Additional)			
	- 158				
	* Capacity as per IR	C- 64-1990 & 106-19	990 Guidelines.		
	Conclusion: The Le	evel of Service will b	e "Very Good"	for both NH	- 158 &
	Road connecting to	NH – 158 after inclu	ding additional t	raffic due to p	roposed
	project.				
Flora and	No Schedule - I species were recorded in the study area during field survey;				
fauna	according to (IWPA)) Indian Wildlife Prot	ection Act, 1972		

24.1.11 The details of solid and hazardous waste generation along with its mode of treatment/disposal is furnished as below:

S. No.	Type of Waste	Source	Quantity Generated	Mode of Treatment / Disposal
			(Approx.)	
1.	Dust	Cement Plant	1.076 TPA	Dust collected from various APCEs will be
				100% recycled back into the process.
2.	STP Sludge	STP	4 Kg/day	Will be used as manure in horticulture and
				greenbelt development.
3.	Bottles, paper, cans,	MSW	115 kg / day	Will be sold to registered recycler.
	textile, etc.			
	Kitchen and canteen/			Bio-degradable waste will be converted into
	Green waste			organic manure by installation of Organic
				Waste Converter (OWC) machine (Capacity:
				200 kg/day) and manure will be used for
				greenbelt development & plantation.
3.	Used Oil / Spent Oil	Plant	80 KL / annum	Used Oil / Spent Oil will be used in Kiln as
	(Cat 5.1)	maintenance		co-processing as per Schedule- I of
				Hazardous and Other Wastes (Management
				and Transboundary Movement) Rules, 2016.
	Grease & Waste		2.0 TPA	Grease & Waste residue (contaminated cotton
	residue (contaminated			rags) containing oil will be sold to the
	cotton rags) containing			RSPCB/ CPCB authorized recyclers.
	oil (Cat 5.2)			
	Used Lead acid		50 no's / annum	Will be stored in the designated storage area
	batteries			and will be disposed-off/ sold to registered
				vendors as per Battery Waste Management
				Rules 2020.
	E-waste		0.10 TPA	E-waste will be sold to registered vendors as
				per E- Waste Management Rules, 2016.

Details of advertisement given	Public Hearing Notice published in Newspapers "The Times of					
	India" and "Rajasthan Patrika" on 06 th July, 2022.					
Date of Public Consultation	8 th August, 2022 (Monday) at 11:00 AM					
Venue	Modal Play Ground, Sr. Sec. School, Bhivgarh, Tehsil: Jaitaran,					
	District: Pali (Rajasthan)					
Presiding Officer	Additional District Collector, Pali					
Major issues raised	Employment Related, Environment & pollution Related, Land					
	Related, Socio-Economic Related, Health Related, Water Related,					
	Plantation Related, Crop Related etc.					

Table: Action plan as per MoEF&CC O.M. F.No. 22-65/2017-IA.III dated 30/09/2020

	Concerns	Dharstool	Unit of Measurement						Tantatina
S.	raised during	Physical activity to be	1 st Ye	ar	2 nd Ye	ear	3 rd Ye	ear	I entative Budget (Rs in
No.	the Public	done	Location /	Budget	Location /	Budget	Location /	Budget	lacs)
	Hearing		Area	in Lacs	Area	in Lacs	Area	in Lacs	,
1	Skill Development	Establishment of Skill Development Centre for providing short duration programs for umemployed youth in the field of domestic electrician, plumber, motor mechanic etc.	01 Centre at Village Ras to cover 7 nearby Villages (Ras, Paliyawas, Roopnagar, Kesarpura, Nimbeti, Ganeshpura & Jawangarh)	183	01 Centre at Villages Babra to cover nearby 6 Villages (Babra, Patan, Nayagaon, Devgarh, Pratapgarh & Ramgarh)	153	01 Centre at Village Butiwas/ Pratapgarh to cover nearby 5 Villages (Butiwas, Bagatpura, Pratapgarh, Ramawas & Kundal)	137	473
	Rural Infrastructure Development	Construction of Community Centers	02 Nos (Villages Jawangarh & Bhivgarh)	61	02 No. (Village Nimbeti & Butiwas)	61	02 No. (Bagatpura & Ras)	61	183
2		Repair / Restoring the Village Pathways/Road	02 No. (Village Nimbeti & Butiwas)	183	02 Nos (Villages Jawangarh & Bhivgarh)	183	01 No. (Village Ras & Bagatpura)	92	458
		Development of playgrounds	01 Nos Village Babra	61	01 No. (Village Devgarh)	61	01 No. (Village Butiwas)	61	183
		Installation of Solar lights	03 Nos (Villages Jawangarh, Bagatpura & Bhivgarh)	31	03 No. (Village Nimbeti, Devgarh & Butiwas)	31	02 No. (Village Ras & Babra)	31	92

	Concerns								
S.	raised during	Physical activity to be	1 st Yea	ar	2 nd Year		3 rd Y	ear	I entative Pudget (Dg. in
No.	the Public	done	Location /	Budget	Location /	Budget	Location /	Budget	lacs)
	Hearing	uone	Area	in Lacs	Area	in Lacs	Area	in Lacs	iacs)
		Providing seeds and organizing training camps for improvement of agri - crop yield & social forestry	03 No. (Village Ras, Bagatpura & Butiwas)	46	03 Nos (Babra, Devgarh & Jagtiya)	46	03 Nos (Kolpura, Bhivgarh & Roopnagar)	46	137
3	Ground Water Conservation	 Restoration of Water ponds / percolation tanks by deslilting, clearing the water paths etc., 2. Renovation and maintainence of the existing check dams 	03 No. (Village Ras, Paliyawas, Roopnagar)	61	03 Nos (Villages Bagatpura, Butiwas, Devgarh)	61	03 No. (Village Pratapgarh, Patan, Babra)	61	183
		Rain water harvesting on Buildings of Govt. School/ Panchayat/ Health centres etc.	03 No. (Village Ras, Babra, Bagatpura)	46	02 Nos (Giri & Butiwas)	31	02 Nos (Bhivgarh & Pratapgarh)	31	107
4	Safe Drinking Water	Installation of Water huts with Water Coolers and construction of water tanks, drinking water structures for animals to provide safe drinking water at community places	03 No. (Village Ras, Bagatpura & Butiwas)	46	03 Nos (Babra, Devgarh & Patan)	46	03 Nos (Bhivgarh, Pratapgarh & Paliyawas)	46	137
5	Education	Construction of classrooms in govt. schools	02 Nos (Village Bhivgarh & Ras)	61	03 Nos (Villages Butiwas, Babra & Jawangarh)	92	03 Nos (Village Pratapgarh, Devgarh & Bagatpura)	92	244

	Concerns	Dharataal	Unit of Measurement						Tontativo	
S.	raised during	Physical activity to be	1 st Yea	ar	2 nd Ye	ear	3 rd Ye	ear	I entative Pudget (Dg in	
No.	the Public	dono	Location /	Budget	Location /	Budget	Location /	Budget	Duuget (KS. III	
	Hearing	uone	Area	in Lacs	Area	in Lacs	Area	in Lacs	lacs)	
		Computer Training Program will be organised to train the rural student of nearby villages and 20 computers will be provided to schools of nearby villages	01 Nos (Village Ras)	31	01 Centre (Village Bhivgarh)	31	01 Centre (Jawangarh)	31	92	
		Installation of facility for Smart classes in the Government schools to promote Digital education	02 Nos (Villages Ras & Babra)	12	02 Nos (Village Butiwas & Paliyawas)	12	02 Nos (Village Pratapgarh & Patan)	12	37	
		Organizing Medical Health Camps with facilities of Mobile Medical Van (Medicine & Checkup)	02 Nos (Villages Ras & Babra)	21	02 Nos (Village Butiwas & Paliyawas)	18	02 Nos (Village Pratapgarh & Patan)	21	61	
		Construction / Renovation of Community Health Centres	01 Nos (Village Ras)	27	02 Nos (Villages Babra & Devgarh)	55	01 Nos (Butiwas)	24	107	
6	Health	Provide medical investigating equipment and need based support Material set	01 Nos (Village Ras)	15	02 Nos (Villages Babra & Devgarh)	31	01 Nos (Butiwas)	15	61	
		Construction of male & female toilet blocks at Schools	02 No. (Village Ras & Butiwas)	31	01 No. (Village Paliyawas)	31	02 Nos (Devgarh & Pratapgarh)	31	92	
		Preventive health programme for women & Children	02 No. (Village Ras & Bhagatpura)	21	01 No. (Village Jawangarh)	12	02 Nos (Bhivgarh & Butiwas)	21	55	

	Concerns	Dhysical	Unit of Measurement						Tontotivo
S.	raised during	Pilysical activity to be	1 st Ye	ar	2 nd Ye	2 nd Year		ear	Budget (Bs. in
No.	the Public	done	Location /	Budget	Location /	Budget	Location /	Budget	lacs)
	Hearing	uone	Area	in Lacs	Area	in Lacs	Area	in Lacs	Me (5)
7	Plantation	Plantation & Distribution of Plants in nearby villages along the roads, Govt. Offices and available free space	03 No. Ras, Paliyawas & Bagatpura	45	03 No. Babra, Butiwas & Devgarh	30	03 No. Patan, Pratapgarh & Kolpura	30	105
Sub Total				952		967		827	2804
Total								2804	
Note	Note:								

Villages can be interchanged as per situation demand. Activities may be changed as per situation and community requirement.

24.1.13 The capital cost of the proposed project is Rs. 1872 Crores & the capital cost for environmental protection measures is proposed as Rs. 53.94 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs. 2.42 Crores/ annum. The employment generation from the proposed project is 770 people. The details of cost for environment protection measures are as follows:

		Proposed (Rs.	In Crores/ lakhs)
Sr. No.	Description of item	Capital Cost in	Recurring Cost in
		Rs. Lakhs	Rs. Lakhs
	Pollution Control during construction stage		
1	(Dust suppression, Wastewater treatment and Disposal,	150.00	7.50
	Roads, Monitoring, Muck disposal)		
	Air Pollution Control		
2	Air Pollution Control Equipment	4000.00	150.00
2	Sweeping Vacuum machines (1 Large & 2 Small)	100.00	4.00
	2 Water Tanker (with Tractor)	25.00	1.50
	Environmental Monitoring		
	CAAQM Stations (3 online each Rs. 50 Lakhs)	150.00	7.50
3	CEMS (3 Online)	60.00	7.50
	3 RDS/FPS	6.00	1.00
	Env. Laboratory	50.00	8.00
	Water Pollution Control		
	STP of 50 KLD Capacity (including Drains)	80.00	10.00
4	Water Treatment Plant (Capacity 1 MLD)	350.00	10.00
	2 AWLR for water level measurement	5.00	0.50
	RO Plant	50.00	5.00
5	Noise Pollution Control	10.00	1.00
6	Occupational Health & Safety	75.00	5.00
7	Greenbelt and plantation (11.74 ha = 29350	88.00	9.00

		Proposed (Rs. In Crores/ lakhs)		
Sr. No.	Description of item	Capital Cost in	Recurring Cost in	
		Rs. Lakhs	Rs. Lakhs	
	Saplings)			
	Drip irrigation System & Water Sprinkling	10.00	2.50	
8	RWH pond and Storm Water Management	100.00	3.50	
9	Organic Waste Converter & Its Facilities	10.00	3.50	
10	Others (Housekeeping and Municipal waste	75.00	5.00	
10	management)	75.00	5.00	
	Sub Total	5394.00	242.00	

24.1.14 Proposed greenbelt will be developed in 11.94 ha which is about 37% of the total project area. Greenbelt of 25 m wide in northern and southern sides, all along the periphery of plant boundary to create barrier between the plant and agricultural fields and 200 m wide greenbelt towards Village Jawangarh will be developed. Local and native species will be planted with a density of 2500 tree per hectare. Total no. of 29,850 saplings will be planted and nurtured in 11.94 ha in 3 years. At present, 2700 saplings in 1.08 ha. area have already been planted along the project boundary.

S. No.	Year as per	Area Covered	No. of	Location in Plant area
	planning	under greenbelt	Saplings	
		(Hectare)	(Nos.)	
1.	Existing	1.08	2700	25 m wide greenbelt along the Project
				Boundary
2.	1 st Year	1.90	4750	25 m wide greenbelt along the Project
				Boundary
		1.72	4300	200 m wide greenbelt towards village
				Jawangarh
S	ub Total	3.62	9050	
3.	2 nd Year	1.89	4725	Internal roads, Machinery area, CCR
				Office
		1.73	4325	200 m wide greenbelt towards village
				Jawangarh
S	ub Total	3.62	9050	
4.	3 rd Year	1.89	4725	Packing Plant area and Raw Material
				Storage area, other plant area and gap
				filling in the plant area
		1.73	4325	200 m wide greenbelt towards village
				Jawangarh
S	ub Total	3.62	9050	-
Gr	and Total	11.94	29,850	-
Note: (Out of the total	greenbelt area of 11.9	94 ha.; 5.18 ha.	area with 12,950 no. of saplings will be
planted	towards village	Jawangarh having 20	0 m width.	

Action Plan for development of Avenue Plantation along the roads

S. No.	Year as per planning	Road Length under plantation (km)	Total length covered along both the road side (km)	No. of Saplings (Nos.)	Location in Plantation area	Plant Species to be Planted	Cost (Rs. 300 per plant including Tree guard & Maintenance)	
1.	1 st Year	1	3	300	All along the	Neem (Azadirachta	90000	
2.	2 nd Year			300	Road Boundary from Plant to Bhivgarh Chauraha	indica), Gulmohar (Delonix regia), Yellow Gulmohar (Peltophorum pterocarpum), Shisham (Dalbergia sissoo), Karanj (Pongamia pinnata), Amaltas (Cassia fistula)	90000	
	Total	1	3	600			1,80,000	
Note: road f	Note: 5 meter distance will be maintained among each sapling for avenue plantation in 1 km length connecting oad from main gate to existing road (Bhivgarh Chauraha).							

24.1.15 It has been reported by PP that, there is no violation under EIA Notification, 2006/court case/show cause/direction related to the project under consideration.

Written representations:

24.1.16 During the meeting, based on the deliberations made by the EAC, the project proponent vide letter dated 28.02.2023 through email dated 28.02.2023 submitted the following information:

S. No.	Additional Observations /	Reply
	ADS Point of EAC	
1.	PP should submit the inversion level of the site	The inversion levels used in Air modeling is submitted by the project proponent.
	used in Air modeling.	
2.	PP should increase the Cost of Action Plan for socio-economic development including PH commitments 1.5% of the expansion project cost.	PP has revised and detailed out the plan for for socio-economic development including PH commitments equal to 1.5% (i.e. 28 Crores) of the project cost (i.e. 1872 Crores). The detailed plan of for socio-economic development including PH commitments is updated at para 24.1.12 above.
3.	PP should submit the details of CGWA	Since the area falls in over exploited area as per CGWA. Therefore, PP has proposed to obtain permission to abstract the ground water for

S. No.	Additional Observations /	Reply				
	ADS Point of EAC					
	application showing the requirement of Consent for process the application.	domestic requirements of the project. Whereas, the industrial requirement will be fulfill by the STP treated water from Beawar Town and Mines Pit of existing limestone mines of applicant company located near to site.				
		PP has tried to submit the CGWA application, to comply the ToR condition of CGWA permission but unable to process the CGWA application as, in overexploited area, the Consent to Establish is the mandatory requirement. The relevant documents are submitted. Whereas, the CGWA application for ground water will be applied after obtain Environment Clearance and Consent for the project.				
4.	PP should submit the justification for only one surface water sampling location selection in EIA Study.	The baseline study was done during winter season from Dec. 2020 to Feb. 2021. Lilri Seasonal River exists (~1.0 km in NNW direction) within 10 km radius from the project site, which was found dry during EIA study period. Thus, Surface water samples could not be collected from the Lilri river as same was seasonal and was found dry during the study period.				
		Apart from Lilri River, the surface water sample from mine pit of Nimbeti Mines was collected and incorporated in the EIA Report. SCL assures for periodic sampling & analysis of Lilri River during and post- monsoon, when surface water will be available.				
5.	PP should submit the reply of observations/ recommendations of sub- committee after site visit.	There was one specific observations/ recommendations of sub- committee after site visit i.e. "The project proponent shall plan for development of 50 m wide greenbelt in northern and southern sides to create barrier between plant and agricultural fields."				
		Same was further modified during ToR amendment "The project				
		proponent shall plan for development of 25 m wide greenbelt in				
		northern and southern sides to create barrier between plant and agricultural fields "				
		After following justification and detailed discussions during ToR				
		amendment meeting held on 28.09.2021 i.e. Due to unavailability of				
		land & difficulty in re-orientation of plant machinery, PP has reduced				
		the width of plantation from 50 m to 25 m wide greenbelt in northern				
		and southern sides to create barrier between plant and agricultural fields. However, SCL assure that they will create a thick harrier of				
		plantation as greenbelt with more number & density of trees in this				
		area. Avenue plantation along the roads will also be developed. The				
		details of greenbelt development plan along with avenue plantation are				
		updated at para 24.1.14 above.				

Deliberations by the Committee

24.1.17 The Committee noted the following:

- The instant proposal is for setting up of a new Integrated Cement Plant {Clinker 4.5 Million TPA; Cement - 4.0 Million TPA (OPC, PPC, PSC, RHPC, SRC & Composite Cement); WHRS - 37.5 MW and D.G. Sets - 2500 KVA (2 x 1000 KVA & 1 x 500 KVA) or (1 x 1000 KVA, 2 x 500 KVA & 2 x 250 KVA)}.
- 2. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.
- 3. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.
- 4. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.
- 5. Total land required for the project is 32.27 ha (79.73 acres), out of which, 79.19 acres (i.e., 99.32%) land is under possession of Shree Cement Limited and balance 0.54 acres (i.e., 0.68%) land acquisition is under process. Out of total land area; 21.62 ha (53.42 acres) land has been converted into industrial purpose and 10.65 ha (26.31 acres) is agricultural land.
- The nearest habitation to plant are Jawangarh (~0.1 Km, North), Khera (~1.0 Km, East), Nimbeti (~2.0 Km,WNW), Ras (~2.5 Km, North), Bhivgarh (~2.5 Km, SSE), Bhagatpura (~3.0 Km, ESE) and Kundal (~4.0 Km, SW). There are approx. 47 villages in 10 km radius study area.
- 7. Lilri River flows at a distance of 1 km in the NNW direction from the project site. The EAC is of the opinion that water body shall not be disturbed. Mitigation measures w.r.t. safeguarding the water body shall be implemented.
- 8. The water requirement is 530 m³/day, out of which 50 m³/day (only for drinking purpose) will be obtained from the ground water and the remaining requirement of 480 m³/day will be met from the treated STP water from Nagar Parishad Beawar City and Mine Pit water of Captive limestone mine.
- 9. Proposed greenbelt will be developed in 11.94 ha which is about 37% of the total project area. Greenbelt of 25 m wide in northern and southern sides, all along the periphery of plant boundary to create barrier between the plant and agricultural fields and 200 m wide greenbelt towards Village Jawangarh will be developed. Local and native species will be planted with a density of 2500 tree per hectare. Total no. of 29,850 saplings will be planted and nurtured in 11.94 ha in 3 years. At present, 2700 saplings in 1.08 ha. area have already been planted along the project boundary. The committee deliberated on the

greenbelt development plan and the avenue plantation as submitted and found it satisfactory.

- 10. The Committee has found that the baseline data and incremental GLC due to the proposed project within NAAQ standards.
- 11. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
- 12. The Committee also deliberated on the public hearing issues along with revised action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.
- 13. The Committee deliberated upon the written submission of the Project Proponent and found it satisfactory.
- 14. The Committee also took into account the site visit undertaken by the sub-committee at the time of ToR and the recommendations of then sub-committee/committee alongwith the amendments granted in TOR.
- 15. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.
- 16. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

Recommendations of the Committee

24.1.18 In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal for grant of Environment Clearance **subject to uploading the written information** on Parivsh portal under the provisions of EIA Notification, 2006 subject to stipulation of following specific conditions and general conditions as per the Ministry's Office Memorandum No. 22-34/2018-III dated 9/8/2018 based on project specific requirements:

A. Specific conditions:

(i) The PP shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.

- (ii) The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
- (iii) The nearest habitation to plant are Jawangarh (~0.1 Km, North), Khera (~1.0 Km, East), Nimbeti (~2.0 Km,WNW), Ras (~2.5 Km, North), Bhivgarh (~2.5 Km, SSE), Bhagatpura (~3.0 Km, ESE) and Kundal (~4.0 Km, SW). There are approx. 47 villages in 10 km radius study area. Project Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The PP shall also include some of these locations in its environmental monitoring programme.
- (iv) The total land involved in the proposed project i.e. 32.27 ha shall be acquired and necessary permission shall be obtained pertaining to conversion of land for industrial purpose use prior to commencement of project.
- (v) Lilri River flows at a distance of 1 km in the NNW direction from the project site. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
- (vi) As committed, PP shall adopt villages and formulate Village Adoption program consisting of need-based community development activities, to develop them into model villages.
- (vii) In surrounding villages, efforts should be made to improve agri-crop yield and social forestry.
- (viii) The water requirement for the proposed project of 530 m³/day [50 m³/day for drinking purpose from the ground water] and the remaining requirement of 480 m³/day shall be met from the treated STP water from Nagar Parishad Beawar City and Mine Pit water of Captive limestone mine. Necessary permissions shall be obtained from the Competent Authority in this regard. PP shall explore the possibility of shifting to alternate source of water for drinking purpose to reduce dependency on groundwater.
 - (ix) Three tier Green Belt shall be developed with majority in the 1st year covering at least 37% of the total project area as per the submitted plan with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall develop avenue plantation as per the submitted plan. PP shall also develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards the villages namely Jawangarh (~0.1 Km, North), Khera (~1.0 Km, East), Nimbeti (~2.0 Km,WNW), Ras (~2.5 Km, North), Bhivgarh (~2.5 Km, SSE), Bhagatpura (~3.0 Km, ESE) and Kundal (~4.0 Km, SW) and in northern and southern sides to create barrier between plant and agricultural fields. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
 - (x) Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

- (xi) The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. MSW waste shall be treated in digester and recovered gas shall be used in the canteen. Process effluent/ any wastewater shall not be allowed to mix with storm water.
- (xii) The PP shall also undertake rain water harvesting measures as per the plan submitted in the EIA/EMP report and reduce water dependence from the outside source.
- (xiii) All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains to trap the run off material.
- (xiv) All internal and connecting road to the Highway shall be black topped/ concreted with suitable load in term of Million Standard Axle (MSA) as per IRC guidelines.
- (xv) Performance monitoring of pollution control equipment shall be taken up yearly and compliance status in this regard shall be reported to the concerned Regional Office of the MoEF&CC.
- (xvi) Dioxin and furans shall be monitored twice a year during co-processing of hazardous waste and report shall be submitted to the Regional Office of the MoEF&CC.
- (xvii) Particulate matter emissions from all the stacks shall be less than 30 mg/Nm³.
- (xviii) DeSOx system shall be provided dry type. NOx level shall be maintained below 600 mg/Nm³ by using best available technology.
 - (xix) Petcoke dosing shall be controlled automatically to control SO₂ emission from chimney within the prescribed limits.
 - (xx) PP shall identify the Source of fluoride emissions and action plan to mitigate the same shall be implemented.
 - (xxi) The PP shall measure the water level of all water bodies in the vicinity in a periodic manner (once in 6 months) and submit the report to IRO, MoEFCC.
- (xxii) A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
- (xxiii) Topsoil removed during construction phase should be managed scientifically with the objective of conservation, and earliest and continuous reuse.
 - (xxiv) Action Plan for fire-fighting system including provision for flame detectors, temperature actuated heat detectors with alarms, automatic sprinkler system, fixing the location of fire water tanks, separate power system for fire-fighting, involvement of qualified and trained fire personnel, nearest fire station & time required to reach the proposed site shall be prepared and implemented.
 - (xxv) All the recommendations made in the risk assessment report shall be implemented and compliance status in this regard shall be furnished to the Regional Office of the MoEF&CC along with the six monthly compliance report.
 - (xxvi) All the commitments made to the public during the Public Hearing/Public Consultation shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.

- (xxvii) The PP shall construct a Wind shield/ Acoustic barrier besides three rows of tall thick, broad leaved evergreen tree species in order to protect the school children and villagers from dust and noise pollution.
- (xxviii) The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.
 - (xxix) The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere. Storage of raw materials shall be either in silos or in covered areas to prevent dust pollution and other fugitive emissions.

B. General conditions

I. Statutory compliance:

i. The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25thAugust, 2014 (Cement) and subsequent amendment dated 9thMay, 2016 (Cement) and 10th May, 2016 (in case of Co-processing Cement); as amended from time to time; and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.

- iii. The project proponent shall install system carryout to Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120°each), covering upwind and downwind directions.
- iv. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
- vi. The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.
- vii. Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.
- viii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
 - ix. Ensure covered transportation and conveying of raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash.
 - x. Provide wind shelter fence and chemical spraying on the raw material stock piles; and
 - xi. Provide Low NOX burners as primary measures and SCR /NSCR technologies as secondary measure to control NOX emissions.
- xii. Have separate truck parking area and monitor vehicular emissions at regular interval.
- xiii. Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by the use of covered conveyor belts/railways as a mode of transport
- xiv. Ventilation system shall be designed for adequate air changes as per ACGIH document for all tunnels, motor houses, cement bagging plants.

III. Water quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25thAugust, 2014 (Cement) and subsequent amendment dated 9thMay, 2016 (Cement) and 10th May, 2016 (in case of Co-processing Cement) as amended from time to time; and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall regularly monitor ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- iii. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.

- iv. Garland drains and collection pits shall be provided for each stock pile to arrest the runoff in the event of heavy rains and to check the water pollution due to surface run off
- v. Water meters shall be provided at the inlet to all unit processes in the cement plant.
- vi. The project proponent shall make efforts to minimize water consumption in the cement plant complex by segregation of used water, practicing cascade use and by recycling treated water.

IV. Noise monitoring and prevention

- i. Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

V. Energy Conservation measures

- i. Waste heat recovery system shall be provided for kiln and cooler.
- ii. The project proponent makes efforts to achieve power consumption less than 65 units/ton for Portland Pozzolona Cement (PPC) and 85 units/ton for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker.
- iii. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.
- iv. Provide the project proponent for LED lights in their offices and residential areas.

VI. Waste management

i. Used refractories shall be recycled as far as possible.

VII. Green Belt

- i. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration by trees in the plant premises.
- Project proponent shall submit a study report within six months on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitorable with defined time frames.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.

iii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

IX. Environment Management

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
- ii. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.

X. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.

- vii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- ix. The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.
- x. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xi. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiv. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xv. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Agenda No. 24.2

24.2 Establishment of Sponge Iron unit (2,25,000 TPA), Induction Furnace with matching LRF & CCM (Billets / Ingots / Hot Billets) (2,40,000 TPA), Rolling Mill (TMT Bars / Structural Steel) (2,25,000 TPA), Brick manufacturing unit – 25,000 bricks/day, WHRB based Power Plant – 18 MW (3 x 6 MW), AFBC based Power Plant - 6 MW by M/s ITECHC Metals Private Limited, located at at Khasra. No.s 587/1, 587/6, 587/10, 587/14,

597/1, 597/3, 598, 599, 600, 612, 613/1 & 613/2, Village: Chicholi, Tehsil: Kharora, District: Raipur, Chhattisgarh- Consideration of Environmental Clearance.

[Proposal No IA/CG/IND1/413664/2023; File No. IA/J-11011/290/2021-IA-II (I)] [Consultant: Pioneer Enviro Laboratories & Consultants Pvt. Ltd.; Valid upto 11.03.2023]

- 24.2.1 M/s. ITECHC Metals Private Limited has made an online application vide proposal no. IA/CG/IND1/413664/2023 dated 06.02.2023 along with copy of EIA/EMP report, CAF & Form 1 (Part A, B & C) seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed S.No.3 (a) Metallurgical industries and 1(d) Thermal Power Plants under category "A" of the schedule of EIA Notification 2006 and appraised at the central level.
- 24.2.2 Name of the EIA consultant: M/s Pioneer Enviro Laboratories & Consultants Pvt. Ltd. [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/1922/SA 0148; valid upto 11.03.2023, as on February 27, 2023].

Details submitted by Project proponent

24.2.3	The details of the ToR are furnished as below:

Date of Application	Consideration	Details	Date of Accord	ToR Validity
07 Aug 2021	43 rd EAC held during	Terms of	13.09.2021	12.09.2025
	26 th Aug , 2021 To 26 th	references		
	Aug, 2021			

24.2.4 The project of M/s. ITECHC Metals Private Limited is located at Khasra nos. 587/1, 587/6, 587/10, 587/14, 597/1, 597/3, 598, 599, 600, 612, 613/1& 613/2 of Chicholi Village, Kharora Tehsil, Raipur District, Chhattisgarh is for setting up of a new steel plant for production of 0.225 Million Tons Per Annum (MTPA) of TMT bars / Structural Steel.

24.2.5 Environmental Site Setting	gs:
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S.No.	Particulars	Details	Remarks
1.	Total land	Total land 12.19 Ha (30.12 Acres)	
		11.346Ha. (28.035 Acres). [Private land]	
		0.843Ha. (2.083 Acres). [Govt. Land]	
2.	Land acquisition	◆ Private land – 11.346 Ha.(28.035 Ac.). Entire Private	
	details as per	land has been registered in the company name and	
	MoEF&CC O.M.	entire land has been diverted for industrial purpose.	
	dated 7/10/2014	♦ Govt. land – 0.843 Ha.(2.083 Acres.). Lease	
		application for 99 years period is under progress.	
3.	Existence of	Project site: No habitation exists in the plant site.	
	habitation &	Hence R&R not applicable.	
	involvement of R&R,	Study Area	

S.No.	Particulars	Details				Remarks
	if any.	Nearest habitation				
		Habitation	Distance	Direction		
		Gaurkhera	0.85Kms.	North		
4.	Latitude and	The Coordinates	of the proje	ct site are foll	owing	
	Longitude of the	Point		Coordinates	5	
	project site	Point # 1 2	21°27'44.27	"'N 81° 52' 16	.93"E	
		Point # 2 2	21°27'41.51	"N 81° 52' 21	.95"E	
		Point # 3	21°27'42.39	"N 81° 52' 23	.94"E	
		Point # 4	21°27'44.43	5"N 81° 52' 24	.05"E	
		Point # 5	21°27'45.59	"N 81° 52' 22	.23"E	
		Point # 6	21°27'45.59	"N 81° 52' 26	.53"E	
		Point # 7 2	21°27'46.75	5"N 81° 52' 26	.87"E	
		Point # 8	21°27'41.40)"N 81° 52' 28	.91"E	
		Point # 9	21°27'41.84	"N 81° 52' 30	.34"E	
		Point # 10 2	21°27'43.66	5"N 81° 52' 29	.79"E	
		Point # 11 2	21°27'44.49	"N 81° 52' 33	.21"E	
		Point # 12 2	21°27'47.52	2"N81° 52' 33.	66"E	
		Point # 13 2	21°27'49.12	2"N 81° 52' 33	.44"E	
		Point #14 2	21°27'48.96	5"N 81° 52' 32	.00"E	
		Point # 15 2	21°27'51.94	"N 81° 52' 31	.78"E	
		Point # 16 2	21°27' 55.59	9"N 81° 52' 2	1.6"E	
5.	Elevation of the	224 to 231 m AM	ISL			
	project site					
6.	Involvement of	Not applicable a	as no Fore	st land is in	volved in the	
	Forest Land, if any	project site.				
7.	Water body exists	Project Site :Nil				
	within the project site					
	as well as study area	Study area:		1		
		Water Body	y D	istance	Direction	
		Jamuniya Nala	1.	.2 Kms	W	•
		Mahanadi Bra	anch 4.	.8 Kms	SW	
		canal				
		Kirna Tank	7.	.7 Kms	Ŵ	
		Pindraon Pond	4.	8 Kms.	S	
		Kumhari Pond	2.	8 Kms.	NE	
8.	Existence of ESZ /	Nil				
	ESA / National Park /			1.6		
	Wildlife Sanctuary /	List of Reserved a	and protecte	ed torests:		
	Biosphere Reserve /	Name		istance	Direction	
	11ger Keserve Flaphort Description	Mohrenga PF		.5 kms	S	
	Elephant Reserve etc.	Khaulidabri P	F 3.	.0 Kms	SE	
	11 any within the					

S.No.	Particulars	Details	Remarks
	study area		

24.2.6 The unit configuration and capacity of proposed project is given as below:

S.No.	Units	(Products)	Plant Configuration	Production Capacity
1.	DRI Kilns		3 x 250 TPD	2,25,000 TPA
	(Sponge Iron)			
2.	Induction Furna	ice	4 x 20 T	2,40,000 TPA
	(Hot Billets / B	illets / Ingots)		
3.	Rolling Mill		750 TPD	2,25,000 TPA
	(TMT bars / Stu	ructural Steel)		
	(85 % Hot c	harging with Hot		
	Billets and	remaining 15%		
	through RHF w	ith LDO as fuel)		
4.	Brick manufact	uring unit	25,000 bricks/day	7.5 Million bricks/annum
5.	Power Plant WHRB Power		3 x 6 MW	18 MW
	(24 MW) Plant			
		FBC Power Plant	1 x 6 MW	6 MW

24.2.7 The details of the raw material requirement for the proposed project along with its source and mode of transportation is given as below:

S.No.	Raw	Material	Quantity (TPA)	Sources	Distance from site (in Kms.	Mode of Transport			
1.	For DRI Kilns (Sponge Iron) – 2,25,000 TPA								
a)) Pellets (100 %)		3,37,500	purchased from outside	~ 50 Kms	Through covered conveyers & By road (through covered trucks)			
	(OR)								
b)	Iron ore	(100%)	3,60,000	Barbil, Orissa NMDC, Chhattisgarh	~ 500 Kms.	By rail & road (through covered trucks)			
		Indian	2,92,500	SECL Chhattisgarh / MCL Odisha	~ 500 Kms.	By rail & road (through covered trucks)			
c)	Coal			(OR)					
	c)		Imported	1,87,200	Indonesia / South Africa / Australia	~ 600 Kms. (from Vizag Port)	Through sea route, rail route & by road (through covered trucks)		

S.No.	Raw M	laterial	Quantity (TPA)	Sources	Distance from site (in Kms.	Mode of Transport	
d)	Dolomite		11,250	Chhattisgarh	~ 100 Kms.	By road (through covered trucks)	
2.	For Steel N	Aelting Sho	p (Hot Billets/ Bi	llets /Ingots) – 2,4	0,000 TPA		
a)			-	Own			
	Sponge Iro	n	2,42,000	generation& purchased from outside	~ 20 Kms.	Through covered conveyers& by road	
b)	MS Scrap / Pig Iron		36,000	Chhattisgarh	~ 100 Kms.	By road (through covered trucks)	
c)	Ferro alloy	s	12,000	Raipur	~ 50 Kms.	By road (through covered trucks)	
3.	For Rollin	g Mill throu	igh Hot charging	(TMT bars/Struc	tural steel) – 2,25	5,000 TPA	
a)	Hot Billets	/ Billets /	2,40,800	Own generation	~ 20 Kms.	By Road	
	Ingots			&purchased		(through covered	
				from outside		trucks)	
b)	b) LDO / LSHS		1,500	Nearby IOCL	~ 100 Kms	By road	
			Kl/annum	Depot	100 11115.	(through Tankers)	
4.	For FBC Boiler [Power Generation 6 MW]						
a)			40,500	SECL	~ 500 Kms.	By rail & road	
	Indian Coa	l (100 %)		Chhattisgarh /		(through covered	
				MCL Odisha		trucks)	
1-)			25.061		(00 V	T1	
D)	Immented C		25,961	Indonesia /	~ 600 Kms.	I nrougn sea route,	
	(100%)	oai		South Africa /	(Irom vizag	(through covered	
	(100 %)			Australia	POIL)	(unough covered	
				OR		uucks)	
c)	Dolochar	Dolochar		In plant		through covered	
	+	2 010 chui	45,000	generation		convevors	
	Indian	Indian		SECL	~ 500 Kms.	By rail & road	
	Coal	Coal	18,000	Chhattisgarh /		(through covered	
			,	MCL Odisha		trucks)	
		1		OR	1	· · · · · · · · · · · · · · · · · · ·	
d)	Dolochar	Dolochar	45 000	In plant		through covered	
	+		45,000	generation		conveyors	
	Imported	Imported		Indonesia /	~ 600 Kms.	Through sea route,	
	Coal	Coal	11 520	South Africa /	(from Vizag	rail route & by road	
			11,320	Australia	Port)	(through covered	
						trucks)	

- 24.2.8 Water requirement for proposed project is estimated as 1130 KLD and same will be sourced from Kumhari tank, which is at distance of 2.8 Kms. State Investment Promotion Board, Chhattisgarh has forwarded recommendations to Water Resources Department for issuing approval for withdrawing water from Kumhari tank vide letter no. 985/SIPB/2021/728 dt. 6th August 2021. MOU has been signed between Govt. of Chhattisgarh and ItechC Metals Pvt. Ltd. for implementation of the steel plant. All necessary approvals will be accorded by state govt. expeditiously through State Investment Promotion Board (SIPB) including water drawl permission.
- 24.2.9 The total power requirement for the proposed project will be about 33.7 MW, this will be partly met from the Captive power plant of 24 MW & Remaining 9.7 MW will be sourced from the state grid.

Period	1 st March 2021 to 31 st May 2021			
AAQ parameters at 8	$PM_{2.5} = 20.6 \text{ to } 46.2 \ \mu g/m^3$			
locations	$PM_{10} = 34.6 \text{ to } 69.8 \ \mu g/m^3$			
	$SO_2 = 10.8$ to 14.5 $\mu g/m^3$			
	$NO_x = 12.4 \text{ to } 20.4 \ \mu g/m^3$			
	$CO = 425 \text{ to } 815 \mu\text{g/m}^3$			
AAQ modelling	Incremental GLCs due to the proposed project:			
	$PM_{10} = 0.8 \ \mu g/m^3$ (1000 m NE); $PM_{10} = 0.2 \ \mu g/m^3$ (Vehicular)			
	$SO_2 = 14.8 \ \mu g/m^3 (1200 \ m \ in \ NE)$			
	$NO_2 = 5.1 \ \mu g/m^3 (1100 \ m \ in \ NE) \ NO_2 (vehicular) = 1.5 \ \mu g/m^3$			
	CO (vehicular) = $0.9 \ \mu g/m^3$			
Ground water quality at	pH : 7.2 to 7.64			
8 locations	TSS : 0.2 to 0.4 mg/l			
	TDS : 448 to 539 mg/l			
	Total Hardness: 208 to 315 mg/l			
	Chlorides : 225 to 273 mg/l			
	Fluoride : 0.59 to 0.9 mg/l			
	Heavy metals (Iron -Fe):0.2 to 0.3 mg/l			
Surface water quality	pH : 7.3 to 7.74, DO (in mg/l) : 4.2 to 5.5,			
	TDS (in mg/l) : 234 to 439, BOD (in mg/l) : 3.0 to 12.6,			
	COD (in mg/l) : 10.8 to 24.8			
Noise levels	The equivalent day-night noise levels in the study zone are ranging			
	from 46.8 dBA to 54.07 dBA.			
Traffic assessment study	• Traffic study has been conducted at Tilda – Simga (Major District			
Findings	road) (0.5 Kms.)			
	• Coal/Iron ore will be transported through railway upto the nearest			
	railway station (Tilda RS) and then to the plant in covered trucks			
	by road.			
	• Total no. of trucks required for transportation of raw materials,			
	products & Solid wastes will be 120 trucks/day.			
	• Existing PCU is 5330.5 PCU/day & and existing Level of Service			

24.2.10 Baseline Environmental Studies:

(Additional) PCU/day and Level of Service (LOS) will be: 0	.57.
V C V/C	
	LOS
(Volume in PCU/day)(Capacity in RatioPCU/day)PCU/day)	
Baseline 5330.5 10,000 0.53 0	Good
During (5330.5 + 10,000 0.57 (Good
operation of 360)	
the proposed $= 5690.5$	
Project	
V/CLOSPerformance $0.0 - 0.2$ AExcellent $0.2 - 0.4$ BVery Good	
0.2 - 0.4 D Very Good	
0.6 - 0.8 D Fair/Average	
0.8 – 1.0 E Poor	
1.0 & Above F Very Poor	
 The Level of Service (LOS) of the Road during operation project = 5,690.5 / 10,000 = 0.57 As per the above the LOS of the ROAD is categorised 'C', which implies "GOOD". Hence the existing road is capable of taking the add vehicular traffic due to the proposed project 	of the under ditional

24.2.11 The details of solid and hazardous waste generation along with its mode of treatment/disposal is furnished as below:

S.No.	Waste / By product	Quantity	Proposed method of disposal
		(TPA)	
1.	Ash from DRI	40,500	Will be utilised in the proposed Brick Manufacturing
			Unit
2.	Dolochar	45,000	Will be used in proposed FBC power plant as fuel.
3.	Kiln Accretion Slag	2,025	Will be used in road construction & utilised in the
			proposed brick Manufacturing Unit
4.	Wet scrapper sludge	10,350	Will be used in road construction & utilised in the

S.No.	Waste / By product	Quantity	Proposed method of disposal		
		(TPA)			
			proposed brick Manufacturing Unit		
5.	SMS Slag	24,000	Slag from SMS will be crushed and iron will be		
			recovered & then remaining non -magnetic material		
			being inert by nature will be used as sub base material		
			in road construction.		
6.	End Cuttings from	6,750	Will be reused in the SMS		
	Rolling Mill				
7.	Mill scales from Rolling	4,500	Will be given to Ferro Alloys units		
	Mill				
8.	Ash from Power Plant	43,538	Will be utilized in the proposed brick manufacturing		
	(with Indian Coal +		unit		
	dolochar)				

Hazardous Waste:

- Used Oil &Waste Oil : 3 KL/Annum Disposal : will be given to CECB approved Recyclers/reprocessors
- 2) Used batteries will be given back to the supplier under buyback arrangement.

24.2.12 Public Consultation:

Local newspaper (Hindi) NAIDUNIYA, Raipur					
(advt. on dt. 14.06.2022)					
National newspaper (English) "PUNJAB KESARI"					
(advt. on dt. 14.06.2022)					
15.07.2022, at 11:00 AM					
Project site Khasra No.s 587/1, 587/6, 587/10, 587/14, 597/1,					
597/3, 598, 599, 600, 612, 613/1 and 613/2, Gram Panchayat					
Chicholi, Tehsil Kharora, District Raipur, Chhattisgarh.					
Additional District Magistrate					
The issues raised during Public Hearing are:					
• Priority to be given to local people in employment.					
• Construction of Boundary wall in Chicholi village to prevent					
cattle entering into the agriculture fields					
• Construction of community building in Chicholi village					
• All required environment protection measures shall be					
installed in the industry.					
• Minimum Wages to be paid as per Govt rules.					
• Basic infrastructure facilities like supply of water,					
construction of rooms in school buildings					
• Water problem in Kumhari tank.					
• Impact on crops due to the proposed industry					

Request	for	computer	facilities	for	training	children	and
contribute	e in 1	upliftment	of their ed	ucati	on standa	rd	
 Surface w	vater	pollution					
 • ITI training to unemployed youth							
Desiltatio	on of	ponds, dra	inage, etc.				

Action plan as per MoEF&CC O.M. dated 30/09/2020:

S.NO.	MAJOR ACTIVIT	Y HEADS	YEAR OF IMPLEMENTATION			TOTAL
			1st Year	2nd Year	3rd Year	EXPENDITURE
			(Rs. in Lakhs)	(Rs. in	(Rs. in Lakhs)	(Rs. in Lakhs)
				Lakhs)		
A). Bas	ed on Need Based & SIA St					
1	Community & Infrastruct	ure				
	Development Programmes	5				
	i) Construction of public	Physical Nos. &	3 nos. in Chicholi	3 nos. in	2 nos. in	
	toilets	village	(v)& 4 nos. in	Mohrenga (v)	Bharuwadih	
			Gaurkhera (v) &	& 3 nos. in	khurd (v) & 2	
			3 nos. in Gaitra	Keotara (v)	nos. in	
			(v)		Paraswani (v)	
					& 2 nos. in	
					Khaulidabri (v)	
		Budget in	30	18	18	
		Lakhs				66
		•			Total	
2	Education					
	Providing Model	Physical Nos. &	Chicholi (v) -1	Mohrenga (v)	1 no. in	
	Anganwadi Centre in	village	No	– 1 No.	Bharuwadih	
	consultation with State				khurd (v) & 1	
	Women and Child				no. in	
	Development Department				Paraswani (v)	
		Budget Rs in	20	20	20	
		Lakhs				
						60
		Budget in	50	38	38	
		Lakhs				
					TOTAL (A)	126
B). Bas	ed on Public Consultation/H	Iearing				
1	Impart training to the local	Physical Nos. &	0	ne DISHA centre		
	villagers for skill	village				
	development.					
	DISHA Centre" along	Budget in				
	with necessary	Lakhs				
	infrastructure for various					
	vocational training					
	program for employment					
	generation in association		60	54	50	
	with National Skill					
	Development Mission					
	(Automobile Repair,					
	Welding, Electrical,					
	Computer Hardware, Soft					
	skills like computer					164

S.NO.	MAJOR ACTIVIT	Y HEADS	YEAR OF IMPLEMENTATION			TOTAL
			1st Year	2nd Year	3rd Year	EXPENDITURE
			(Rs. in Lakhs)	(Rs. in	(Rs. in Lakhs)	(Rs. in Lakhs)
				Lakhs)		
	programs etc.)					
2	Construction of class	Physical Nos. &	3 rooms in	3 rooms in	2 rooms in	
	rooms in schools of size	village	Chicholi (v) & 3	Gaurkhera (v)	Paraswani (v)	
	8m x 5m x3 m		rooms in	& 3 rooms		
			Mohrenga (v)	Keotara (v)		
		Budget in	30	30	10	
		Lakhs				70
3	Providing furniture,	Physical Nos. &	Mohrenga (v) – 1	Chicholi (v) –	Keotara $(v) - 1$	
	computers, library, sports	village	no	1no	no	
	equipment etc. for nearby					
	local schools of 3 villages					
	@Rs. 10.0 Lakhs per					
	school					-
		Budget in	15	15	15	
		Lakhs				45
4	Mineral water plants	Physical Nos. &	2 no.s in Chicholi	2 no.s in	2 no.s in	
		village	(v) & 2 no.s in	Tildadih (v) &	Paraswani (v)	
			Gaurkheda (v) &	2 no.s in	& 2 no.s in	
			2 no.s in	Keotara (v) &	Gaitra (v) & 2	
			Mohrenga (v)	2 no.s	no.s in Khauli	
				Bharuwadih	Dabri (v)	
			10	Khurd (v)	10	
		Budget in	18	18	18	54
5	Desilering formula		O(1, 1, 1, 1)	T 1. 11. ()	Malanara	54
5	Desilitation of ponds	Physical Nea Swillage	Chicholi (V)	l idadin (V)	Monrenga (V)	
		Nos.ævillage	by 1 m due to	ponu deenening by	pond doornoning by 1	
			desiltation	1 m due to	m due to	
			desittation	desiltation	desiltation	
		Budgot in	22.5	30	22.5	-
		Lakha	22.3	30	22.3	75
6	Compound well of 240 m	Dhysical	Chicholi (y)			15
0	length will be constructed	Nos &village	Chichon (V)			
	in Chicholi village to	Nos.&village				
	prevent cattle entering the					
	agriculture fields of					
	Chicholi village					
	emenon (mage	Budget in	20			-
		Lakhs				20
7	Plantation to be taken up	Physical	➤ 400 nos. of			
	outside the plant premises	Nos.&village	plants will			
	I I I I I I I I I I I I I I I I I I I	- · · · · · · · · · · · · · · · · · · ·	be planted			
			on both			
			sides of the			
			approach			
			road from			
			Tilda-			
			Simga			
			road.			
			➤ 2000 nos.			25

S.NO.	MAJOR ACTIVIT	Y HEADS	YEAR OF	TOTAL		
	Ī Ē		1st Year	2nd Year	3rd Year	EXPENDITURE
			(Rs. in Lakhs)	(Rs. in	(Rs. in Lakhs)	(Rs. in Lakhs)
				Lakhs)		
			of plants			
			will be			
			planted on			
			either side			
			of Tilda-			
			Simga			
			road			
			➤ 1000 nos of			
			plants in			
			Chicholi			
			village &			
			1000 nos.			
			of plants in			
			Gourkher			
			a village			
		Budget in	25			
		Lakhs				
8	Construction of	Physical		Chicholi		
	Community hall	Nos.&village		(v)		
		Budget in		73.5		
		Lakhs				73.5
					Total (B)	526.5
		TOTAL	160.00	173.00	94.00	
				Gra	and Total (A+B)	652.5
Recurr	ing expenditures under CSI	R as per companies	s Act 2014			
•	Health checkup will be carri	led out periodically	in surrounding villag	es @ Rs 5.0 Laki	is every year	

24.2.13 The capital cost of the project is Rs. 435 Crores and the capital cost for environmental protection measures is proposed as Rs. 35.1 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs.4.68 Crores. The employment generation from the proposed project is 700 nos. The details of cost for environmental protection measures is as follows:

S.No	Item	Capital Cost (Rs in Crores)		Recurring Cost per Annum	
		2023-25	2025-27	Total	(Rs in Crores)
1.	Air Emission Management				
	Electro Static Precipitators	9.00	3.00	12.00	2.20
	Fume /Dust extraction systems	3.50	3.50	7.00	0.80
	with Bag filters				
	Stacks	1.50	1.00	2.50	
	CAAQS (4 nos)	0.80	0.80	1.60	0.20
	CEMS (9 nos.)	0.45	0.25	0.70	0.05
	Mechanical dust sweepers (4 nos.)	0.20	0.10	0.30	0.02
	Other APCS	0.70	0.30	1.00	0.05
	Environment Monitoring				0.15
S.No	Item	Ca	pital Cost	Recurring Cost	
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		(Rs	in Crores)		per Annum
		2023-25	2025-27	Total	(Rs in Crores)
	Sub Total	16.15	8.95	25.10	3.47
2.	Wastewater Management				
	ETP	1.20	0.30	1,50	0.20
	STP	0.60		0.60	0.15
	Garland drains& settling ponds	0.40	0.20	0.60	0.04
	Sub Total	2.20	0.50	2.70	0.39
3.	Solid waste Management				
	Ash silos & ash handling system	2.50	0.50	3.00	0.35
	Slag crushing & disposal	0.15	0.15	0.30	0.05
	Hazardous & Municipal solid	0.20		0.20	0.05
	waste storage				
	Sub Total	2.85	0.65	3.50	0.45
4.	Greenbelt development & land	0.50	0.20	0.70	0.07
	scaping				
5.	Storm water Management	0.50	0.10	0.60	0.05
	&Rainwater Harvesting				
6.	Fire safety	1.50	0.50	2.00	0.10
7	Occupational Health center	0.50		0.50	0.15
]]	Fotal budget for Environment	24.20	10.90	35.10	4.68
Protection measures					

- 24.2.14 Greenbelt will be developed in 4.20 Ha. out of 12.19 Ha. of land. 2500 nos. of plants will be planted per Hectare as per CPCB norms. Total no. of plants will be 10,500 nos. which is about 34.45% of the total project area and nurtured within 1 year from the date of receipt of EC.
- 24.2.15 It has been reported by PP that, there is no violation under EIA Notification, 2006/court case/show cause/direction related to the project under consideration.

Written representations:

24.2.16 During the meeting, based on the deliberations made by the EAC, the project proponent vide letter dated 28.02.2023 through email dated 28.02.2023 submitted the following information:

S.No.	Point	Reply
1.	Plant layout with area	As advised by the Hon'ble Expert Appraisal Committee,
	statement, proper indexing	PP has submitted submitting the Revised Plant layout
	with colour notation for	duly incorporating the area statement, colour notation,
	units, superimposition of	Contour map, Drainage pattern along the internal roads.
	contour map along with	Calculation for drain size is also submitted.
	drainage pattern,	
	calculation of drain size	

S.No.	Point	Reply
2.	Social Infrastructure	As advised by the Hon'ble EAC, PP has submitted the
	development cost to be	revised budget for social Infrastructural Development @
	revised to 1.5% of the	1.5% of RS 435 Crores i.e. Rs 6.525 Crores. PP will be
	Project cost along with 4	adopting 4 nos. of villages i.e. Chicholi, Mohrenga,
	nos. of villages	Gaurkhera & Tildadih for undertaking Social
		Infrastructure Development works. Revised Action Plan
		is updated at para 24.2.12 above.
3.	Details on toxic metals	PP has submitted that the present proposal is a Greenfield
	including fluoride	project. There will not be any toxic metals in the slag
	emissions	from SMS unit. However PP hereby confirm that upon
		commencement of production, toxic metal analysis will
		be carried out every year and the reports will be
		submitted to the IRO, MOEF&CC and SPCB
		periodically.
4.	Confirmation of Elevation	PP hereby confirm that the elevation of the project site is
	of project site	ranging from 224 m above MSL to 231 m above MSL
5.	Details regarding the status	Out of total 12.19 Ha. of land, 0.843 Ha. of land is govt.
	of Govt. land	land. The latest correspondence pertaining to govt. land
		is submitted. PP hereby confirm that govt. land will be
		allotted in one month time. PP also assure that without
		allocation of govt. land, they will not commence
		construction of the project.
6.	Name of the consultant not	Due to Parivesh portal issue consultant name has not
	mentioned in Part-B	been displayed in Part-B. PP hereby confirm that
		Pioneer Enviro Laboratories & Consultants Pvt. Ltd. are
		EIA consultant for our project.

Deliberations by the Committee

- 24.2.17 The Committee noted the following:
 - 1. The instant proposal is for setting up of a new steel plant for production of 0.225 Million Tons Per Annum (MTPA) of TMT bars / Structural Steel.
 - 2. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.
 - 3. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

- 4. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.
- 5. Total project land is 12.19 Ha (Private Land:11.346 ha and Govt. Land: 0.843 Ha). Entire Private land has been registered in the company name and entire land has been diverted for industrial purpose. Lease application for 0.843 ha of Govt. land for a 99 years period is under progress.
- 6. The nearest human settlement from the project site is Gaurkhera at a distance of 0.85 km in the North direction.
- 7. Jamuniya Nala (1.2 Km, W), Mahanadi Branch canal (4.8 Km, SW), Kirna Tank (7.7 Km, W), Pindraon Pond (4.8 Km, S) and Kumhari Pond (2.8 Km, NE) exists within the study area of 10 km from the project site. The EAC is of the opinion that water bodies shall not be disturbed. Mitigation measures w.r.t. safeguarding the water bodies shall be implemented.
- 8. The water requirement for the project is 1130 KLD which will be sourced from Kumhari tank, which is at distance of 2.8 Km. State Investment Promotion Board, Chhattisgarh has forwarded recommendations to Water Resources Department for issuing approval for withdrawing water from Kumhari tank vide letter no. 985/SIPB/2021/728 dt. 6th August 2021.
- 9. Greenbelt will be developed in 4.20 Ha. out of 12.19 Ha. of land. Total no. of plants will be 10,500 nos. which is about 34.45% of the total project area and nurtured within 1 year. The EAC deliberated on the greenbelt action plan and found it satisfactory.
- 10. The EAC noted that the PP has proposed the Brick Manufacturing unit (25000 bricks/day) to use to solid waste as a step towards waste to wealth generation approach. The PP reported that the same unit will install simultaneously with other installation so that waste could be utilised gainfully from the commencement of operation of the Plant.
- 11. The Committee has found that the baseline data and incremental GLC due to the proposed project within NAAQ standards.
- 12. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
- 13. The Committee also deliberated on the public hearing issues along with revised action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.
- 14. The EAC deliberated on the written submission of project proponent and found it satisfactory.
- 15. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.
- 16. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or

standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

Recommendations of the Committee

24.2.18 In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal for grant of Environment Clearance **subject to uploading of written submission on PARIVESH portal** under the provisions of EIA Notification, 2006 subject to stipulation of following specific conditions and general conditions as per the Ministry's Office Memorandum No. 22-34/2018-III dated 9/8/2018 based on project specific requirements:

A. Specific conditions:

- (i) The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (ii) The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
- (iii) The nearest human settlement from the project site is Gaurkhera at a distance of 0.85 km in the North direction. Project Proponent shall prepare and implement an action plan for environmental safeguard measures to minimise the impact on the habitation of the locals. The company shall also include this location in its environmental monitoring programme.
- (iv) Jamuniya Nala (1.2 Km, W), Mahanadi Branch canal (4.8 Km, SW), Kirna Tank (7.7 Km, W), Pindraon Pond (4.8 Km, S) and Kumhari Pond (2.8 Km, NE) exists within the study area of 10 km from the project site. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
- (v) The water requirement of 1130 KLD shall be sourced from Kumhari tank, which is at distance of 2.8 Km. PP shall obtain necessary permission from the Competent Authority prior to commencement of project.
- (vi) Following additional arrangements to control fugitive dust shall be provided:
 - a. Fog / Mist Sprinklers at all conveyors point and on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas.
 - b. Proper covered vehicle shall be used while transport of materials.
 - c. Wheel Washing mechanism shall be provided in entry and exit gates with complete recirculation system.

- (vii) All internal road and connecting road from project site to main highway shall be developed and maintained with suitable Million Axle Standard (MSA) as per the traffic load due to existing and proposed project.
- (viii) All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains to trap the run off material.
 - (ix) Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the MoEF&CC.
 - (x) Particulate matter emission from stacks shall be less than 30 mg/Nm³. Action plan submitted to limit the dust emission shall be strictly implemented.
 - (xi) CEMS shall be provided on all process stacks and the signal shall be received in plant control room for central control of APCDs installed in the plant
- (xii) 85-90 % of billets shall be rolled directly in hot stage. RHF shall operate using only Light Diesel Oil as a fuel.
- (xiii) Solid waste utilization
 - a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making.
 - b. PP shall recycle/reuse 100 % solid waste generated in the plant.
 - c. Used refractories shall be recycled as far as possible.
 - d. PP has proposed the Brick Manufacturing unit (25000 bricks/day) to use to solid waste as a step towards waste to wealth generation approach. The PP reported that the same unit will install simultaneously with other installation so that waste could be utilised gainfully from the commencement of operation of the Plant.
- (xiv) The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. MSW waste shall be treated in digester and recovered gas shall be used in the canteen.
- (xv) The company shall also undertake rain water harvesting measures as per the plan submitted in the EIA/EMP report and reduce water dependence from the outside source.
- (xvi) Toxic metal analysis shall be carried out every year and the reports shall be submitted to the IRO, MOEF&CC and SPCB periodically
- (xvii) As committed, PP shall adopt four villages namely Chicholi, Mohrenga, Gaurkhera & Tildadih and shall prepare and implement a robust plan for socio-economic development of nearby villages to develop them into model villages.
- (xviii) A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
 - (xix) Three tier Green Belt shall be developed in at least 33% of the project area ia a period of 1 year with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Gap filling shall be undertaken and survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall also develop 50 m wide greenbelt in the form of shelter belt inside the project area towards Mohrenga PF and 30 m green belt development between plant site and Gaurkhera village along with windshield inside the plant premises to act as green barrier for air pollution &

noise levels. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.

- (xx) Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.
- (xxi) Air Cooled condensers shall be used in the captive power plant.
- (xxii) During operational phase at Captive Power Plant, PP shall measure coal dust exposures and to maintain coal dust exposures within stipulated standards at coal handling areas. PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.
- (xxiii) All the commitments made to the public during the Public Hearing/Public Consultation shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
- (xxiv) Action Plan for fire fighting system including provision for flame detectors, temperature actuated heat detectors with alarms, automatic sprinkler system, fixing the location of fire water tanks, separate power system for fire fighting, involvement of qualified and trained fire personnel, nearest fire station & time required to reach the proposed site shall be prepared and implemented.
- (xxv) The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.
- (xxvi) The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.

B. General conditions:

I. Statutory compliance:

i. The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be

obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as two Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- iii. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
- iv. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- v. Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.
- vi. The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation.
- vii. Plant internal roads shall be concreted and a vacuum cleaner shall be used to regularly clean the roads.
- viii. The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.
- ix. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.

III. Water quality monitoring and preservation

- The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R 414 (E) dated 30th May 2008; G.S.R 277 (E) dated 31st March 2012 (applicable to IF/EAF); S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- iii. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.

iv. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.

IV. Noise monitoring and prevention

i. Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.

V. Energy Conservation measures

i. Energy conservation measures may be adopted such as adoption of solar energy and provision of LED lights etc., to minimize the energy consumption.

VI. Waste management

- i. Used refractories shall be recycled as far as possible.
- ii. Oily scum and metallic sludge recovered from rolling mills ETP shall be mixed, dried, and briquetted and reused in melting Furnaces.
- iii. Kitchen waste shall be composted or converted to biogas for further use.

VII. Green Belt

- i. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.
- ii. Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitorable with defined time frames", when PP comes for EC proposal. This study shall be formulated keeping in view of India's Net-zero commitment at the COP-26 Climate Summit.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE).
- iii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

IX. Environment Management

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020.
- ii. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any

infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.

X. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
 - ix. The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.

- x. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xi. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiv. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xv. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Agenda No. 24.3

24.3 Proposed Integrated Cement Project: Clinker - 8.0 Million TPA (2 x 4.0 Million TPA), Cement - 5.0 Million TPA (2 x 2.5 Million TPA), CPP - 40 MW (2 x 20 MW), WHRS - 40 MW (2 x 20 MW) in phased manner along with Railway Siding at Village: Parewar, Tehsil & District: Jaisalmer, Rajasthan by Wonder Cement Limited- Consideration of Environmental Clearance.

[Proposal No. IA/RJ/IND1/413238/2023; File No. IA-J-11011/24/2022-IA-II(IND-I)] [Consultant: J.M. EnviroNet Pvt. Ltd.,; Valid Upto: 07.08.2023]

- 24.3.1 M/s. Wonder Cement Ltd. has made an online application vide proposal no. IA/RJ/IND1/413238/2023 dated 09.02.2023 along with copy of EIA/EMP report, CAF & Form 1 (Part A, B & C) seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006, for the project mentioned above. The proposed project activity is listed at schedule no. 3(b) Cement Plants and 1(d) Thermal Power Plants under Category "A" of the schedule of the EIA Notification, 2006 is therefore, appraised at Central Level.
- 24.3.2 Name of the EIA consultant: M/s. J.M. Environet Pvt. Ltd. [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/2023/SA 0172; Valid up to 07.08.2023, as on February 27, 2023].

-	The detune of the Fort de Fulliphed as below.										
	Date of Consideration		Details Date of		ToR Validity						
	application			accord							
	24 th Jan.,	53 rd meeting of EAC	Terms of	02 nd March,	01 st March, 2026						

Details submitted by Project proponent

24.3.3 The details of the ToR are furnished as below:

Date ofConsiderationapplication		Details	Date of accord	ToR Validity
2022	held on 10 th Feb., 2022	Reference	2022	

- 24.3.4 The project of M/s. Wonder Cement Limited located in Village: Parewar, Tehsil & District: Jaisalmer Rajasthan is for setting Integrated Cement Project: Clinker 8.0 Million TPA (2 x 4.0 Million TPA), Cement 5.0 Million TPA (2 x 2.5 Million TPA), CPP 40 MW (2 x 20 MW), WHRS 40 MW (2 x 20 MW) in phased manner along with Railway Siding.
- 24.3.5 Environmental Site Settings:

S. No.	Particulars			Details			Remarks
i.	Total land	Total Pr	oject a	rea is 377	.065	ha (Entirely	Land use:
		Governm	ent alien	ated barren	land).		Government barren
							land allocated for
							industrial use.
	Land acquisition details	Total lan	d has be	en allotted	to Wo	onder Cement	
ii.	as per MoEF&CC O.M.	Limited b	oy Distri	ct Collector,	Jaisa	lmer Govt. of	2
	dated 7/10/2014	Rajastha	n Vide O	rder dated 24	4 th Ma	arch 2022 and	
		subseque	nt amer	ndment on	27^{th}	May 2022.	
		Subseque	ently, Jo	int Secretor	ry, D	epartment of	
		Industrie	s and C	ommerce, C	Govt.	of Rajasthan	1
		granted t	he permi	ission for all	lotme	nt of 377.065	
		ha land	for in	ndustrial pu	ırpose	e under the	
		provision	is of	Rajasthan	Indu	ustrial Area	L
		Allotmen	t Rules,	1959 vide l	etter	dated 5 th Dec	
		2022 to Wonder Cement limited for setting up)
		Integrate	d Cemen	t Plant			
	Existence of habitation	Plant Sit	e: Nil				R&R is not
iii.	& involvement of R&R,						applicable
	if any.	Study A	rea:				
		Habit	ation	Distance (km)	Direction	
		Parewar	•	~0.8		SSW	
		Tulsirar	n ki	~13		NE	
		Dhani		1.5			
		Leela Pa	arewar	~2.4		SW	
		Kabir B	abir Basti ~5.4		NNE		
		Khinya ~9.5 NE					
		Sanu	~9.5 SSW		SSW		
	Latitude and Longitude	Point	La	titude	L	ongitude	-
iv.	of all corners of the		Plant Area				
	project site	Α	27°17	°17'30.76"N 7		44'38.69"E	
		В	27°17	"31.12"N	70° -	45'51.18"E	
		C	27°16	5'29.89"N	70° -	45'52.44"E	
		D	27°16	5'30.38"N	70° 44'38.88"E		

S. No.	Particulars	Details	Remarks
v.	Elevation of the project	172 m to 188 m above mean sea level.	-
	site		
	Involvement of Forest	No Forest Land is involved in the plant site.	-
vi.	land if any.		
	Water body (Rivers,	Plant site: Nil	-
vii.	Lakes, Pond, Nala,	Study area: No water body falls within study	
	Natural Drainage, Canal	area	
	etc.) exists within the		
	project site as well as		
	study area		
viii.	Existence of ESZ/ ESA/	<u>Study Area:</u> Nil	-
	national park/wildlife		
	sanctuary/ biosphere		
	reserve/ tiger reserve/	• List of Reserved and protected forests:	
	elephant reserve etc. if	Protected Forest (4.0 km in South direction)	
	any within the study		
	area.		

24.3.6 The unit configuration and capacity of proposed project is given as below:

S. No.	Plant	Proposed Unit	t (Phase - I)	Proposed Unit (Phase - II)					
	Equipment /								
	Facility	Configuration	Capacity	Configuration	Capacity				
1.	Clinker	Kiln: 12000 TPD	4.0 Million TPA	Kiln: 12000 TPD	4.0 Million TPA				
2.	Cement	Cement Mill: 330	2.5 Million TPA	Cement Mill: 330	2.5 Million TPA				
		TPH		TPH					
3.	CPP	CPP Boiler (2 x 20	20 MW	20 MW	40 MW **				
		MW)							
4.	WHRS	PH & AQC Boiler:	20 MW	20 MW	40 MW **				
		(2 x 20MW)							
Note: *	Note: ** Common Single turbine of 40 MW comprises of 20 MW WHRS & 20 MW CPP								

24.3.7 The details of the raw material requirement for the proposed project along with its source and mode of transportation is given as below:

S.	Name of	me of Proposed Quantity (MTPA) Source		Source	Approx.	Mode of	
No.	Raw Matarial	Phase - Phase - Tota		Total		Distance	Transportati
	Material	I	II	Quantity		from Project	on
						site	
					Captive		Belt
1.	Limestone	5.28	5.28	10.56	Limestone	Adjacent	conveyor /
					Mine/Purchase		Road / Rail

2.	Red ochre/Iron Ore	0.0066	0.0066	0.0132	Parewar, Jaisalmer, Rajasthan	5 Km	by Road
3.	Clay	0.396	0.396	0.792	Captive/ Nearby area From Village - Lanela	50 Km	by Road
4.	Silica Sand	0.396	0.396	0.792	Parewar & Devikot, Jaisalmer, Rajasthan	5 Km & 150 Km	by Road
5.	Gypsum (Mineral and Chemical)	0.125	0.125	0.250	Mohangarh, Rajasthan	69 Km	by Road
6.	Fly ash & Pond ash	0.875	0.875	1.75	Own TPP and Nearby Thermal Power Plants, Barmer, Rajasthan	190 Km	by Rail and Road

- 24.3.8 The total water requirement is 2300 KLD, which will be sourced from Indira Gandhi Canal / Nehar project (Sagarmal Gopa Branch). Permission for the same has been obtained from Indira Gandhi Nahar Department for withdrawal of 1700 KLD vide their letter no. F. 6(3) IGNB/2021 dated 15th March, 2022. Permission for balance water requirement i.e., 600 KLD will be obtained from the concerned authority.
- Power requirement of 90 MW will be sourced from proposed Captive Power Plant (40 MW),
 WHRS (40 MW), State grid of Jodhpur Vidyut Vitran Nigam Ltd. (JVVNL) & D.G Set (2 x 1500 KVA for emergency).
- 24.3.10 Baseline Environmental Studies:

Period	Winter Season (December 2021 to February 2022)	March 2022
AAQ	• $PM_{2.5-}22.7$ to 40.6 $\mu g/m^3$	2 additional location were monitored
parameters	• PM_{10} - 50.4 to 75.9 $\mu g/m^3$	one in Upwind and one in crosswind
at 08	• SO ₂ - 5.0 to 12.8 μ g/m ³	toward NE:
locations	• NO _x - 8.2 to 23.2 μ g/m ³	$PM_{2.5-}23.0$ to 41.3 µg/m ³
(Min and	• CO - BDL to 0.76 mg/m^3	$PM_{10} - 52.0$ to 76.3 $\mu g/m^3$
Max)		SO_2 - 5.2 to 13.2 µg/m ³
		NO_x - 8.6 to 24.3 µg/m ³
		CO - BDL to 0.79 mg/m^3
Incremental	• PM - 2.14 μ g/m ³ (Level at ~600 m in SW	-
GLC level	Direction)	
	• SO ₂ - 2.92 μ g/m ³ (Level at ~1800 m in SW	
	Direction)	

	Koad	(Volume in	(Capacity in	V/C R	latio	L08		
	Doed	V	С	Exist	ing	ING		
	18 A	[]				[1	
	Existing PC	U is 27.14 PCU/h	nr. on NH - 968 (MI	DR - 19) and	existing	level of service (LOS)	
	Clin	ker - 30% by road	and 70% by rail	10		• ,• •		
	 Cement - 30% by road and 70% by rail. 							
	 Lignite - 100% by road. 							
	 Petc 	oke - 50% by road	d 50% by rail					
	 Coal 	l - 20% by road 80	0% by rail					
	 Silic 	a sand - 100% by	road.					
	 Clav 	v - 100% by road.		. j 10000.				
	 ■ Gvp 	sum (mineral and	chemical) - 100% h	w road				
	Fly a	asn - 90% by road	10% by rail					
	and	5.0 MTPA Limes	tone From RSMML	by road	d.			
	Lime	estone - via Cove	ered belt Conveyor	from C	Captive	e Limesto	one Mine (1.0 MTPA)	
findings	below:							
study	🗸 Transpo	ortation of raw ma	terial, fuel & finish	ed prod	luct w	vill be dou	ne as per details given	
assessment	direction	n.				,		
Traffic	✓ Traffic s	study has been co	nducted at NH - 968	8 (earlie	er MD	0R - 19) w	hich is 3.0 km in East	
and Night)		isi ule ingit unit	•					
Leg (Dav	Leg dB (A)	for the night time		т <i>2.</i> Ј			-	
Noise levels	48.9 to 52.5	$\frac{1}{1} \operatorname{eq} d\mathbf{B} (\Delta) \operatorname{for} d\mathbf{B}$	av time and 30.3 to	42.3				
locations	• COL) - 15.7 - 27.8 mg	/1					
at 02	• BOF) - 5.6 - 8.5 mg/l						
water quality	• DO -	- 6.0 - 6.5 mg/l						
Surface	● nH -	7.56 - 7.77					_	
locations)								
on other								
wus unavailahle								
<i>ucation as it</i>								
from 01								
collected								
water was	- 1100		~					
(Ground	• Hea	vy Metals - Iron a	s Fe: 0.23 mg/l					
location	• Fluc	oride - 1.40 mg/l	5' -					
at 01	• Chlo	orides - 789.65 m	of					
water quality	• Tota	al Hardness - 589.	65 mg/l					
Ground	• pH -	- 7.68					_	
	Dire	ection)		~ ~ ~				
	• CO	- 1.88 µg/m ³ (Le	evel at ~ 2100 m in	SW				
	Dire	ection) $\mu g/\mu (L)$						
	• NO.	- 3.99 µg/m ³ (L	evel at ~2300 m in	SW				

		PCU/hr.)	PCU/hr.)				
	NH - 968						
	(MDR -	27.14	625*	0.04	А		
	19)						
	* Capa	city as per IRC- 6	4-1990 Guidelines	5.			
	✓ PCU lo	ad after proposed	d project will be 2	7.14 (Existing	(y) + 70.62	(Additional) PCU/hr.	
	and lev	el of service (LOS	S) will be A.				
		V	С	Evisting			
	Road	(Volume in	(Capacity in	Existing V/C Patio	LOS		
		PCU/hr.)	PCU/hr.) PCU/hr.) V/C Katto				
	NH - 968 (MDR - 19)	27.14 + 70.62 = 97.76	625*	0.15	А		
	* Capacity a	as per IRC- 64-19	90 Guidelines.				
	Conclus	sion: The level o	f service is "A" a	fter including	the additi	onal traffic due to the	
	propose	d project.					
Flora and	No Schedule	e - I species have	been observed and	d recorded dur	ing the fie	eld survey in the study	
fauna	area from the project boundary.						
	List of flora & fauna of the study area has been authenticated by Deputy Conservator of						
	Forest, Jaisa	llmer dated 01 st N	ov., 2022.				

24.3.11 The details of solid and hazardous waste generation along with its mode of treatment/disposal is furnished as below:

S. No.	Type of Waste	Source	Quantity	Treatment / Disposal			
1.	Dust	Cement Plant	420 TPD	Dust collected from various APCEs will be recycled into the process.			
2.	Fly ash	СРР	0.11 MTPA	Used in manufacturing of PPC grade cement			
3.	STP Sludge	STP	~25 Kg/Annum	Used as manure for greenbelt development / plantation			
4.	Used Oil, Contaminated cotton rags or other cleaning materials	Plant KL/Annum Wi		Will be used in Kiln as co-processing / Sold to CPCB authorized recycler			
	Empty barrels/containers/liners	Wannenance	~200 Kg/Annum	Will be sold to CPCB authorized recycler			
5.	Bottles, paper, cans, textile, etc.			Will be sold to registered recycler			
	Kitchen and canteen/ Green waste	MSW	500 Kg/day	Bio-degradable waste will be converted into organic manure by installation of Organic Waste Composting (OWC) machine (Capacity: 250 kg/day) and manure			

S. No.	Type of Waste	Source	Quantity	Treat	tment	/ Dispos	sal	
				will	be	used	for	greenbelt
				devel	opmer	nt / plant	ation.	

24.3.12 Public Consultation:

Details of advertisement	Public Hearing Notice published in Newspapers "The Indian
given	Express" on 30 th June, 2022 and "Rajasthan Patrika" on 30 th June,
	2022
Date of Public Consultation	03 rd August, 2022 at 11:00 AM
Venue	Rajiv Gandhi Seva Kendra, Village Parewar, Tehsil and District:
	Jaisalmer
Presiding Officer	Additional District Collector, Jaisalmer (Rajasthan)
Major issues raised	Employment, Environment, Education, Socio Economic
	Development, Health, etc.

Action plan as per MoEF&CC O.M. F.No. 22-65/2017-IA.III dated 30/09/2020

							В	udgeted Am	ount in Lakh
S. N	Thematic Area	Activity	Estimation basis	Village Name	1st yr.	2nd yr.	3rd yr	Capital Cost	Recurring/ 4th Year onwards Cost
	Wonder	InfrastructureSupporttogovt./grampanchyatforEstablishmentofinfrastructurelikedrinkingwater pipeline toParewar,Kabirbasti,nagavillagethroughongoingGovt.	Infrastructure Support to the govt. / gram panchyat for Laying of pipe line from Kabir Basti to Parewar (8.5KM) for drinking water through ongoing Govt. Scheme Jal Mission	Parewar	100			100	NA
1	Sanrachana (Infrastructure Development Programme)	Scheme Jal Mission.	Infrastructure Support to the govt. / gram panchyat for Strengthening of existing pipe line from eastern canal to Kabir basti (8KM) for drinking water through ongoing Govt. Scheme Jal Mission	Kabir Basti		80		80	NA
			Infrastructure Support to the govt. / gram	Naga			50	50	NA

							В	udgeted Am	ount in Lakh
S. N	Thematic Area	Activity	Estimation basis	Village Name	1st yr.	2nd yr.	3rd yr	Capital Cost	Recurring/ 4th Year onwards Cost
			panchyat for Strengthening of pipe line from eastern canal to Naga (2 KM)for drinking water through ongoing Govt. Scheme Jal Mission						
			Suport for Laying of pipe line from Parewar to Leela Parewar Dhani (3KM)	Leela Parewar			50	50	NA
		Street lights for		Parewar	16				
		Model Villages		Leela		4			
				Parewar		-			
				Dhakal Singh ki			16		
			Solar powered	Dhani			1.0		
			LED street lights	Bhad ki		16			
			18W, lithium	dhani		1.0		45 8	5
			battery auto	Tulach				40.0	5
			operated @ Rs.	singh ki Dhani		1.6			
			20,000/-	Kabir					
				Basti	8				
				Joga			6		
				Kakab			3		
			~	Naga			4		
		Construction of Common Service Centre	Construction of well equipped common service centre for villagers near gram panchayat, in Rajasthan know as 'Rajiv Gandhi Service Centre'. Facilities includes - Meeting room, library, Bus Stop	Parewar, Leela Parewar, kabir Basti,	50	50	50	150	NA
		Construction of Bitumen/ gravel/ CC Road in Villages	Construction of Road from parewar to Kabir basti approx 4.7 Km	Parewar	850			850	20

							В	udgeted Am	ount in Lakh
S. N	Thematic Area	Activity	Estimation basis	Village Name	1st yr.	2nd yr.	3rd yr	Capital Cost	Recurring/ 4th Year onwards Cost
			Contribution to Gram panchyat	Parewar					Cost
			for Construction of 2000 Mtr CC		60	60			
			road from main road to school						
			gate under Jan Sahbhagita Yojna						
			Contribution to	Kabir					
			Gram panchyat	Basti					
			for Village streets					200	
			construction in		60	60	60	390	
			CC road 3000						
			Mtr under Jan						
			Sahbhagita Yojna						
			Contribution to	Leela					
			Gram panchyat	Parewar					
			for Village streets						
			construction in			60	30		
			CC road 1500						
			Mtr under Jan						
			Sahbhagita Yojna						
			Contribution to	Tulsiram					
			Gram panchyat	ki dhani					
			for Village streets			•	•		
			construction in			30	30	60	
			CC road 1000						
			Mtr under Jan						
			Sahbhagita Yojna						
		Construction of	Construction of	Leela					
		Drainage &	Drainage System,	parewar,	(0)	(0)	(0	100	
		Sanitation	Sanitation &	parewar,	00	00	00	180	
		System m v mage	in Village area	Rabir Rosti					
		arca Support for	Support for	Jasu Laala					
		Drinking water	provising water	narewar					
		facility under Jal	connection for	parewar,					
		Mission Yoina	every household	Kabir	50	50	50	150	
			under the Jal	Basti					
			Mission Yojna						
		Swcahha Bharat	Providing	Leela					
		Mission - II	training, dustbin,	parewar,					
			battery operated	parewar,					
			garbage	Kabir	15	15	15	15	
			collection auto,	Basti	15	15	15	43	
			compost to						
			villagers and						
			common area						
		Construction	Construction	Parewar	75	75	75	225	25

					Budgeted Amount in La					
S. N	Thematic Area	Activity	Estimation basis	Village Name	1st yr.	2nd yr.	3rd yr	Capital Cost	Recurring/ 4th Year onwards Cost	
		works for Model	works for Model	village ,						
		Village as per	Village as per	Leela						
		requirement of	requirement of	Parewar						
		community or	community or	and						
		direction of Govt.	direction of Govt.	Kabirbasti						
				Total	1344	547.2	484.6	2375.8	50	
		Construction of	Construction of							
		Integrated Model	Integrated Sports							
		Sports Complex	Complex							
			including racing							
			track, boundary							
			wall, high rise							
			sitting structure,	Parewar,	150	150		200	NT A	
			moveable goal	kabir Basti	150	150		300	NA	
			football							
			tournaments etc							
			in co-ordination							
			with the Gram							
			Panchavat &							
			School							
		Refurbishment of	Construction of							
		Govt. Girls	Toilet block							
		Upper Primary	Water Proofing at							
		School - Parewar	8 Class rooms	Parewar						
			and connect with							
	Education		tankas, CCTV,		70			70	NA	
2	(Wonder		Painting &	i ui cirui				70	11/1	
	Udaan)		electrification of							
			building,							
			provide furniture							
			for 100 Students,							
		Iron Shad at	Genetruction of	Donowon	0					
		Govt Schools	Iron Shed 60x40	l al ewal Parewar	0					
		and	Ft at each school	Girls			8			
		Establishment of	for children	School			3			
		Rural Library	assembly &	Naga		8				
		·	cultural activities,			-				
			Establish rural					32	NA	
			library for							
			preparation of	Leela			Q			
			competition	Parewar			Ø			
			examinations							
			through Jan							
		a	Sahbhagita							
		Support for	Ks 1000 per child	Parewar	1	1	1	0	NT A	
		students for	for guide book,	Kabir haat	1	1	1	У	NA	
		preparation of	note book etc	Dasti,						

				Budgeted Amount in					
S. N	Thematic Area	Activity	Estimation basis	Village Name	1st yr.	2nd yr.	3rd yr	Capital Cost	Recurring/ 4th Year onwards Cost
		Board		Naga,					
		examination, scholarship and Facilitation of best performing girls-boys		Joga, Kakab	1	1	1		
		Supply of	Rs 32400 for	Parewar		1.1			
		computers set	Computers and	Joga			1.1	3.3	NA
		with all in one	22600 for printer	Kabir			1.1	010	
		printers	= 55000	Basti	•				
			@25000 rupees	Parewar	2	2	2		
		Supply of Sports	cricket kit/football kit/	Kabir basti, Naga	2	2	2	18	NA
		Kit to children	vollyboll kit etc for oner sports of their choice	Joga, Kakab	2	2	2		
				Parewar	3				
		Supply of Furniture in	@2000 per set	Kabir Basti		2		7.5	2
		Schools as per requirements	(table and chairs)	Naga, Joga, Kakab			2.5		
		Renovation		Parewar	90				
		/Construction of Classrooms/	@500000 per	Kabir Basti		90			
		Boundary wall / tanka / Roof/ Electrification /Painting work and Girls & Boys Toilet blocks etc.	school of each Village through Jan sahbhagita	Naga, Joga, Kakab			75	255	5
		Providing Wi-FI facility	Providing Wi-Fi facility in village for accessing common services	Leela parewar, parewar, Kabir Basti		2	2	2	2
		Digitalization of the Classrooms	Digitalization of the Classrooms	Leela parewar, parewar, Kabir Basti		5	5	5	
		Library development(Digital+Physical)	Library development(Digital+Physical)	Leela parewar, parewar, Kabir Basti		5	5	5	
		Schorship for Higher	Schorship for Higher Education	Leela parewar,		5	5	5	5

							В	udgeted Am	ount in Lakh
S.				Village				Capital	Recurring/ 4th Year
N	Thematic Area	Activity	Estimation basis	Name	1st yr.	2nd yr.	3rd yr	Cost	onwards
									Cost
		Education		parewar,					
				Kabir					
				Basti					
		Distribution of	Distribution of	Leela					
		Solar Lamp to	Solar Lamp to	parewar,	4	4	4		
		Ciniaren	Ciliaren	parewar, Kabir	4	4	4		
				Basti					
		Supply of		Parewar					
		Sanitary pad	Rs. 1 Lakh per	(Boys &	•				
		vending &	school of each	Girls	2				
		incinerator	Village for	School)					
		machine, sports	Vending	Kabir				6	5
		items and other	machine,	basti,		2		Ū	-
		works as per	Incinerator and	Naga					
		request of villagors or Covt	distribution	Joga,			2		
		Department	distribution	Kakab			2		
		Department		Total	336	283.1	127.7	717.8	19
		Con	Construction of						
			10 bedded						
		Construction of	hospital with	Parewar	300			300	50
		Hospital	laboratory and	1 al Cwai	500			500	50
			other required facilities						
			facilities	D					
			Financial support	Parewar, Kabin					
			essential furniture	hasti	10	7	10		
			like patient bad.	Leela	10	,	10		
		Refurbishment	examination	Parewar					
		and Infra	couch, table,	Naga		4			
	Wonder	support to Govi.	chair, labour						
	Arogyam	as per	table, stretcher,					35	2
3	(Preventive	requirement and	trolley, wheel						_
	Health Care	to equip with	chair, Sanitary	Ŧ					
	Initiatives Programma)	Covid Care	pad vending α	Joga, Kakab	4				
	1 Togramme)	Facilities	machine Medical	Макар					
			Furniture.						
			Renovation of						
			Buildings etc.						
		Monthly Medical	Rs. 1 Lakh Per	Parewar,					
		check up camp	camp includes	Leela					
		covering in each	tent, sitting	Parewar,					
		village on	arrangement, free	Kabir Da fi	18	18	18	54	7.2
		rotation basis,	medicine,	Basti,					
		Annual Eye Check-un Camp	noster	Traga, Joga					
		in partnership	awareness.	Kakab					
		I	,			L			

		Budgeted Amount in La					ount in Lakh		
S. N	Thematic Area	Activity	Estimation basis	Village Name	1st yr.	2nd yr.	3rd yr	Capital Cost	Recurring/ 4th Year onwards Cost
		with Govt. Block Department	medical team etc. No of Villages - 6, Parewar, Leela Parewar, Kabir Basti, Naga, Joga, Kakab No of Camps - 18 Camps annually						
		Financial support to the Govt / gram panchyat for Construction of Govt. Veterinary Sub Centre	Financial support to the Govt / gram panchyat for Construction of well equipped Govt. Veterinary Sub Centre for livestock's at GP - Parewar, staff by Govt.	Parewar	75			75	NA
		Periodic Veterinary Health Check UP	Rs. 1 Lakh Per camp includes tent, sitting	Parewar, Leela Parewar	6	6	6		
		Camp on quarterly Basis covering in each	arrangement, check up by Govt medical team	Kabir basti, Naga	6	6	6	54	5
		villages to cover livestock	,supply of vaccines etc.	Joga, Kakab	6	6	6		
				Total	425	47	46	518	14.2
		RepairingorConstructionofVillageTanka	@200000 per tanka for 15 Tanka	Parewar, Kabir basti	15	15	15	105	2
		Water facility		Naga Joga, Kalaah	8	8	8		
4	Wonder Eco Green Initiatives (Natural	Pond Development	Development of pond in villages with latest technological intervention in three villages	Kakab Parewar, Kabir Basti & Leela Parewar	20	20	20	60	
	Resource Management)	Green Zone Development in villages	Development of green zone as per guidance of AFRI / CAZRI in nearby villages for development of degraded land with modern technology	Parewar, Kabir basti, Leela parewar	25	25	25	75	
		Establishment of	Establishment of	Parewar,	70	65	65	200	2

Budgeted Amount in I						ount in Lakh			
ç				Villago				Conital	Recurring/
э. N	Thematic Area	Activity	Estimation basis	v mage Normo	1st yr.	2nd yr.	3rd yr	Capital	4th Year
1				Ivanie				COSI	Cost
		Panchnhal in	Panchnhal	Kahir					Cost
		ancipitat in	I dhuan (Fruit	Rabli					
		MCNDECA	Ourlyan (Fruit Orchard) in	Dasu,					
		(Crom	convergence with	Dorowor					
		(Grain Panchavat)	MGNREGA at	Larewar, Naga Joga					
		Tanchayat)	50 Bigha of Land	Taga, Juga					
			in each 5						
			Villages Plants -						
			Rer Shisham						
			Det, Shisham,						
			Lemon Kheiri						
			Sangri Kumath						
			Pilu (Ibal) Sevan						
			Grass A dvantage						
			- Increase						
			biodiversity						
			Regular income						
			to Panchayat,						
			Availability of						
			Fruits & fodder						
			(Sevan Graas) for						
			livestock to						
			villagers Input -						
			Chain-link						
			fencing, Drip						
			irrigation, Hybrid						
			plants, soil						
			mixture etc in						
			collaboration						
			with AFRI -						
			Jodhpur and						
			CAZRI - Jodhpur						
		Development of	@1500 per Plant	Parewar	5	5	5		
		Plantation in	with tree guard	Kabir					
		Public Place,	tor 2000 plants	basti,	5	5	5		
		Schools,		Naga,					
		Hospitals,						45	15
		panchayat,		Joga,	-	-	-		
		community		Kakab	5	5	5		
		Guard							
		Distribution of	@150 per plants	Parewar					
		Fruits nlants	for 3000 plants	Kahir					
		medicinal Plants	and drin	basti.					
		suitable to Local	irrigation support	Naga.	8	8	8	24	NA
		climatic	to farmers	Joga.					
		Conditions		Kakab					
		Support for	Distribution of	Parewar,	Δ	•	Δ	25	1.5
		Grazing Land	Good Quality	Kabir	У	У	У	21	1.5

							В	udgeted Am	ount in Lakh
S. N	Thematic Area	Activity	Estimation basis	Village Name	1st yr.	2nd yr.	3rd yr	Capital Cost	Recurring/ 4th Year onwards Cost
		Development	Seeds(SevanGrass)toPanchayatfordevelopmentofGrazingLand2Lakhvillage	basti, Naga, Joga, Kakab					
				Total	182	177	177	536	20.5
5		Construction of 'Rural Development Centre' - Skill Training	Construction of Rural Development Centre which includes two hall and other facilities for skill & other training under Hunar Initiatives	Parewar	160	60		220	2
		Training & Create brand of handloom products	Skill training & brand creation to women for knitting, weaving	Parewar, Kabir basti Naga		6	3		
	Wonder Hunar (Women Empowerment	developed by women artisan for income generation skills to Women in craft, embroidery, handloom etc.	and stitching for their handloom products etc.	Joga, Kakab			6	15	220 2 15 1 5 1 15 2.5
	Programme)	Train women for value addition in crop production		Parewar, Kabir basti	1			-	
		to increase their	women training	Naga		2		d yr Capital Cost 4th re- onward Cost 77 536 20.5 77 536 20.5 3 220 2 3 15 1 6 5 1 2 5 1 5 15 2.5 15 45 5	1
		income generation		Joga, Kakab			2		
		Support local art, craft, cultural activities	Support for participating in exhibition, mela & promote Hunar and mangilyar artist of local area, lumpsum	Parewar, Kabir basti Naga Joga, Kakab	5	5	5	15	2.5
		Training & support to Women / farmers for increase income generation	Training & Support / skill development to Women / farmers / youth for increase income	Parewar, Kabir basti, leela Parewar	15	15	15	45	5

	Budgeted Amount in Lakh								
S. N	Thematic Area	Activity	Estimation basis	Village Name	1st yr.	2nd yr.	3rd yr	Capital Cost	Recurring/ 4th Year onwards Cost
			generation						
		Project	Experienced	Parewar,					
		Coordinator,	development	Kabir					
		field workers,	professional &	basti,					
		travel & other	local field	Naga,					
		cost for	workers, project	Joga,	18	20	22	60	24
		implementation	coordinators to	Kakab					
		of activity							
			activities in time						
		bound manner							
		Total		199	108	53	360	35.5	
		Total In Lakh			2486.00	1162.30	888.30	4507.60	139.20

24.3.13 The capital cost of the proposed project is Rs. 4200 Crores and the capital cost for Environmental Protection Measures is proposed as Rs. 302 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs 15 Crores/annum. The employment generation from the project is about 1498 persons. The details of cost for environmental protection measures are as follows:

		Ph	ase -I	Phase -II		
S. No.	Particulars	Capital cost in Lakh	Recurring cost / annum In Lakh	Capital cost in Lakh	Recurring cost / annum in Lakh	
1	Air pollution control	10000	500	10000	500	
2	Environment Laboratory	50	10	0		
3	Environmental Monitoring	375	40	200	30	
4	Water pollution control & Water Management (STP)	300	30	0	0	
5	Noise pollution control	50	5	0	0	
6	Occupational Health (Initial & Periodical	278.5	50	0	0	
7	Organic Waste Converter & its facilities	20	3	0	0	
8	Greenbelt and plantation	1000	50	0	0	
9	Drip Irrigation system & Water Sprinkling	200	10	0	0	
10	RWH pond and Storm Water Management	100	5	50	5	
11	Others (Housekeeping and Municipal waste management)	100	25	100	25	

12	Road Sweeping Machine	350	20	125	10
13	AFR and Storage of Haz /non Haz waste Shed	2000	20	500	10
14	TestingLabforCoprocessingofHazardousWaste/NonHaz.wasteotherWaste/Non	300	30	0	30
15	Cover Shed and Silos for Raw materials and finish products	2500	35	1500	35
16	Hazardous Waste and E waste management facility	76.5	17	25	5
	Grand Total (lakh)	17700	850	12500	650
	Grand Total in Crore	177	8.50	125	6.50
Bo	oth Phase (Total in Crore)	302	15.0	-	-

- 24.3.14 Proposed greenbelt will be developed in 124.59 ha which is about 33% of the total project area. Thus, a total of 124.59 ha (33% of total project area) will be developed as greenbelt. A 20 m wide greenbelt, consisting of at-least 3 tiers around plant boundary will be developed as greenbelt and green cover as per CPCB/MoEFCC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 3,11,475 saplings will be planted and nurtured in 124.59 ha in 03 years.
- 24.3.15 It has been reported by PP that, there is no violation under EIA Notification, 2006/court case/show cause/direction related to the project under consideration.

Written representations:

24.3.16 During the meeting, based on the deliberations made by the EAC, the project proponent vide letter dated 28.02.2023 through email dated 28.02.2023 submitted the following information:

S No	Details/Documents,	Wandar Comant Limitad's Panly		
5. 110.	Clarification sought	wonder Cement Limited's Reply		
1.	PP should submit the revised	PH Action Plan plan has been revised to 1.07% total project		
	CER plan for the 1 % of Total	cost of i.e 45.07 Crores.		
	project cost.	Revised PH Action Plan is updated at para 24.3.12 above.		
2.	PP should update plant layout	Updated and revised plant layout is submitted.		
	with proper demarcation of			
	nursery and shown uniform			
	coding for proposed green belt.			
3.	PP should submit Justification for	District Collector, Jaisalmer, Govt. of Rajasthan vide order		
	reduction in the proposed project	dated 24 th March 2022 reserved 377.5487 Ha. land for		
	area from 377.54 Ha to 377.065	establishment of Large Scale Industry, Cement Plant to Wonder		
	Ha.	Cement Limited. Vide Annexure A to the referred letter,		
		reserved land comprises of 26 khasra having total land area		

S. No.	Details/Documents, Clarification sought	Wonder Cement Limited's Reply
	Clarification sought	377.5487 ha. including Khasra number 1622 (listed at SI no. 25) having the area of 3.0013 out of which 1.9462 reserved to Wonder Cement Limited. (Copy submitted). Further office of the District Collector- Jaisalmer vide letter dated 27 th May 2022 (Copy submitted) issued the amendment order, to read 377.0650 ha in place of total land 377.5487 ha reserved for industrial purpose for establishment Cement Plant and to read old Khasra Number 1622 (listed at SI no. 25 of annexure -A) having total area 3.0013 ha out of which 1.9462 reserved for industrial purpose for establishment of cement plant with new khasra no. 2138 having the total area 1.5209 out of which 1.4625 ha is reserved for industrial purpose for industrial purpose for the establishment of Large Scale Industry Cement Plant by
		M/S Wonder Cement Limited. Due to aforesaid amended in the order, the total land area for the proposed cement plant is reduced/revised from 377.5487 Ha to 377.065 ha. Subsequently, Joint Secretory, Department of Industries and Commerce, Govt. of Rajasthan granted the permission for allotment of 377.065 ha land for industrial purpose under the provisions of Rajasthan Industrial Area Allotment Rules, 1959 vide letter dated 5 th Dec 2022 (Copy submitted) to Wonder Cement limited for setting up proposed Cement Plant. Further, to the permission granted for allotment of 377.065 ha land for industrial purpose, District collector allotted the said land to M/S Wonder Cement Limited vide their order dated 2 nd Feb 2023 (Copy submitted) for the establishment of cement plant for an area of 377.065 ha.
4.	PP should submit the approval regarding diversion of Road passing through proposed Cement Plant	PWD department has granted their permission for diversion of Road passing through proposed Cement Plant vide letter dated 11-04-2022 (Copy submitted). Subsequently, wonder Cement Limited has signed MOU with PWD department to divert the referred Road. (Copy of MoU submitted).
5.	Justification for Groundwater sampling at only one location.	Groundwater sampling was done at only one location during the study period; as there was no other source available for collecting groundwater in 10 km radius study area.
6.	PP should submit the undertaking , to engage and take the technical support of Arid Forest Research Institute (AFRI), Jodhpur and or Central Arid Zone Research Institute (CAZRI), Jodhpur organizations for developing	Undertaking dated 28.02.2023 to engage and take the technical support of Arid Forest Research Institute (AFRI), Jodhpur and or Central Arid Zone Research Institute (CAZRI), Jodhpur organizations for developing green belt, plantation in our proposed Integrated Cement Plant is submitted.

S. No.	Details/Documents, Clarification sought	Wonder Cement Limited's Reply
	green belt, plantation in our	
	proposed Integrated Cement	
	Plant.	

Deliberations by the Committee

- 24.3.17 The Committee noted the following:
 - The instant proposal is for setting Integrated Cement Project: Clinker 8.0 Million TPA (2 x 4.0 Million TPA), Cement - 5.0 Million TPA (2 x 2.5 Million TPA), CPP - 40 MW (2 x 20 MW), WHRS - 40 MW (2 x 20 MW) in phased manner along with Railway Siding.
 - 2. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.
 - 3. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.
 - 4. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.
 - 5. Total land required for the project is 377.065 ha (Entirely Government alienated barren land). Total land has been allotted to Wonder Cement Limited by District Collector, Jaisalmer Govt. of Rajasthan Vide Order dated 24th March 2022 and subsequent amendment on 27th May 2022. Subsequently, Joint Secretory, Department of Industries and Commerce, Govt. of Rajasthan granted the permission for allotment of 377.065 ha land for industrial purpose under the provisions of Rajasthan Industrial Area Allotment Rules, 1959 vide letter dated 5th Dec 2022 to Wonder Cement limited for setting up Integrated Cement Plant.
 - 6. The nearest habitation to plant are Parewar (~0.8 km, SSW), Tulsiram ki Dhani (~1.3 km, NE) and Leela Parewar (~2.4 km, SW).
 - 7. The total water requirement is 2300 KLD, which will be sourced from Indira Gandhi Canal / Nehar project (Sagarmal Gopa Branch). Permission for the same has been obtained from Indira Gandhi Nahar Department for withdrawal of 1700 KLD vide their

letter no. F. 6(3) IGNB/2021 dated 15th March, 2022. Permission for balance water requirement i.e., 600 KLD will be obtained from the concerned authority.

- 8. Proposed greenbelt will be developed in 124.59 ha which is about 33% of the total project area. Total no. of 3,11,475 saplings will be planted and nurtured in 124.59 ha in 03 years. The committee deliberated on the greenbelt development plan and found it satisfactory.
- 9. The Committee has found that the baseline data and incremental GLC due to the proposed project within NAAQ standards.
- 10. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
- 11. The Committee also deliberated on the public hearing issues along with revised action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.
- 12. The Committee deliberated upon the written submission of the Project Proponent and found it satisfactory.
- 13. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.
- 14. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, operation of the project.

Recommendations of the Committee

24.3.18 In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal for grant of Environment Clearance **subject to uploading the written information** on Parivsh portal under the provisions of EIA Notification, 2006 subject to stipulation of following specific conditions and general conditions as per the Ministry's Office Memorandum No. 22-34/2018-III dated 9/8/2018 based on project specific requirements:

A. Specific conditions:

- (i) The PP shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (ii) The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing

more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.

- (iii) The nearest habitation to plant are Parewar (~0.8 km, SSW), Tulsiram ki Dhani (~1.3 km, NE) and Leela Parewar (~2.4 km, SW). Project Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The PP shall also include some of these locations in its environmental monitoring programme.
- (iv) Village road passing through the plant area shall be diverted as per the MOU signed with PWD department.
- (v) As committed, PP shall adopt villages and formulate Village Adoption program consisting of need-based community development activities, to develop them into model villages.
- (vi) The water requirement for the proposed project of 2300 KLD, which will be sourced from Indira Gandhi Canal / Nehar project (Sagarmal Gopa Branch). Necessary permissions shall be obtained from the Competent Authority in this regard. No ground water abstraction is permitted.
- (vii) The PP shall explore the conversion of desert area in to the green one on pilot basis. In this regard, the PP shall conduct the studies with the guidance of the Central Arid Zone Research Institute. The PP shall also use the best available technology and best available practice prescribed in the various documents issued under the convention of UNCCD (India is the Party under the Convention).
- (viii) Three tier Green Belt shall be developed with majority in the 1st year covering at least 33% of the total project area as per the submitted plan with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall also develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards the villages namely Parewar (~0.8 km, SSW), Tulsiram ki Dhani (~1.3 km, NE) and Leela Parewar (~2.4 km, SW) within the plant premises. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
 - (ix) Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.
 - (x) The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. MSW waste shall be treated in digester and recovered gas shall be used in the canteen.
 - (xi) The PP shall also undertake rain water harvesting measures as per the plan submitted in the EIA/EMP report and reduce water dependence from the outside source.
- (xii) All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains to trap the run off material.
- (xiii) All internal and connecting road to the Highway shall be black topped/ concreted with suitable load in term of Million Standard Axle (MSA) as per IRC guidelines.

- (xiv) Performance monitoring of pollution control equipment shall be taken up yearly and compliance status in this regard shall be reported to the concerned Regional Office of the MoEF&CC.
- (xv) Dioxin and furans shall be monitored twice a year during co-processing of hazardous waste and report shall be submitted to the Regional Office of the MoEF&CC.
- (xvi) Particulate matter emissions from all the stacks shall be less than 30 mg/Nm³.
- (xvii) DeSOx system shall be provided dry type. NOx level shall be maintained below 600 mg/Nm³ by using best available technology.
- (xviii) Petcoke dosing shall be controlled automatically to control SO₂ emission from chimney within the prescribed limits.
 - (xix) PP shall identify the Source of fluoride emissions and action plan to mitigate the same shall be implemented.
 - (xx) The railway siding from Sanu Railway station ashall be completed as per the timebound action plan submitted with the EIA/EMP report.
- (xxi) A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
- (xxii) Action Plan for fire fighting system including provision for flame detectors, temperature actuated heat detectors with alarms, automatic sprinkler system, fixing the location of fire water tanks, separate power system for fire fighting, involvement of qualified and trained fire personnel, nearest fire station & time required to reach the proposed site shall be prepared and implemented.
- (xxiii) All the recommendations made in the risk assessment report shall be implemented and compliance status in this regard shall be furnished to the Regional Office of the MoEF&CC along with the six monthly compliance report.
- (xxiv) All the commitments made to the public during the Public Hearing/Public Consultation shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
- (xxv) The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.
- (xxvi) The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist

water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.

B. General conditions

I. Statutory compliance:

i. The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25thAugust, 2014 (Cement) and subsequent amendment dated 9thMay, 2016 (Cement) and 10th May, 2016 (in case of Co-processing Cement); as amended from time to time; and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.
- iii. The project proponent shall install system carryout to Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120°each), covering upwind and downwind directions.
- iv. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
- vi. The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.
- vii. Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.
- viii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- ix. Ensure covered transportation and conveying of raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash.
- x. Provide wind shelter fence and chemical spraying on the raw material stock piles; and

- xi. Provide Low NOX burners as primary measures and SCR /NSCR technologies as secondary measure to control NOX emissions.
- xii. Have separate truck parking area and monitor vehicular emissions at regular interval.
- xiii. Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by the use of covered conveyor belts/railways as a mode of transport
- xiv. Ventilation system shall be designed for adequate air changes as per ACGIH document for all tunnels, motor houses, cement bagging plants.

III. Water quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25thAugust, 2014 (Cement) and subsequent amendment dated 9thMay, 2016 (Cement) and 10th May, 2016 (in case of Co-processing Cement) as amended from time to time; and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall regularly monitor ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- iii. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- iv. Garland drains and collection pits shall be provided for each stock pile to arrest the runoff in the event of heavy rains and to check the water pollution due to surface run off
- v. Water meters shall be provided at the inlet to all unit processes in the cement plant.
- vi. The project proponent shall make efforts to minimize water consumption in the cement plant complex by segregation of used water, practicing cascade use and by recycling treated water.

IV. Noise monitoring and prevention

- i. Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

V. Energy Conservation measures

- i. Waste heat recovery system shall be provided for kiln and cooler.
- ii. The project proponent makes efforts to achieve power consumption less than 65 units/ton for Portland Pozzolona Cement (PPC) and 85 units/ton for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker.
- iii. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.
- iv. Provide the project proponent for LED lights in their offices and residential areas.

VI. Waste management

i. Used refractories shall be recycled as far as possible.

VII. Green Belt

- i. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration by trees in the plant premises.
- Project proponent shall submit a study report within six months on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitorable with defined time frames.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.
- iii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

IX. Environment Management

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
- ii. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.

X. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- ix. The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.
- x. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xi. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

- xiv. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xv. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Re-consideration of Environmental Clearance Proposal

Agenda No. 24.4

24.4 Expansion in Existing Environmental Clearance granted capacity of Integrated Cement Plant - Clinker: 2.0 to 4.5 million TPA, Cement: 4.0 to 6.0 Million TPA, Waste Heat Recovery Power Generation: 20 to 40 MW and installation of Captive Power Plant: 25 MW, DG Sets of 2000 KVA (1000/500/250/125 KVA) along with Railway Siding at Village: Gothra, Tehsil: Nawalgarh, District: Jhunjhunu, Rajasthan by M/s Shree Cement Limited -Re-Consideration of Environmental Clearance.

[Proposal No.: IA/RJ/IND1/407182/2022; File No. J-11011/1173/2007-IA.II (I)] [Consultant: J.M. EnviroNet Pvt. Ltd.; Valid upto : 07.08.2023]

- online 24.4.1 Cement Limited has made an application vide Shree proposal no. IA/RJ/IND1/407182/2022 dated 2nd December, 2022 along with copy of EIA/EMP Report, Forms (Part A, B and C) and Certified Compliance Report seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006, as amended thereof for the project mentioned above. The proposed project activity is listed at schedule no. 3(b) Cement Plants and 1(d) Thermal Power Plants under Category "A" of the schedule of the EIA Notification, 2006 and appraised at Central Level.
- 24.4.2 Name of the EIA consultant: M/s. J.M. Environet Pvt. Ltd. [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/2023/SA 0172; Valid up to 07.08.2023, as on February 27, 2023.
- 24.4.3 The proposal cited above was considered during the 19th EAC meeting held during 16th & 19th December 2022. After detailed deliberation, it was observed by the EAC that:
 - The existing project was initially accorded EC from MoEF&CC, New Delhi for Integrated Cement Plant (Clinker: 2.0 Million TPA, Cement: 3.0 Million TPA), CPP: 36 MW, WHRS: 15 MW and Limestone Mine (ML Area: 624 ha) with limestone production capacity of 3.2 Million TPA; further validity of same for 3 years was extended vide letter dated 29th September, 2016; which was expired on 14th July, 2019 for Integrated Cement Plant, whereas the same EC is valid for Captive Limestone Mines upto 14th July, 2039. Due to expiry of earlier granted EC, a fresh EC of Integrated Cement Plant on same project site with revised capacities (Clinker: 2.0 Million TPA, Cement: 4.0 Million TPA,
Waste Heat Recovery Power Generation: 20 MW, Captive Power Plant: 25 MW and D.G. Sets of 2000 KVA) was granted by MoEF&CC vide letter dated 3rd February 2021. Integrated Cement Plant with production capacity 2.0 Million TPA Clinker, 3.0 Million TPA Cement, granted by RSPCB vide letter dated 28.02.2019. Based on EC obtained from MoEF&CC, the project is under construction of utilities & infrastructure development and yet not operational.

- 2. The EAC noted that instant proposal is a part of Interlinked project. Limestone Mine (ML No.: 47/2007& ML Area: 624 ha.) with existing production capacity of 3.2 Million TPA located at Village: Gothra, Tehsil: Nawalgarh, District: Jhunjhunu (Rajasthan). Environmental Clearance for the mine has been obtained from MoEF&CC, New Delhi vide letter no. J-11011/1173/2007-IA II (I) dated 15th July, 2009 (valid up to 14th July, 2039). To cater the limestone requirement after Expansion of Integrated Cement Plant from Environmental Clearance granted Capacity, a separate EC application (Proposal No. IA/RJ/MIN/272197/2022 dated 11.05.2022) for increase of limestone production capacity from 3.2 to 6.822 Million TPA was submitted to MoEF&CC. The proposal was considered in the 53rd EAC meeting of Non-Coal Mining (NCM) Sector held during 28th – 29th June, 2022. The project proponent submitted the proposal for Terms of Reference for Expansion in Limestone Production Capacity from 3.2 Million TPA to 6.822 Million TPA (Total Excavation: 27.298 Million TPA). After, the detailed deliberations, the Committee (NCM) noted that the project proponent has started production in the year 2021-22 and has achieved a production of 478.18 tonnes only out of the 3.2 MTPA production limit granted in the earlier Environmental Clearance letter dated 15.07.2009. Also, the Committee (NCM) observed that that there will be an instant shock load on the environment by jumping twice the production capacity granted in previous Environmental Clearance. The EAC (NCM) felt that the Environmental Management Plan (EMP) which is in place cannot be fully tested at this juncture since the production capacity reached by the project proponent is way beyond the prescribed limit. The EAC (NCM) was of the opinion that this project must first achieve at least 50% capacity of the EC granted for generating pragmatic baseline data for appraisal by the Committee. Furthermore, the project proponent is advised to submit the compliance in terms of plantation, efficacy of EMP on the maximum production that it achieves before seeking expansion. Therefore, the Committee (NCM) deferred the proposal. The EAC noted that PP has hided this information and these facts are not submitted before the EAC neither in presentation nor in the Report. In view of the same, the EAC (Industry-1) seeks clarification from the PP regarding fulfilling the limestone requirement for the proposed expansion in the instant application.
- **3.** On perusal of kml file, the EAC noted that there are number of the schools adjacent to the project site (Three corners of the boundary of the project) and within the study area. However, PP has not reported this neither in the EIA/EMP Report nor in the Presentation. The EAC also observed that there is a habitation inside the project boundary, though PP has reported that there is no habitation within the plant site and hence R&R is not applicable. Further PP has reported that the nearest habitation to the project site include Gothra (0.5 Km, NE), Dhani Kanakawali (1.5 km, WSW), Jhajhar (1.5 km, WNW), Basawa (2 km, SSW), Keswa Ki Dhani (2 Km, NE), Neharon Ki Dhani (3 km, SSe) and Bhairoo Ki Bas (3 km, NNW). There are approx. 43 other villages in 10 km radius study

area of the project site. Considering the Environmental Sensitivity to the adjacent schools and habitation in the area, the EAC opined that it is prudent to inspect the area for understanding the ground reality as the area appears to have rich habitation.

- 4. 1000 m³/day water is proposed for the expansion project which is proposed to be sourced from STP Treated Water of Nagar Palika, Nawalgarh/ Ground Water/ Mine Pit. The EAC deliberated on water consumption and consequently the ETP/STP capacity and is of the view that the quantity of water requirement is not justified and there is a need to understand the water balance along with the source of water available near the project site as PP has also proposed the ground water as source of water.
- 5. The PP shall submit the compliance status of earlier commitments and its implementation status along with details of expenditures on the issues raised during the PH while granting the EC in February 2021.
- 6. Existing greenbelt (GB) is developed in 3.7 ha area (6476 Nos saplings) only which is about 2.47% of the total project area. The Committee deliberated that EC was granted long back in 2009 and further in 2021 and still the greenbelt development is very poor. The GB width along plot boundary is too small. It must be around 40 m to incorporate 3 tier GB design. Further for 49.40ha of Gb the PP to plant 123500 trees. PP shall ensure around 1200cum water per day for the proposed GB sustainability.
- 7. Thus, in view of the above observations the EAC is of the opinion that it is pertinent to undertake site visit to understand the ecological/environmental sensitivity of the area to the schools and local habitation, fulfilment of raw material (limestone), water consumption, sources & treatment proposed in project, greenbelt development at the project site.
- 24.4.4 In view of the foregoing and after deliberations, the Committee recommended to defer the proposed project and recommended for site visit of the proposed project area by a subcommittee of EAC Industry-1 members comprising of Dr. J.K. Pandey, Dr. S. Raghavan and Representative of MoEFCC to conduct the site visit and submit the Report. The proposal shall be appraised based on the findings of the sub-committee and deliberation of EAC.
- 24.4.5 Accordingly, the EAC (Industry-1) sub-committee conducted a site visit to M/s. Shree Cement Limited, located at Village: Gothra, Tehsil: Nawalgarh, District: Jhunjhunu, Rajasthan during 13-14th January 2022.
- 24.4.6 At this instance, the proposal was further considered by the EAC (Industry 1) in its 24th meeting of the EAC for Industry-I sector held on 28th February 1st March, 2023. The details of the proposed project are as follows:

Details submitted by Project proponent

24.4.7 The details of the ToR are furnished as below:

Date of	Consideration	Details	Date of	ToR
Application			accord	Validity

Date of	Consideration	Details	Date of	ToR
Application			accord	Validity
11 th May,	Standard ToR was issued by	Standard Terms of	08 th June,	07 th June,
2022	MoEF&CC	Reference	2022	2026

24.4.8 The project of M/s. Shree Cement Limited located at Gothra Village, Nawalgarh Tehsil, Jhunjhunu District, Rajasthan is for expansion in existing Environmental Clearance granted capacity of Integrated Cement Plant - Clinker: 2.0 to 4.5 Million TPA, Cement: 4.0 to 6.0 Million TPA, Waste Heat Recovery Power Generation: 20 to 40 MW and installation of Captive Power Plant: 25 MW, DG Sets of 2000 KVA (1000/500/250/125 KVA) along with Railway Siding.

24.4.9 Environmental Site Settings:

S. No.	Particulars		Detai	ls submitted	by the l	PP	Remarks
i.	Total land	Total Lar	nd Are	ea of the Inte	egrated	Cement Plant	Land use: Industrial
		Site inclu	ıding	Land			
		which, 3.9	92 ha.				
		connectin	g area				
		land area	of In	ntegrated Cer	ment Pl	ant including	
		residentia	l colo	ny is 149.70	ha; Out	of 149.70 ha	
		i.e., effect	tive ar	ea of the site	e, 135.34	ha is for the	
		Integrated	Cer	nent Plant	(includi	ing 49.2 ha	
		common	area	of plant &	& mine	e lease) and	
		remaining	14.30	6 ha area is 1	reserve	for residential	
		Colony.					
	Land acquisition details as	Total land	l is un	der the posses	ssion of	the company.	-
ii.	per MoEF&CC O.M.						
	dated 7/10/2014.						
	Existence of habitation &	Plant Sit	e: No	habitation e	xists wi	thin the plant	-
iii.	involvement of R&R, if	site and R	&R is	not applicab	le.		
	any.	Study Ar	ea:				
		Habita	tion	Distance	(km)	Direction	
		Goth	ra	~0.50 K	Km	NE	
		Dhar	ni	~1.50 K	Km	WSW	
		Kanaka	wali				
		Jhajh	ar	~1.50 K	Km	WNW	
		Basav	va	~2.0 K	m	SSW	
		Keswa	Ki	~2.0 K	m	NE	
		Dhar	ni				
		Neharon	n Ki	~3.0 K	m	SSE	
		Dhar	ni				
		Bhairoo	o Ki				
		Bas					
		There are	e appi				
		radius stu	dy are				
	Latitude and Longitude of	Point	Ī	-			
iv.	all corners of the project	19.	27°4	8'03.82''N	75°19	'47.11"E	
	site						

S. No.	Particulars		Details sub	mitted	by the l	PP	Remarks
		20.	27°47'33.3	9"N	75°20	'32.69"E	
		21.	27°47'59.0	2"N	75°20	'26.98"E	
		22.	27°47'14.4	3"N	75°20	0'27.46"E	
		23.	27°47'54.6	8"N	75°20	0'25.51"E	
		24.	27°47'22.9	8"N	75°19	'41.33"E	
		25.	27°47'53.9	7"N	75°20	0'28.85"E	
		26.	27°47'35.6	4"N	75°19	'37.49"E	
		27.	27°47'36.1	3"N	75°20	0'20.64"E	
		28.	27°47'35.9	2"N	75°19	'44.51"E	
v.	Elevation of the project site	415 m to	422 m above	e mean	sea leve	el.	-
	Involvement of Forest	No Forest	t Land is inv	olved in	n the pla	ant site.	-
vi.	land if any.				1		
	Water body (Rivers,	Plant site	e: No water	body e	exists wi	ithin the plant	-
vii.	Lakes, Pond, Nala,	site.		•			
	Natural Drainage, Canal	Study ar	ea: Followin	ng wate	er body	fall within 10	
	etc.) exists within the	km radius	5:				
	project site as well as	Wate	er body	Dist	tance	Direction	
	study area			(k	m)		
		Udaipur	Lohagarh	~4.01	ĸm	ENE	
		Ki Nadi					
viii.	Existence of	Nil.					-
	ESZ/ESA/national park/						
	wildlife sanctuary/						
	biosphere reserve/tiger						
	reserve/elephant reserve						
	etc. if any within the						
	study area.						
ix	Interlinked Project	• Limes	tone Mine	(ML	No.: 4'	7/2007& ML	
		Area:	624 ha.)	with	existing	g production	
		capaci	ty of 3.2 Mi	llion Tl	PA loca	ted at Village:	
		Gothra	ı, Tehsil: Na	walgar	h, Distri	ict: Jhunjhunu	
		(Rajas	than). Envir	onmen	tal Clea	trance for the	
		mine h	as been obt	ained fi	rom Mo	EF&CC, New	
		Delhi	vide letter i	10. J-11	1011/11	73/2007-IA II	
		(1) dat 2039).	ed 15 th July,	2009	(valid u	p to 14 th July,	
		• To ca	ater the li	meston	e reau	irement after	
		Expan	sion of Inte	egrated	Cemer	nt Plant from	
		Enviro	nmental Cl	earance	grante	d Capacity. a	
		separa	te EC appli	cation 1	for Goth	ra Limestone	
		Mine	with limesto	ne pro	duction	capacity from	
		3.2 to	6.822 Millio	n TPA	is unde	r process with	
		MoEF	&CC.			•	

24.4.10 The existing project was initially accorded Environmental Clearance from MoEF&CC, New Delhi for Integrated Cement Plant (Clinker: 2.0 Million TPA, Cement: 3.0 Million TPA),

CPP: 36 MW, WHRS: 15 MW and Limestone Mine (ML Area: 624 ha) with limestone production capacity of 3.2 Million TPA at Village: Gothra, Tehsil: Nawalgarh, District: Jhunjhunu (Rajasthan) of Shree Cement Ltd.; further validity of same for 3 years was extended vide letter dated 29th September, 2016; which was expired on 14th July, 2019 for Integrated Cement Plant, whereas the same EC is valid for Captive Limestone Mines upto 14th July, 2039. Due to expiry of earlier granted EC, a fresh EC of Integrated Cement Plant on same project site with revised capacities (Clinker: 2.0 Million TPA, Cement: 4.0 Million TPA, Waste Heat Recovery Power Generation: 20 MW, Captive Power Plant: 25 MW and D.G. Sets of 2000 KVA) was granted by MoEF&CC vide letter no. J-11011/1173/2007-IA.II (I) dated 03rd February 2021. Integrated Cement Plant with production capacity 2.0 Million TPA Clinker. 3.0 Million TPA Cement, located at Village: Gothra, Tehsil: Nawalgarh, District: Jhunjhunu (Rajasthan) of Shree Cement Limited granted by RSPCB vide letter no. F(CPM)/Jhunjhunu (Nawalgarh)/2(1)/2018-2019/ 7228-7230 and vide Order No. 2018-2019/CPM/5424 dated 28.02.2019, Validity: 14.06.2018 to 31.05.2023. Based on EC obtained from MoEF&CC, the project is under construction of utilities & infrastructure development and yet not operational. Consent to Establish for Integrated Cement Plant with production capacity 2.0 Million TPA Clinker, 3.0 Million TPA Cement, granted by RSPCB vide letter no. F(CPM)/Jhunjhunu (Nawalgarh)/2(1)/2018-2019/ 7228-7230 and vide Order No. 2018-2019/CPM/5424 dated 28.02.2019 Validity: 14/06/2018 to 31/05/2023, Consent to Establish for Additional Cement production capacity 1.0 Million TPA Cement granted by RSPCB vide letter no. F(CPM)/ Jhunjhunu (Nawalgarh)/ 2(1)/2018-2019/636-638 and vide Order No. 2021-2022/CPM/5701 dated 15.06.2021 with Validity: 02.03.2021 to 28.02.2026, & Captive Power Plant of 36 MW, WHRS of 20 MW granted by RSPCB vide letter no. F(CPM)/Jhunjhunu(Nawalgarh)/2(1)/2018-2019/7793-7795 and vide Order No. 2018-2019/CPM/5447 dated 26.03.2019 Validity: 14.06.2018 to 31.05.2023 and Residential Colony granted vide letter no. F(CPM)/Jhunjhunu(Nawalgarh)/2(1)/2018-2019/5858-5860 and vide Order No. 2021-2022/CPM/8544 dated 24.01.2022 Validity: 03.11.2021 to 31.10.2026.

Facilities Envisaged	Consent Status (CTE)	Implementation Status	Production details as per CTE
Clinker	Integrated Cement Plant with production capacity 2.0 Million TPA Clinker, 3.0 Million TPA Cement,	At present, the project is under	2.0 Million TPA
Cement	located at Village: Gothra, Tehsil: Nawalgarh, District: Jhunjhunu (Rajasthan) of Shree Cement Limited granted by RSPCB vide letter no. F(CPM)/Jhunjhunu (Nawalgarh)/2(1)/2018-2019/ 7228-7230 and vide Order No. 2018- 2019/CPM/5424 dated 28.02.2019 Validity: 14.06.2018 to 31.05.2023	construction of utilities & infrastructure development and yet not operational.	3.0 Million TPA
	Additional Cement production capacity 1.0 Million TPA Cement located at Village: Gothra, Tehsil: Nawalgarh, District: Jhunjhunu (Rajasthan) of Shree Cement Limited granted by RSPCB vide letter no. F(CPM)/ Jhunjhunu (Nawalgarh)/ 2(1)/2018- 2019/636-638 and vide Order No. 2021-		1.0 Million TPA

	2022/CPM/5701 dated 15.06.2021 Validity: 02.03.2021 to 28.02.2026		
CPP	Captive Power Plant of 36 MW, WHRS of 20 MW	At present, the	36 MW
WHRS	located at Village: Gothra, Tehsil: Nawalgarh, District: Jhunjhunu (Rajasthan) granted by RSPCB vide letter no. F(CPM)/Jhunjhunu(Nawalgarh)/2(1)/2018- 2019/7793-7795 and vide Order No. 2018- 2019/CPM/5447 dated 26.03.2019 Validity: 14/06/2018 to 31/05/2023	project is under construction of utilities & infrastructure development and yet not operational	20 MW

24.4.11 Implementation status of the existing EC:

S.	Facilities	Units	As per EC	Implementation	As per CTO
No.			dated 03 rd	Status as on date	
			February		
			2021		
1.	Clinker	Million	2.0	Not implemented	At present, the
		TPA			project is under
2.	Cement	Million	4.0	Not implemented	construction for
		TPA			utilities &
3.	WHRS	MW	20 MW	Not implemented	infrastructure
4.	CPP	MW	25 MW	Not implemented	development and
5.	D.G.	KVA	2000	Not implemented	yet not
	Sets				operational.

24.4.12 The unit configuration and capacity of existing and proposed project is given as below:

S.	Plant	Existi	ng Facilitie	es as per	EC dated	03 rd Februar	y, 2021	Propose	ed Unit*	Final (Ex	kisting +
No.	Equipment /	Total	(A + B)	Imple	mented	Un - impl	emented			Proposed)	
	Facility			(A)	A) (B))			
		Config	Capacity	Config	Capacity	Config	Capacity	Capacity Config Capac		Config	Capacity
		uration		uration		uration		uration		uration	
1.	Clinker*	Kiln:	2.0	-	-	Kiln:	2.0	Kiln:	2.5	Kiln:	4.5 Million
		1 x 6700	Million			1 x 6700	Million	1 x 7500	Million	1 x 13500	TPA
		TPD	TPA			TPD	TPA	TPD	TPA	TPD	
2.	Cement	VRM /	4.0	-	-	VRM / Ball	4.0	VRM	2.0	VRM	6.0 Million
		Ball mill	Million			mill with	Million	2 x 9000	Million	18000 TPH	TPA
		with	TPA			Roller Press:	TPA	TPH	TPA		
		Roller				1 x 13400					
		Press:				TPD					
		1 x									
		13400									
		TPD									
3.	CPP	CPP	25 MW	-	-	CPP Boiler	25 MW	-	-	CPP Boiler	25 MW
		Boiler				1 x 136 TPH				1 x 136 TPH	
		1 x 136									
		TPH									

4.	WHRS	PH &	20 MW	-	-	PH & AQC	20 MW	PH &	20 MW	PH & AQC	40 MW
		AQC				Boiler		AQC		Boiler	
		Boiler				(20 MW)		Boiler		(40 MW)	
		(20 MW)						(20 MW)			
*C	*Clinker will also be sent to the sister grinding units, market sale (through rail and road) and will also be received from outside										
or	or sister units of SCL, if clinker unit is not in operation or in case of shortfall of clinker.										

24.4.13 The details of the raw material requirement for the proposed project along with its source and mode of transportation is given as below:

S.	Name of Raw	Quant	ity (MTPA	A)	Source	Distance	Mode of
No.	Material	Existing	Additio	Total		from site	Transportati
			nal			(Kms)	on
For Cl	inker						
1.	Limestone	3.2	3.622	6.822	Captive limestone	Adjacent to	Covered
					mine	the plant	Conveyor belt
2.	Laterite/ Iron	0.06	0.0075	0.0675	Laterite from	280 - 400	By Road
	ore/ Mill scale/				Bhilwara, Lead zinc	km	
	Lead Zinc				slag, Iron ore and red		
	Slag				ochre from		
					Chittorgarh (Raj.)		
					and mill scale from		
					Mandi Gobindgarh,		
					Punjab		

Raw material requirement - OPC/RHPC/SRC/PPC/PSC/Composite Cement

SN	Raw	Re	equiren	nent (in	Million TPA	A) for Cen	nent Pr	oductio)n ***	Source	Distance
	Material	Existing	g Capac	city as p	per granted	Total (Capacit	y after	expansion		(in km) and
			Ε	C **							Mode of
		OPC /	PPC	PSC	Composite	OPC /	PPC	PSC	Composite		transportation
		RHPC/			Cement	RHPC/			Cement		
		SRC				SRC					
1	Clinker*	2.00	2.32	1.52	1.52	5.58*	3.48	2.28	2.28	Expansion of	via Covered
										clinker unit (4.5	Conveyor
										Million TPA)	Belt
										Within Plant	
2	Gypsum	0.15	0.28	0.28	0.28	0.42	0.42	0.42	0.42	Mineral &	170 to 300
										Chemical Gypsum	By Road &
										from Nagaur and	Rail
										Bikaner (Raj.);	950
										Synthetic Gypsum	Kandla Port
										from sister units of	By Road &
										SCL at Beawar	Rail
										(Ajmer) and Ras	
										(Pali);	
										Imported Gypsum	
										from Oman &	
										Pakistan via Kandla	
										Port	
3	Fly ash	-	1.4	-	1.4	-	2.10		2.10	Panipat Thermal	230 to 300

SN	Raw	Re	equiren	nent (in	Million TPA	A) for Cen	ient Pr	oductio	n ***	Source	Distance
	Material	Existing	g Capac	ity as p	per granted	Total (Capacit	y after	expansion		(in km) and
			E	C **					-		Mode of
		OPC /	PPC	PSC	Composite	OPC /	PPC	PSC	Composite		transportation
		RHPC/			Cement	RHPC/			Cement		
		SRC				SRC					
										Power Station	By Road
										/Suratgarh Super	
										Thermal Power	
										Station (RVUNL),	
										Suratgarh & CPP	
4	Slag	-	-	2.2	0.8	-	-	3.30	1.20	Tata Steel Ltd.,	1400 to 1600
										Jamshedpur;	By Road &
										Rourkela Steel	Rail
										Plant, Rourkela;	
										Bhilai Steel Plant,	
										Bhilai, Tata Steel,	
										Jamshedpur etc.	
,	Total	2.15	4.0	4.0	4.0	6.0	6.0	6.0	6.0	-	-
* Cli	nker will al	lso be sen	t to the	e sister	grinding uni	its, market	t sale a	nd will	l also be rec	eived (rail and road)	from outside if

Clinkerization plant is not in operation or in case of shortfall of clinker.

** As per granted EC & CTE/ Under construction phase

*** Cement production will be done 6.0 Million TPA only either from various options as OPC/RHPC/SRC/PPC/PSC/Composite Cement.

- 24.4.14 The water requirement as per existing granted EC for Integrated Cement Plant is 750 KLD and the total water requirement after expansion will be 1000 KLD; which will be sourced from STP Treated Water of Nagar Palika, Nawalgarh/ Ground Water/ Mine Pit. Permission for withdrawal of 1200 KLD of Ground Water was obtained from CGWA vide NOC No. CGWA/NOC/IND/REN/1/2022/7128 which is valid up to 31st December, 2023 and an agreement has been signed on 21st July, 2020 between Shree Cement Limited and Nagar Palika, Nawalgarh for supply of 3 MLD treated sewage water to meet the requirement of nonpotable industrial applications for the project.
- 24.4.15 The power requirement as per existing granted EC is 35.6 MW. Total requirement after expansion will be 65.37 MW; out of which 25 MW will be sourced from CPP, 40 MW will be sourced from WHRS and balance will be sourced from State Grid supply and DG Sets (plant lighting in case of emergency).

Period	Mod Winter Season (December, 2021 to February, 2022)						
AAQ	• $PM_{2.5}$ 25.1 to 46.1 $\mu g/m^3$						
parameters	• PM_{10} - 51 to 83.7 $\mu g/m^3$						
at 12	• SO ₂ - 5.3 to 13.8 μ g/m ³						
locations	• NO ₂ - 10.6 to 25.5 μ g/m ³						
	• CO - BDL to 0.78 mg/m^3						
Incremental	• $PM = 2.29 \ \mu g/m^3$ (Level at 100 m in SE direction)						
GLC level	• $SO_2 = 2.41 \ \mu g/m^3$ (Level at 700 m in SE direction)						

24.4.16 Baseline Environmental Studies:

	• $NO_x = 3.97 \ \mu s$	g/m ³ (Level at 900 m i	n SE direction)					
	• $CO = 0.00030$	07 mg/m^3 (Level at 100) m in SE directio	n)				
Ground	• pH - 7.63 to 7.96							
water	• Total Hardness - 155.45 to 255.65 mg/l							
quality at 09	• Chlorides –79.65 to 186.32 mg/l							
locations	• Fluoride - 0.76 to 1.16 mg/l							
	• Heavy Metals - Iron as Fe: 0.14 to 0.26 mg/l							
Surface	Surface water sample	e could not be collecte	ed as the water be	ody is season	al water			
water	body (Udaipur Lohag	arh Ki Nadi at ~4.0 Ki	m in ENE directio	on) and was fo	ound dry			
quality	during the monitoring	g period.						
Noise levels	Noise Level During D	Day Time –50.9 to 65.6	5 Leq dB (A)					
at 08	Noise Level During N	Night Time –40.9 to 43	.6 Leq dB (A)					
locations								
Traffic	 Traffic study has 	been conducted at SH	I –8 which is app	roximately 8	.0 km in			
assessment	WNW direction	and from Village Roa	ad connecting to	MDR-25B;	which is			
study	adjacent to plant s	site.						
findings	 Transportation of 	raw material & finish	ed product will b	be done as pe	er details			
	given below:			2.51				
	 Limestone - via Covered Conveyor belt from Captive Limestone Mine 							
	Fly ash - 100% by road							
	• Gypsum (Mineral, Chemical & Imported) – 50% by road & 50% by rail							
	 Slag - 50 % by road & 50 % by rail 							
	 Iron ore - 50 % by Bouvite 50 % by 	$7 \text{ road } \propto 50\%$ by rall						
	 Dauxite - 50 % by Clinker 50 % by 	$road \approx 50\%$ by rail						
	• Cliniker $= 30\%$ by	$710ad \approx 50\%$ by rail						
	 Certifient - 50 % by PCU load after pr 	roposed project will be	- 171 15 (Existin	$(\Delta d) \pm 2/17$ (Δd	ditional)			
	PCU/br on SH _8	and 61.9 (Existing) \pm	199 75 (Addition	(Au) = 247 (Au	ge Road			
	connecting to MD	R-25B and level of se	rvice (LOS) will h	e:	ige Road			
	Road	V	C	Existing	LOS			
	Tiona	(Volume in	(Capacity in	V/C Ratio	200			
		PCU/hr.)	PCU/hr.)					
	SH-8	471.45 (Existing) +	1200	0.59	С			
		247 (Additional)						
	Village Road	61.9 (Existing) +	625	0.42	С			
	connecting to	199.75 (Additional)						
	MDR-25B							
	* Capacity as per IRC	C- 64-1990 & 106-199	0 Guidelines.	I				
	Conclusion: The leve	el of service will be "C	" i.e., Good for S	H - 8 and vill	age road			
	connecting to MDR-2	25B due to expansion	project (before i	nstallation of	railway			
	siding).							
	• PCU load after exp	ansion project (After	installation of Ra	ilway Siding) will be			
	471.45 (Existing) +	- 137 (Additional) PC	U/hr. on SH –8 a	and 61.9 (Ex	isting) +			
	111.25 (Additional)) at on Village Road	connecting to M	DR-25B and	level of			
	service (LOS) will b	be:						

	Road	V	С	Existing	LOS			
		(Volume in	(Capacity in	V/C Ratio				
		PCU/hr.)	PCU/hr.)					
	SH8	471.45 (Existing) +	1200	0.50	С			
		137 (Additional)						
	Village Road	61.9 (Existing) +	625	0.27	В			
	connecting to	111.25 (Additional)						
	MDR-25B							
	* Capacity as per IRC- 64-1990 & 106-1990 Guidelines.							
	Conclusion: The leve	el of service will be "	"C" i.e., Good for	r SH- 8 and	"B" i.e.,			
	Very Good for villag	ge road connecting to	MDR-25B after	including a	dditional			
	traffic due to expansion	on project (after install	ation of railway si	iding).				
	SCL's proposal for in	<mark>ıstallation of railway</mark> s	siding will turns o	out to be ben	eficial to			
	the environment in t	erms of global CO ₂ er	mission reduction	n, reduction	in GHG			
	emission and ultimat	tely will lead to achie	ve Sustainable D	evelopment	Goal for			
	the Indian Railway se	ector.						
Flora and	Two schedule - I spec	cies i.e., Indian Peafov	vl (<i>Pavo cristatus</i>) & Desert C	at (<i>Felis</i>			
fauna	libyca) recorded in the	he study area during f	field survey; which	ch are catego	orized as			
	Schedule - I according	g to (IWPA) Indian Wi	ildlife Protection	Act' 1972.				
	Wildlife Conservation	n Plan for all the Sche	edule- I species h	as been autho	enticated			
	by PCCF (Wildlife) Ja	aipur on 26 th Nov., 202	20.					

24.4.17 The details of solid and hazardous waste generation along with its mode of treatment/disposal is furnished as below:

S.	Туре	Waste	Source	Quantity	Mode of Treatment / Disposal
No.	of			Generated	
	Waste			(Approx.)	
1.	SW	Dust	Cement	1.0625 TPA	Dust collected from various APCEs will be
			Plant		totally recycled back into the process.
2.	SW	Fly ash	CPP	438 TPD	Will be utilized in cement manufacturing
					process (PPC & Composite Cement)
3.	SW	STP Sludge	STP	6 Kg/day	Will be used as manure in horticulture and
					greenbelt development.
3.	HW	Used / Spent Oil	Plant	100 KL / Annum	Will be generated as per Schedule- I of
		(5.1) and Waste	maintenance		Hazardous and Other Wastes (Management
		Waste/ Residue		2.0 Tonnes/	and Transboundary Movement) Rules, 2016;
		(contaminated		Annum	which will be sold to CPCB/ SPCB
		cotton rags)			authorized recycler. Used Oil/ Spent oil will
		containing oil(Cat			be filled in Empty barrels and further sold to
		5.2)			CPCB/ SPCB authorized recycler.
		Empty Barrels		300 Barrels/	
				Annum	
		E-Waste		0.15	Will be sold to registered vendors as per E-
				Tonnes/Annum	Waste Management Rules, 2016.
		Used Lead acid		100	Will be stored in the designated storage area
		batteries		Nos./Annum	and will be disposed-off/ sold to registered
					vendors as per Battery Waste Management

S.	Туре	Waste	Source	Quantity	Mode of Treatment / Disposal
No.	of			Generated	
	Waste			(Approx.)	
					Rules 2020.
4.	MSW	Bottles, paper,	Plant and	404 TPA	Municipal Solid Waste will be collected &
		cans, textile, etc.	Colony		segregated into bio- degradable & non-
5.		Kitchen and			degradable. Further, Bio- degradable waste
		canteen/ Green			will be converted into organic manure by
		waste			installation of Organic Waste Convertor
					(OWC) machine and manure will be used for
					greenbelt development & plantation and
					non-degradable waste will be sold to
					authorized vendor from CPCB/SPCB as per
					scientifically in compliance of Solid Waste
					Management rules 2016, as amended
					thereof.

24.4.18 Public Consultation:

Details of advertisement given	Public Hearing Notice published in Newspapers "Dainik Bhaskar" and
	"Rajasthan Patrika" on 17 th September, 2022
Date of Public Consultation	21 st October, 2022 at 11:00 am
Venue	Tehsil Office, Nawalgarh, Jhunjhunu (Rajasthan)
Presiding Officer	Additional District Magistrate, Jhunjhunu
Major issues raised	Issues related to Employment, Environment & Pollution, Plantation,
	Socio-economic development related, water, land, Health etc.

Action plan as per MoEF&CC O.M. dated 30/09/2020

	Concerns				Unit of Measur	rement			Tentative
S.	raised during	Physical	1 st Year		2 nd Yea	r	3 rd Yea	r	Budget
No.	the Public Hearing	done	Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	(Rs. in lacs)
1		Establishment	01 Centre		01 Centre		01 Centre		
	Employment Related	of Skill Development Training Centre	(Village Gothra & Basawa)	60	(For Villages Parasrampura & Jhajhar)	60	(Chaoudhani & Deogaon)	60	180
		Development	01 Centre		01 Centre		01 Centre		
2	Women Empowerment	of Women Empowerment Centre for Socio economic development (Skill Development training)	(For Village Parasrampura & Gothra)	50	(For Village Deogaon)	40	(For Village Jhajhar)	40	130
3	Education and Sports	Upgradations/ Renovation of	Village Gothra, Jhajhar &	142	Village Parasrampura	50	Village Basawa	50	242

	Concerns	oncerns ed during e Public Hearing			Tentative				
S.	raised during		1 st Year		2 nd Yea	r	3 rd Year	r	Budget
No.	the Public Hearing		Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	(Rs. in lacs)
	Facilities	Classrooms in Schools of nearby Villages	Choudhani						
		Development & modification of Playground and providing necessary sports equipment	Village Parasrampura & Gothra	120	Village Deogaon	60	Village Keswa Ki Dhani	40	220
		Construction of Stadium facilities	Village Parasrampura	200	Village Parasrampura	160	Village Parasrampura	160	520
		Construction and Strengthening of road network at nearby Villages connecting with SH-8 & SH-37	01 No (Village Gothra, Project site & Village Choudhani)	300	02 No. (Villages Jhajhar & Nawalgarh)	200	02 No. (Villages Dholakhera)	200	700
4	Rural Infrastructure	Infrastructure development at Goshala	02 No (Village Gothra & Deogaon)	80	02 No. (Villages Choudhani & Basawa)	80	01 Nos (Village Jhajhar)	40	200
	Development	Construction of Toilets in Nearby Villages.	02 No. (Villages Khirod & Basawa)	40	02 Nos (Villages Gothra & Parasrampura)	40	02 No. (Village Chaurhani & Jhajhar)	40	120
		Upgradation/ Renovation of Community Centers	02 Nos (Villages Gothra & Devgaon)	40	02 No. (Villages Choudhani & Basawa)	40	02 No. (Villages Jhajhar & Parasrampura)	40	120
		Installation of Solar lights	20 Nos (Villages Gothra & Basawa)	20	20 No. (Villages Deogaon & Choudhani)	20	20 No. (Villages Khirod & Pujaron ki Dhani)	20	60
5	Ground Water Conservation	Restoration of Water ponds / percolation tanks by desilting, clearing the water paths, strengthening	02 No. (Villages Gothra & Jhajar)	80	02 Nos (Villages Basawa & Keswa Ki Dhani)	80	02 No. (Villages Todpura & Parasrampura)	80	240

	Concerns		Unit of Measurement						
S.	raised during	Physical	1 st Year		2 nd Yea	r	3 rd Year	r	Budget
No.	the Public Hearing	done	Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	(Rs. in lacs)
		the banks etc., and Development of wells and stepwells Rain water harvesting on Govt. School Building	03 No. (Villages Gothra, Parasrampura & Basawa)	30	02 Nos (Villages Chaurhani & Poojari Ki Dhani)	20	01 Nos (Village Devgaon)	10	60
		Construction of Water Tanks in Nearby Villages	03 Nos. (Villages Gothra, Khirod,Todpura)	30	02 Nos (Villages Balriya & Parasrampura)	20	01 No. (Village Poojari Ki Dhani)	20	70
6	Safe Drinking Water	Installation of Water Coolers to provide safe drinking water at community places & Schools	05 No. (Village Gothra , Basawa, Pujaron ki Dhani, Jhajhar & Keswa ki Dhani)	50	04 No. (Villages Choudhani, Devipura, Khirod & Todpura)	40	04 No. (Village Parasrampura, Beri, Bhijnagar & Nawalgarh)	40	130
		Providing Mobile Medical Van (medicine & checkup) and organizing Health camps in nearby Villages	02 Nos (Villages Gothra, Basawa & Poojari ki dhani)	40	02 Nos. (Villages Parasrampura & Khirod)	40	01 No. (Villages Todpura)	20	100
7	Health	Renovation and construction of Community health center Health Centre	02 Nos (Village Khirod & Gothra)	40	02 Nos (Villages Basawa & Parasrampura)	40	01 Nos (Village Pujari Ki Dhani)	20	100
		Provide medical investigating equipment and need based support Material set	02 Nos (Village Gothra & Deogaon)	20	02 Nos (Villages Todpura & Khirod)	20	01 No. (Village Parasrampura)	10	50
8	Plantation & Agricultural and animal Husbandry	Upgrading Facilities in veterinary hospital	2 no. (Village Gothra & Deogaon)	10	2 no. (Village Chaurhani & Basawa)	10	01 Nos (Village Jhajhar)	10	30

	Concerns		Unit of Measurement						Tentative
S.	raised during	Physical	1 st Year		2 nd Yea	r	3 rd Yea	r	Budget
No.	the Public Hearing	the Public Hearing done	Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	(Rs. in lacs)
		Awareness and aid for organic farming in the nearby villages Additional	03 Nos. (Villages Gothra, Khirod, Deogaon) 25000 nos	30	02 Nos. (Villages Parasrampura & Basawa)	20	01 No. (Village Jhajhar & Pujaro Ki Dhani)	10	60
		Additional avenue plantation equal to 7% (i.e. 25000 tress) of the project site area will be done along the roads of nearby villages; new connecting road constructed from Gothra to Parasarampura; railway siding area and in the nearby villages outside the project site	(Villages Gothra, Choudhani, Parashrampura, Basawa and Deogaon)	75	-		-		75
		Sub Total	Τ.4-1	1457		1040		910	3407 3407*
Note	: *However expe	diture of 6 75 Cro	res has already been	done unde	er CER/CSR activ	vities & PH	commitments in	the nearby	340 /* area of the
site.	Villages can be i	nterchanged as per	situation demand. A	ctivities m	ay be changed as	per situatio	n and community	y requireme	ent.

24.4.19 Existing capital cost of the project was Rs. 1660 Crores. The capital cost for the after expansion is Rs. 3407.1 Crores & the capital cost for environmental protection measures is proposed as Rs. 184.79 Crores. The annual recurring cost towards the environmental protection measures for expansion is Rs. 8.81 Crores/ annum. The employment generation from the expansion project is 1500 people. The details of cost for environment protection measures are as follows:

S.	Descript	tion of Item		Existing (Rs. In Crores)	Proposed (Rs. In Crores)		
No.				Capital Cost	Recurring	Capital Cost	Recurring Cost	
				Cost	Cost			
i.	Air Pollution	n Control/	Noise	45	0.6	142.1	5.83	
	Management							
ii.	Water Pollution	Control		0.5	0.06	17.2	1.9725	
iii.	Environment	Monitoring	and	3	0.3	3.66	0.4205	

S.	Description of Item	Existing (Rs. In Crores)	Proposed (Rs. In Crores)		
No.		Capital	Recurring	Capital Cost	Recurring Cost	
		Cost	Cost			
	management					
iv.	Greenbelt Development	0.2	0.02	6.175	0.3088	
v.	Hazardous Waste Storage & Handling	-	-	0.5	0.075	
vi.	Occupational Health & Safety	0.3	0.02	0.75	0.075	
vii.	Organic Waste Converter & Its Facilities	-	-	0.15	0.0225	
viii.	Others (Housekeeping and Municipal	-	-	0.5	0.075	
	Waste Management)					
	Total	50	1.00	171.04	8.81	
ix.	Addressal of Public Consultation	16.3	-	12.5	-	
	concerns					
х.	Details of adaption of village, if any	-	-	1.25	-	
	Grand Total	66.3	1.00	184.79	8.81	

- 24.4.20 Greenbelt & Plantation is being / will be developed in ~49.40 ha which is about ~33 % of the total effective project area of 149.70 ha. Existing greenbelt has already been developed in 3.7 ha area (6476 Nos saplings) which is about 2.47% of the total project area, balance 45.70 ha (1,17,024 Nos saplings) will be developed. Native Plant species such as Neem, Amla, Imli, Shisham, Bargad, Pipal, Karanj, Mango, Gulmohar, Amaltas, Senjana, Shahtut, Siris, Gurhal, Arjun, Dubai Tree, Semal, Saptaparni, Palash, Jamun etc. is being/ will be planted @ 2500 Trees per hectare with 90% survival rate as per consultation with local forest officer and as per CPCB guidelines. Additional avenue plantation equal to 7% (i.e. 25000 tress) of the project site area will be done along the roads of nearby villages; new connecting road constructed from Gothra to Parasarampura; railway siding area and in the nearby villages outside the project site.
- 24.4.21 It has been reported by PP that, there is no violation under EIA Notification, 2006/court case/show cause/direction related to the project under consideration.

Certified compliance report from Regional Office

24.4.22 The Status of compliance of earlier EC was obtained from Integrated Regional Officer, Jaipur vide File IV/ENV/R/IND-112/750/2009 dated 18th May, 2022 in the name of M/s. Shree Cement Ltd. The site was inspected on 20th April, 2022. IRO has reported that the construction and establishment work is under process wherein construction activity of industrial unit is just initiated. Thus IRO in its report has examined the compliance of conditions and has reported that most of the conditions has been agreed to be complied by the company and few are complied.

Findings of EAC (Industry-1) sub-committee during visit:

24.4.23 The observations and recommendations of the EAC (Industry-1) sub-committee based on the site visit to M/s. Shree Cement Limited, located at Village: Gothra, Tehsil: Nawalgarh, District: Jhunjhunu, Rajasthan during 13-14th January 2022 are as follows:

Observation of Sub-committee:

- The committee visited three Schools located outside the boundary of the project and discussed with principal/head of the concerned School. It was observed that the Schools 1, 2 and 3 were located at village Dhahar Wali Johari Gothara (Govt. School), Bhakhariyon Ki Dhani (Govt. School) and Sarswati Sec. School, Gothara (Private School) with student capacity of 10, 30 and 438, respectively. Further, information about the school was observed on- and the on-line Report cards of the Schools are submitted.
- 2. A multi layered green belt plantation was observed towards school.
- 3. Total Four Houses (with about 13-14 families) in two clusters were observed within the project boundary. In one cluster, only one house was there which was locked. In another cluster, 3 houses were present and 2 were locked and a person residing in one house (having 4 families) was available for discussion. As per interaction with the available resident, one house (which was found locked) shifted to Punjab and in other 2 houses some families are residing. Both clusters of houses have been temporarily excluded/ separated from the project site with a temporary boundary wall.
- 4. With a view to see the CER activity undertaken by the PP against 2021 EC, the committee observed a sports complex under construction at Parasrampura Village and RCC road for local community developed by PP in Gothra village. The committee visited a Gaushala a Gothra village which was renovated by PP.

Recommendations of Sub-committee:

- 1. Considering the fact regarding the occurrence of all the three schools at the distance of 35 meters, 115 meters and 55 meters from the project boundary, and 970 meters, 570 meters and 1170 meters from the Stack, respectively, a dense vegetation of multi-layered plantation must be developed adjacent to schools and habitation.
- 2. Considering the environmental sensitivity to the adjacent area, PP to ensure a thick Green belt all around project boundary within the project site with three tier system.
- 3. PP to expedite the acquisition/possession of remaining houses which has not yet been vacated with proper negotiation.
- 4. Regarding the fulfilment of raw material and water consumption, sources and treatment should be deliberated by EAC as the matter is mostly conceptual in nature.
- 5. During the operation phase, PP is advised to conduct air monitoring in the vicinity of adjoining schools and human habitations to assess environmental/ecological impact. The PP should implement a project specific AQMP (Air Quality Management Plan) with Best practices.
- 6. The PP should develop a control strategy and mitigation plan that incorporates the pollution control measures. The Clean Air practices shall be adopted like mechanical collectors, wet scrubbers, fabric filters (baghouses), electrostatic precipitators, etc.

- 7. The PP should monitor cement dust exposures in clinker, grinding and packing areas using personal and area air samplers and to compare the results of cement dust (8 hours' average exposures) with permissible limits based on free silica content of air borne respirable dust.
- 8. Rain water harvesting system should be developed/ implemented in the plant area.
- 9. PP shall develop green belt around the school boundary/premises and shall provide basic facilities to the nearby School as part of Corporate Social Responsibility (CSR).
- 24.4.24 Based on the points raised by the EAC during its 19th EAC meeting held during 16th & 19th December 2022, and the recommendations made by the EAC (Industry-1) sub-committee, the project proponent submitted its reply vide letter dated 02.02.2023 uploaded on PARIVESH portal on 08.02.2023. Point-wise is as follows:

S. No.	ADS Point	Reply/Response of PP
i	The existing project was initially accorded EC from MoEF&CC, New Delhi for Integrated Cement Plant (Clinker: 2.0 Million TPA, Cement: 3.0 Million TPA), CPP: 36 MW, WHRS: 15 MW and Limestone Mine (ML Area: 624 ha) with limestone production capacity of 3.2 Million TPA; further validity of same for 3 years was extended vide letter dated 29th September, 2016; which was expired on 14th July, 2019 for Integrated Cement Plant, whereas the same EC is valid for Captive Limestone Mines upto 14th July, 2039. Due to expiry of earlier granted EC, a fresh EC of Integrated Cement Plant on same project site with revised capacities (Clinker: 2.0 Million TPA, Cement: 4.0 Million TPA, Waste Heat Recovery Power Generation: 20 MW, Captive Power Plant: 25 MW and D.G. Sets of 2000 KVA) was granted by MoEF&CC vide letter dated 3rd February 2021. Integrated Cement Plant with production capacity 2.0 Million TPA Clinker,	The EC for existing project was initially accorded by MoEF, New Delhi on 15th July, 2009 for Integrated Cement Plant (Clinker: 2.0 Million TPA, Cement: 3.0 Million TPA), CPP: 36 MW, WHRS: 15 MW and Limestone Mine (ML Area: 624 ha) with limestone production capacity of 3.2 Million TPA; which was expired on 14th July, 2019 for Integrated Cement Plant, whereas the same EC is valid for Captive Limestone Mines up to 14th July, 2039. Due to expiry of earlier granted EC, a fresh EC of Integrated Cement Plant on same project site with revised capacities (Clinker: 2.0 Million TPA, Cement: 4.0 Million TPA, Waste Heat Recovery Power Generation: 20 MW, Captive Power Plant: 25 MW and D.G. Sets of 2000 KVA) was granted by MoEF&CC vide letter dated 3 rd February 2021. As per the Earlier granted EC dated 3rd February, 2021 company has obtained Consent to Establish (CTE) from RSPCB and at present, the project is under construction of utilities & infrastructure development and yet not operational.

NO.	
3.0 Million TPA Cement, granted by RSPCB vide letter dated 28.02.2019. Based on EC obtained from MoEF&CC, the project is under construction of utilities & infrastructure development and yet not operational.	
 ii The EAC noted that instant proposal is a part of Interlinked project. Limestone Mine (ML No.: 47/2007& ML Area: 624 ha.) with existing production capacity of 3.2 Million TPA located at Village: Gothra, Tehsil: Nawalgarh, District: Jhunjhunu (Rajasthan). Environmental Clearance for the mine has been obtained from MoEF&CC, New Delhi vide letter no. J-11011/1173/2007-IA II (I) dated 15th July, 2009 (valid up to 14th July, 2039). To cater the limestone requirement after Expansion of Integrated Cement Plant from Environmental Clearance granted Capacity, a separate EC application (Proposal No. IA/RJ/MIN/272197/2022 dated 11.05.2022) for increase of limestone production capacity from 3.2 to 6.822 Million TPA was submitted to MoEF&CC. The proposal was considered in the 53rd EAC meeting of Non-Coal Mining (NCM) Sector held during 28th – 29th June, 2022. The project proponent submitted the proposal for Terms of Reference for Expansion in Limestone Production 	the limestone requirement for expansion, PP has proposal to MoEF&CC for Terms of Reference (ToR) for Expansion in Limestone Production Capacity from on TPA to 6.822 Million TPA (Total Excavation: fillion TPA i.e. Limestone: 6.822 Million TPA, Top 18 Million TPA, Waste: 20.0 Million TPA, ROM 358 Million TPA) and installation of Crushers 1200 00 TPH along with Wobbler in our existing Gothra e Mine (ML No.: 47/2007 & ML Area: 624 ha.) for esaid Gothra Limestone Mine on 11.05.2022 on of the interlink proposal was submitted to C in EC application. osal was considered by EAC (Non-Coal Mines) in eting held on 28.06.2022. During meeting EAC, C has asked to submit some additional information & on. submitted the reply to above ADS points to C for further consideration of the project and grant of de letter no. SCL/ Gothra Limestone valgarh/EC-ToR/2022-23/3236, dated 02.02.2023.

S. No.	ADS Point	Reply/Response of PP
	6.822 Million TPA (Total	
	Excavation: 27.298 Million TPA).	
	After, the detailed deliberations, the	
	Committee (NCM) noted that the	
	project proponent has started	
	production in the year 2021-22 and	
	has achieved a production of	
	478.18 tonnes only out of the 3.2	
	MTPA production limit granted in	
	the earlier Environmental	
	Clearance letter dated 15.07.2009.	
	Also, the Committee (NCM)	
	observed that that there will be an	
	instant shock load on the	
	environment by jumping twice the	
	production capacity granted in	
	previous Environmental Clearance.	
	The EAC (NCM) felt that the	
	Environmental Management Plan	
	(EMP) which is in place cannot be	
	fully tested at this juncture since the	
	production capacity reached by the	
	project proponent is way beyond	
	the prescribed limit. The EAC	
	(NCM) was of the opinion that this	
	project must first achieve at least	
	50% capacity of the EC granted for	
	generating pragmatic baseline data	
	for appraisal by the Committee.	
	Furthermore, the project proponent	
	is advised to submit the compliance	
	in terms of plantation, efficacy of	
	EMP on the maximum production	
	that it achieves before seeking	
	expansion. Therefore, the	
	Committee (NCM) deferred the	
	proposal. The EAC noted that PP	
	has hided this information and	
	these facts are not submitted before	
	the EAC neither in presentation nor	

A.	. Reply to the issues raised by EAC during its 19^{th}	EAC meeting held during 16 th & 19 th December
	2022	

S. No.	ADS Point	Reply/Response of PP
	in the Report. In view of the same, the EAC (Industry-1) seeks clarification from the PP regarding fulfilling the limestone requirement for the proposed expansion in the instant application.	
iii	On perusal of kml file, the EAC noted that there are number of the schools adjacent to the project site (Three corners of the boundary of the project) and within the study area. However, PP has not reported this neither in the EIA/EMP Report nor in the Presentation. The EAC also observed that there is a habitation inside the project boundary, though PP has reported that there is no habitation within the plant site and hence R&R is not applicable. Further PP has reported that the nearest habitation to the project site include Gothra (0.5 Km, NE), Dhani Kanakawali (1.5 km, WSW), Jhajhar (1.5 km, WNW), Basawa (2 km, SSW), Keswa Ki Dhani (3 km, SSE) and Bhairoo Ki Bas (3 km, NNW). There are approx. 43 other villages in 10 km radius study area of the project site. Considering the Environmental Sensitivity to the adjacent schools and habitation in the area, the EAC opined that it is prudent to inspect the area for understanding the ground reality as the area appears to have rich habitation.	 There are 3 (three) Schools located near to site details of the same along with distance from project boundary & stack are as follows: I. GPS Dhahar Wali Johari Gothara - Govt. School, established in 1999, 2 Class Rooms, approx. 9 Students. – 35 meters from Boundary & 970 meters from Stack 2. GPS Bhakhariyon Ki Dhani - Govt. School, established in 1999, 2 Class Rooms, approx. 24 Students. – 115 meters from Boundary & 570 meters from Stack 3. Sarswati Sec. School, Gothara - Private School, established in 2007, 12 Class Rooms, approx. 442 Students. – 55 meters from Boundary & 1170 meters from Stack PP has proposed 15 meters greenbelt & plantation all along the periphery of plant boundary, we have planned multi-layer greenbelt & plantation of minimum 50 meters towards Schools and habitation. Whereas the SCL has proposed & earmarked to develop the 33% (i.e., ~49.40 ha) area under greenbelt & plantation of the total effective project area with 1,23,500 numbers of plant in upcoming 3 years with density of plantation is 2500 trees per ha. Out of which, as on date (14.01.2023) SCL has done plantation in 5.62 ha area (11276 Nos saplings) with recently planted 4800 numbers of plants under mass Plantation Program conducted on 06.01.2023 at our plant site towards locations of existing schools & habitations.

S. No.	ADS Point	Reply/Response of PP				
iv	1000 m ³ /day water is proposed for the expansion project which is proposed to be sourced from STP Treated Water of Nagar Palika, Nawalgarh/ Ground Water/ Mine Pit. The EAC deliberated on water consumption and consequently the ETP/STP capacity and is of the view that the quantity of water requirement is not justified and there is a need to understand the water balance along with the source of water available near the project site as PP has also proposed the ground water as source of water.	To fulfil the water requirement for the project including Cement plant, Limestone Mines & Residential Township, SCL has obtained CGWA NOC/Permission for withdrawal/ abstract of 1200 KLD groundwater vide NOC No. CGWA/NOC/ IND/REN/1/2022/7128, which is valid up to 31 st Dec., 2023. Apart from this, SCL has also signed an agreement with Nagar Palika, Nawalgarh for supply of 3 MLD treated sewage water on 21 st July, 2020 to meet the non-potable industrial applications requirements for the project. Whereas, as per observation of the Hon'ble EAC Member, SCL has modified & revised the water balance based on the peak water requirement of the project including greenbelt & plantation development has been submitted along with ADS reply.				
v	The PP shall submit the compliance status of earlier commitments and its implementation status along with details of expenditures on the	Details existing submitte	etails of CSR Activities done in the nearby villages as per the isting EC and requirement of the nearby villages has been bmitted along with ADS reply as shown below-			
	ssues raised during the PH while	S. No.	Activity Heads	Years (Rs. In Lakhs)		
	granting the EC in February 2021.			2021- 22	2022- 23	Total
		1.	Educational Programme	-	5.5	5.5
		2.	Health & Family Welfare	5.3	6.5	11.8
		3.	Social Development & Welfare	11.7	21.45	33.15
		4.	Infrastructure Development	89.9	364.67	624.57
			Grand Total	106.9	398.12	675.02
vi	Existing greenbelt (GB) is developed in 3.7 ha area (6476 Nos saplings) only which is about	The EC for project was initially accorded by MoEF, New Delhi on 15th July, 2009 for Integrated Cement Plant with limestone having production capacity of 3.2 Million TPA at Village: Gothra, Tehsil: Nawalgarh, District: Jhunihunu (Raiasthan) of				

S. No.	ADS Point	Reply/Response of PP
	2.47% of the total project area. The Committee deliberated that EC was granted long back in 2009 and further in 2021 and still the greenbelt development is very poor. The GB width along plot boundary is too small. It must be around 40 m to incorporate 3 tier GB design. Further for 49.40 ha of Gb the PP to plant 123500 trees. PP shall ensure around 1200 cum water per	Shree Cement Limited. The Consent for establishment (CTE) of Integrated Cement Plant with production capacity 2.0 Million TPA Clinker, 3.0 Million TPA Cement, granted by RSPCB vide letter dated 28.02.2019. Due to expiry of earlier granted EC, a fresh EC of Integrated Cement Plant on same project site with revised capacities (Clinker: 2.0 Million TPA, Cement: 4.0 Million TPA, Waste Heat Recovery Power Generation: 20 MW, Captive Power Plant: 25 MW and D.G. Sets of 2000 KVA) was granted by MoEF&CC vide letter dated 3rd February 2021.
	day for the proposed GB sustainability.	Based on the LOI for limestone mine and based on the State Government notification for requirement land for Cement Plant 20.01.2007, 25.06.2008 & 28.06.2008 the EC was grated in 2009.
		Finally, land was allotted on 12.05.2015 and lease deed was executed on 01.06.2016, but the complete physical possession of land was handover to us in Dec. 2020 by intervention of RIICO & Collector – Jhunjhunu, Government of Rajasthan, whereas still 13-14 families not vacant the houses, for which SCL is under negotiation with them. However, SCL has constructed a temporary boundary wall to isolate thus habitation from the site and planned the greenbelt on that area after vacant by families.
		Since, the complete land was not possession with SCL, thus project proponent could not initiate the execution of project and plantation & greenbelt development at site. After physical possession of land, SCL started the construction of boundary wall to secure the land and also started plantation in peripheral area of plant, colony & mines from 2021. Accordingly, while appeared for EC appraisal presentation after submission of Final EIA, the status of existing greenbelt (GB) development was 3.7 ha area with 6476 Nos saplings, which was about 2.47% of the total project area. Whereas, the SCL has proposed & earmarked to develop the 33% (i.e., ~49.40 ha) area under greenbelt & plantation of the total effective project area with 1,23,500 numbers of plant in upcoming 3 years with density of plantation is 2500 trees per ha. Out of which, as on date

A.	. Reply to the issues raised by EAC during its 19 th	EAC meeting held during 16	th & 19 th 1	December
	2022			

S. No.	ADS Point		Reply/Response of PP				
		(14.01.2023) SCL has done plantation in 5.62 ha area (11276					
		Nos sa	aplings) with re	cently plante	d 4800 numb	pers of plants	
		under mass Plantation Program conducted on 06.01.2023.					
		Plantation & Greenbelt development is ongoing process for under development site and Shree Cement committed for sustainable development of the site and surrounding area of the project, therefor they have planned to complete the greenbelt & planation development in coming 3 years to achieve the proposed number of tree/ plants i.e. 1,23,500 numbers with density of plantation is 2500 trees per ha. with minimum width of 15 meters in the periphery of boundary and minimum 50 meters width greenbelt & plantation towards nearby the Schools. Native Plant species such as Neem, Amla, Imli, Shisham, Bargad, Pipal, Karanj, Mango, Gulmohar, Amaltas, Senjana, Shahtut, Siris, Gurhal, Arjun, Dubai Tree, Semal, Saptaparni, Palash, Jamun etc. is being/ will be planted, as per CPCB guidelines. Detailed plan of Greenbelt development is as					
		follow	S:	ico	Numborg]	
		S.	nlantation of	Area in	numbers	Survival	
		No.	EC & CTE	ha.	Plantation	Rate	
			Existing a	and 5.62*	14,050	90%	
		1.	planned up	pto			
			March, 2023				
		2.	1 st year	22.00 ha	55,000	90%	
		3.	2 nd year	21.78 ha	54,450	90%	
			Total	49.40	1,23,500	90%	
		* Existing 11,276 number of plantations has been done in 5.62 ha. area as on 1 st Feb. 2023; which will be further dense @ 2500 trees / ha upto March, 2023.					
vii	Thus, in view of the above	Inspec	tion & site visit	of Sub-comm	ittee of EAC	(Industry - 1)	
	observations the EAC is of the	of the	EAC was cond	ucted from 1	3^{m} -14 ^m Jan. 2	2023 and site	
	opinion that it is pertinent to	visit re	port with some r	recommendati	ons issued on	02.02.2023.	
	undertake site visit to understand						
	the ecological/environmental						
	sensitivity of the area to the schools						
	and local habitation, fulfilment of						

S. No.	ADS Point	Reply/Response of PP
	raw material (limestone), water consumption, sources & treatment proposed in project, greenbelt development at the project site.	

B. Recommendations of the Sub-Committee along with the compliance and further commitments by						
CL are as follows:						
Recommendations of the	Compliance and commitments by SCL					
Sub-Committee						
Considering the fact	SCL has proposed 15 meters Greenbelt & plantation all along the					
regarding the occurrence	periphery of plant boundary and also planned multi-layer greenbelt &					
of all the three schools at	plantation of minimum 50 meters towards Schools and habitation.					
the distance of 35 meters,	Amended plant layout showing greenbelt & plantation has been					
115 meters and 55 meters	provided at slide no. 10.					
from the project boundary,	SCL has proposed & earmarked to develop the 33% (i.e., ~49.40 ha)					
and 970 meters, 570	area under greenbelt & plantation of the total effective project area with					
meters and 1170 meters	1,23,500 numbers of plant in upcoming 3 years with density of					
from the stack,	plantation is 2500 trees per ha. Out of which, as on date (14.01.2023)					
respectively, a dense	SCL has done plantation in 5.62 ha area (11276 Nos saplings) with					
vegetation of multi-layered	recently planted 4800 numbers of plants under mass Plantation Program					
plantation must be	conducted on 06.01.2023.					
developed adjacent to						
school and habitation.						
Considering the						
environmental sensitivity						
to the adjacent area, PP to						
balt all around project						
boundary within the						
project site with three tier						
system						
PP to expedite the	Noted and will be complied					
acquisition/ possession of						
remaining houses which						
has yet not been vacated						
with proper negotiation.						
Regarding the fulfilment	Limestone (Raw material) will be fulfilled by captive limestone mines,					
of raw material and water	whereas the raw water requirement will be fulfilled by treated water					
	ecommendations of the Sur CL are as follows:Recommendations of the Sub-CommitteeConsideringthefact regardingConsideringthefactregardingtheoccurrenceof all the three schools at the distance of 35 meters, 115 meters and 55 meters from the project boundary, and 970 meters, 570 meters and 1170 meters fromfromthestack, respectively, adense vegetation of multi-layered plantationmustbe developedadjacent to school and habitation.Consideringthe environmental sensitivity to the adjacent area, PP to ensure a thickness green belt all around project boundary within the project site with three tier system.PPtoexpedite the acquisition/ possession of remaining houses which has yet not been vacated with proper negotiation.Regardingthe fulfilment of raw material and water					

B. R S	B. Recommendations of the Sub-Committee along with the compliance and further commitments by SCL are as follows:						
S.	Recommendations of the	Compliance and commitments by SCL					
No.	Sub-Committee	-					
	consumption, sources and treatment should be deliberated by EAC as the matter is mostly conceptual in nature	received from STP of Nawalgarh Town through pipelines for which an agreement has been executed. Apart from this, the NOC from CGWA for abstraction of ground water has been obtained to fulfill the fresh drinking & domestic water requirements of cement plant, limestone mines & residential township, apart from this the rainwater collected in bottom most pit of mines will also be utilized in the project.					
5.	During the operation phase, PP is advised to conduct air monitoring in the vicinity of adjoining schools and human habitations to assess environmental/ ecological	Noted and hereby committed to comply the same. A detailed Air Quality Management Plan along with Air Pollu Control Equipment and Covered Storage Facilities proposed in project has been prepared and is given on the next slides, same wi complied during execution of the project.					
	implement a project specific AQMP (Air	Emissions	Plant Unit	Section	Mitigation Measures Provided / to be provided		
	Quality Management Plan) with Best practices.	DM	Cement	Raw Mill & Kiln	Bag House (1 no.)		
6.	The PP should develop a	PM	Plant	Cooler	ESP (1 no.)		
	control strategy and			Cement Mill	Bag House (2 nos.)		
	mitigation plan that incorporates the pollution control measures. The Clean Air practices shall be adopted like mechanical collectors, wet scrubbers, fabric filters	SO_2	Cement Plant	Raw Mill & Kiln	Due to the interaction of raw materials and kiln gases, rotary kiln systems have inherent SO_2 removal efficiencies ranging between 40-99% of the sulphur input to the system.		
7.	(baghouse), electrostatic precipitators etc. The PP should monitor cement dust exposures in clinker, grinding and packing areas using	NO _x	Cement Plant	Raw Mill & Kiln	 Low NO_x burners. Incline Calciner for low NO_x formation. Installation of analyzer at the inlet of Kiln to monitor O₂ & NO_x. 		
	samplers and to compare the results of cement dust (8 hours average exposures) with permissible limits based	Fugitive Emission	Cement Plant	Raw Material Handling & Storage Transportation activity	 Bag filters (168 nos.) at various material handling & transfer points will be provided. Covered Conveyor belts for transfer of raw 		

S. No.	Recommendations of the Sub-Committee	Compliance and commitments by SCL					
<u>No.</u>	Sub-Committee on free silica content of air borne respirable dust	Follo	owing Air P	ollution Co		materials/ products ins: Fly ash rec closed bulke silo throug system. Clinker will tank while Cement will the silos. Gypsum, SI Biomass, Petcoke will the covered in sheds/Yards Water sprint done to Proper mat vehicles to r emissions. All the mo roads will be Using Vacu machine housekeepint Greenbelt & being/ will the plant attenuate air	finished ide the plant. eived through ers & fed into the pneumatic l be stored in Fly Ash and l be stored in ag, Dolochar, Coal and l be stored in sheds. Pond ash will n the covered kling will be control dust intenance of reduce gaseous ovement area beconcreted. tum sweeping for better g. c plantation is be done along boundary to pollution.
		Proj	ect:				
		S. No	Location of APCE	Type Existing As per Granted	of APCE Additional	Total After Expansion	Design Efficiency (%)
		1.	Raw Mill	Bag		1	99.99

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B. Recommendations of the Sub-Committee along with the compliance and further commitments by SCL are as follows:							
S. No.	Recommendations of the Sub-Committee	Compliance and commitments by SCL					
			and Kiln	House			
		2.	Clinker	Cooler	-	1	99.95
			Cooler	ESP			
		3.	Cement	Bag	Bag House	2	99.99
			Mill	House			
		4.	Coal Mill	Bag	-	1	99.99
				House			
		5.	Transfer	Bag	Bag filters	168	99.99
		E.U.	Points	filters		1	
		FOIIOV	ving Covere	a Storage	Facilities are	proposed	in the Project:
		S.No	Section			Unit	Capacity
		1.	Limestor	ne Stock Pil	e	Tonnes	2 x 100000
		2.	Clinker t	ank		Tonnes	3 X 75000
		3.	OPC silo)		Tonnes	2 X 10000
		4.	PPC silo			Tonnes	2 X 10000
		5.	PSC & R	HPC silo		Tonnes	2 X 10000
		6.	SRC & C	Composite S	Silo	Tonnes	2 X 10000
		7.	Iron Ore/	Laterite		Tonnes	20000
		8.	Fly Ash S	Silo		Tonnes	10000
		9.	Pond ash			Tonnes	10000
		10.	Gypsum			Tonnes	15000
		11.	Coal/Pete	coke/Doloc	har/Biomass	Tonnes	100000
		12.	Slag			Tonnes	10000
		13.	Alternati Material	ve Fuel (AFR)	and Raw	Tonnes	15000
6	Rain water harvesting	25 Nos. Rainwater Harvesting (RWH) Structure with capacity of 885					
	system should be	cum for Cement Plant and Residential Township has been proposed.					
	developed/ implemented in	Apart from this, 1 Rain Water Harvesting Pond with capacity of 110715					
	the plant area	cum 1s also proposed to accumulated & collect the rainwater for further uses and reduces the fresh and raw water requirements of the project.					
7	PP shall develop greenbelt	Company has proposed 15 meters wide greenbelt & plantation all along					
	around the school	the periphery of plant boundary, and also, planned multilayer greenbelt					
	boundary/premises and	& plantation of minimum 50 meters towards Schools. Apart from this,					
	shall provide basic	the detailed CSR plan proposed for the nearby Schools are given as					
	School as part of	Delow	-111				
	Corporate Social						

B. Recommendations of the Sub-Committee along with the compliance and further commitments by SCL are as follows:

S. No.	Recommendations of the Sub-Committee	Compliance and commitments by SCL
	Responsibility (CSR)	

24.4.25 Based on the above submission of PP, the proposal was reconsidered during 24th meeting of the EAC for Industry-I sector held on 28th February – 1st March, 2023. The deliberations and recommendations of EAC are as follows:

Written representations:

24.4.26 During the meeting, based on the deliberations made by the EAC, the project proponent vide letter dated 28.02.2023 through email dated 28.02.2023 submitted the following information:

S. No.	Additional Observations /	Reply submitted by the PP
	ADS Point of EAC	
1	PP should increase the Cost	The PP has revised and detailed out the plan for socio-
	of Action Plan including PH	economic development including PH commitments
	commitments 1% of the	equal to 1% (i.e. 34.07 Crores) of the project cost (i.e.
	expansion project cost.	3407 Crores). However, expenditure of Rs 6.75 Crores
		has already been done under CER/CSR activities & PH
		commitments in the nearby area of the site.
		The detailed plan of socio-economic development
		including PH commitments is submitted and updated at
		para 24.4.18 above.
2	PP should plan and submit	Additional avenue plantation equal to 7% (i.e. 25000
	the details of additional 7%	tress) of the project site area will be done along the
	(i.e. 25000 tress) under	roads of nearby villages; new connecting road
	avenue plantation along the	constructed from Gothra to Parasarampura; railway
	roads, railway siding in the	siding area and in the nearby villages outside the project
	nearby villages outside the	site. Details of the same have been incorporated in
	project site.	detailed socio-economic development plan submitted.

Deliberations by the Committee

- 24.4.27 The Committee noted the following:
 - The instant proposal is for expansion in existing Environmental Clearance granted capacity of Integrated Cement Plant Clinker: 2.0 to 4.5 Million TPA, Cement: 4.0 to 6.0 Million TPA, Waste Heat Recovery Power Generation: 20 to 40 MW. DG Sets of 2000 KVA (1000/500/250/125 KVA) along with Railway Siding. Further, PP during the presentation during 24th meeting of the EAC for Industry-I sector held on 28th February 1st March, 2023 submitted that in order to fulfil the requirement of greenbelt

development towards School, plant layout has also been amended and proposal for installation of Captive Power Plant of 25 MW (Thermal) is now dropped out. The Committee deliberated the issues.

- ii. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.
- iii. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.
- iv. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.
- The existing project was initially accorded Environmental Clearance from MoEF&CC, v. New Delhi for Integrated Cement Plant (Clinker: 2.0 Million TPA, Cement: 3.0 Million TPA), CPP: 36 MW, WHRS: 15 MW and Limestone Mine (ML Area: 624 ha) with limestone production capacity of 3.2 Million TPA at Village: Gothra, Tehsil: Nawalgarh, District: Jhunjhunu (Rajasthan) of Shree Cement Ltd.; further validity of same for 3 years was extended vide letter dated 29th September, 2016; which was expired on 14th July, 2019 for Integrated Cement Plant, whereas the same EC is valid for Captive Limestone Mines upto 14th July, 2039. Due to expiry of earlier granted EC, a fresh EC of Integrated Cement Plant on same project site with revised capacities (Clinker: 2.0 Million TPA, Cement: 4.0 Million TPA, Waste Heat Recovery Power Generation: 20 MW, Captive Power Plant: 25 MW and D.G. Sets of 2000 KVA) was granted by MoEF&CC vide letter no. J-11011/1173/2007-IA.II (I) dated 03rd February 2021. Integrated Cement Plant with production capacity 2.0 Million TPA Clinker, 3.0 Million TPA Cement, located at Village: Gothra, Tehsil: Nawalgarh, District: Jhunjhunu (Rajasthan) of Shree Cement Limited granted by RSPCB vide letter no. F(CPM)/Jhunjhunu (Nawalgarh)/2(1)/2018-2019/ 7228-7230 and vide Order No. 2018-2019/CPM/5424 dated 28.02.2019, Validity: 14.06.2018 to 31.05.2023. Based on EC obtained from MoEF&CC, the project is under construction of utilities & infrastructure development and yet not operational.
- vi. The EAC noted that instant proposal is a part of Interlinked project. Limestone Mine (ML No.: 47/2007& ML Area: 624 ha.) with existing production capacity of 3.2 Million TPA located at Village: Gothra, Tehsil: Nawalgarh, District: Jhunjhunu (Rajasthan). Environmental Clearance for the mine has been obtained from MoEF&CC, New Delhi vide letter no. J-11011/1173/2007-IA II (I) dated 15th July, 2009 (valid up to 14th July, 2039). To cater the limestone requirement after Expansion of Integrated Cement Plant

from Environmental Clearance granted Capacity, a separate EC application (Proposal No. IA/RJ/MIN/272197/2022 dated 11.05.2022) for increase of limestone production capacity from 3.2 to 6.822 Million TPA was submitted to MoEF&CC. The proposal was considered in the 53rd EAC meeting of Non-Coal Mining (NCM) Sector held during 28th – 29th June, 2022. After, the detailed deliberations, the Committee (NCM) noted that the project proponent has started production in the year 2021-22 and has achieved a production of 478.18 tonnes only out of the 3.2 MTPA production limit granted in the earlier Environmental Clearance letter dated 15.07.2009. Also, the Committee (NCM) observed that there will be an instant shock load on the environment by jumping twice the production capacity granted in previous Environmental Clearance. The EAC (NCM) felt that the Environmental Management Plan (EMP) which is in place cannot be fully tested at this juncture since the production capacity reached by the project proponent is way beyond the prescribed limit. The EAC (NCM) was of the opinion that this project must first achieve at least 50% capacity of the EC granted for generating pragmatic baseline data for appraisal by the Committee. Furthermore, the project proponent is advised to submit the compliance in terms of plantation, efficacy of EMP on the maximum production that it achieves before seeking expansion. Therefore, the Committee (NCM) deferred the proposal.

vii. Based on the site visit conducted by EAC (Industry-1) sub-committee during 13-14th January, 2023, the EAC noted the following:

Observation of Sub-committee:

- 1. The committee visited three Schools located outside the boundary of the project and discussed with principal/head of the concerned School. It was observed that the Schools 1, 2 and 3 were located at village Dhahar Wali Johari Gothara (Govt. School), Bhakhariyon Ki Dhani (Govt. School) and Sarswati Sec. School, Gothara (Private School) with student capacity of 10, 30 and 438, respectively. Further, information about the school was observed on- and the on-line Report cards of the Schools are submitted.
- 2. A multi layered green belt plantation was observed towards school.
- 3. Total Four Houses (with about 13-14 families) in two clusters were observed within the project boundary. In one cluster, only one house was there which was locked. In another cluster, 3 houses were present and 2 were locked and a person residing in one house (having 4 families) was available for discussion. As per interaction with the available resident, one house (which was found locked) shifted to Punjab and in other 2 houses some families are residing. Both clusters of houses have been temporarily excluded/ separated from the project site with a temporary boundary wall.
- 4. With a view to see the CER activity undertaken by the PP against 2021 EC, the committee observed a sports complex under construction at Parasrampura Village and RCC road for local community developed by PP in Gothra village. The committee visited a Gaushala a Gothra village which was renovated by PP.

Recommendations of Sub-committee

1. Considering the fact regarding the occurrence of all the three schools at the distance of 35 meters, 115 meters and 55 meters from the project boundary, and 970

meters, 570 meters and 1170 meters from the Stack, respectively, a dense vegetation of multi-layered plantation must be developed adjacent to schools and habitation.

- 2. Considering the environmental sensitivity to the adjacent area, PP to ensure a thick Green belt all around project boundary within the project site with three tier system.
- 3. *PP to expedite the acquisition/possession of remaining houses which has not yet been vacated with proper negotiation.*
- 4. Regarding the fulfilment of raw material and water consumption, sources and treatment should be deliberated by EAC as the matter is mostly conceptual in nature.
- 5. During the operation phase, PP is advised to conduct air monitoring in the vicinity of adjoining schools and human habitations to assess environmental/ecological impact. The PP should implement a project specific AQMP (Air Quality Management Plan) with Best practices.
- 6. The PP should develop a control strategy and mitigation plan that incorporates the pollution control measures. The Clean Air practices shall be adopted like mechanical collectors, wet scrubbers, fabric filters (baghouses), electrostatic precipitators, etc.
- 7. The PP should monitor cement dust exposures in clinker, grinding and packing areas using personal and area air samplers and to compare the results of cement dust (8 hours' average exposures) with permissible limits based on free silica content of air borne respirable dust.
- 8. Rain water harvesting system should be developed/ implemented in the plant area.
- 9. PP shall develop green belt around the school boundary/premises and shall provide basic facilities to the nearby School as part of Corporate Social Responsibility (CSR).
- viii. The EAC deliberated the site visit report and its recommendations and the EAC is of the view that the PP shall implement all the recommendations/suggestion made by the sub-committee during of the visit.
 - ix. Total Land Area of the Integrated Cement Plant Site including township is 153.62 ha; Out of which, 3.92 ha land widening and construction of connecting area excluded for Road. The Effective land area of Integrated Cement Plant including residential colony is 149.70 ha; Out of 149.70 ha i.e., effective area of the site, 135.34 ha is for the Integrated Cement Plant (including 49.2 ha common area of plant & mine lease) and remaining 14.36 ha area is reserve for residential Colony.
 - x. The nearest habitation to plant are Gothra (0.5 Km, NE), Dhani Kanakawali (1.5 km, WSW), Jhajhar (1.5 km, WNW), Basawa (2 km, SSW), Keswa Ki Dhani (2 Km, NE), Neharon Ki Dhani (3 km, SSe) and Bhairoo Ki Bas (3 km, NNW). There are approx. 43 other villages in 10 km radius study area of the project site. Further, the three schools are at the distance of 35 meters, 115 meters and 55 meters from the project boundary, and 970 meters, 570 meters and 1170 meters from the Stack respectively. The EAC deliberated on the mitigation measures through greenbelt development and found it satisfactory.
 - xi. Udaipur Lohagarh Ki Nadi flows at a distance of 4 km in the ENE direction from the project site. The EAC is of the opinion that water body shall not be disturbed. Mitigation measures w.r.t. safeguarding the water body shall be implemented.

- xii. The total water requirement after expansion is proposed to be 1000 KLD; which will be sourced from STP Treated Water of Nagar Palika, Nawalgarh/ Ground Water/ Mine Pit. The EAC deliberated on the modified & revised the water balance based on the peak water requirement of the project including greenbelt & plantation development and found it satisfactory.
- xiii. Greenbelt & Plantation is being / will be developed in ~49.40 ha which is about ~33 % of the total effective project area of 149.70 ha. Existing greenbelt has already been developed in 3.7 ha area (6476 Nos saplings) which is about 2.47% of the total project area, balance 45.70 ha (1,17,024 Nos saplings) will be developed. Company has planned multi-layer greenbelt & plantation of minimum 50 meters towards Schools and habitation and 15 meters greenbelt & plantation all along the periphery of plant boundary. Additional avenue plantation equal to 7% (i.e. 25000 tress) of the project site area will be done along the roads of nearby villages; new connecting road constructed from Gothra to Parasarampura; railway siding area and in the nearby villages outside the project site. The committee deliberated on the revised greenbelt development plan and the avenue plantation as submitted and found it satisfactory.
- xiv. Two schedule I species i.e., Indian Peafowl (Pavo cristatus) & Desert Cat (Felis libyca) recorded in the study area during field survey; which are categorized as Schedule - I according to (IWPA) Indian Wildlife Protection Act' 1972. Wildlife Conservation Plan for all the Schedule- I species has been authenticated by PCCF (Wildlife) Jaipur on 26th November, 2020.
- xv. The Committee has found that the baseline data and incremental GLC due to the proposed project within NAAQ standards.
- xvi. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
- xvii. The EAC deliberated on the compliance status of earlier commitments and its implementation status along with details of expenditures on the issues raised during the PH while granting the EC in February 2021 and noted that PP has spent around Rs. 675.02 Lakhs on educational programme, health & family welfare, social development & welfare and infrastructural development and advised to fulfil the commitments as per the action plan. The Committee also deliberated on the public hearing issues along with revised action plan for the instant proposal submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.
- xviii. The Committee deliberated upon the written submission of the Project Proponent and found it satisfactory.
 - xix. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.
 - xx. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain

necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

Recommendations of the Committee

24.4.28 In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal for grant of Environment Clearance **subject to uploading the written information** on Parivsh portal under the provisions of EIA Notification, 2006 subject to stipulation of following specific conditions and general conditions as per the Ministry's Office Memorandum No. 22-34/2018-III dated 9/8/2018 based on project specific requirements:

A. Specific conditions:

- (i) The PP shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (ii) The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
- (iii) The nearest habitation to plant are are Gothra (0.5 Km, NE), Dhani Kanakawali (1.5 km, WSW), Jhajhar (1.5 km, WNW), Basawa (2 km, SSW), Keswa Ki Dhani (2 Km, NE), Neharon Ki Dhani (3 km, SSE) and Bhairoo Ki Bas (3 km, NNW). There are approx. 43 other villages in 10 km radius study area of the project site. Further, three schools are within the vicinity of the plant. Project Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The PP shall also include some of these locations in its environmental monitoring programme.
- (iv) During the operation phase, PP shall conduct air monitoring in the vicinity of adjoining schools and human habitations to assess environmental/ecological impact. The PP should implement a project specific AQMP (Air Quality Management Plan) with Best practices.
- (v) Udaipur Lohagarh Ki Nadi flows at a distance of 4 km in the ENE direction from the project site. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
- (vi) As committed, PP shall adopt villages and formulate Village Adoption program consisting of need-based community development activities, to develop them into model villages.
- (vii) The total water requirement after expansion of 1000 KLD shall be sourced from STP Treated Water of Nagar Palika, Nawalgarh/ Ground Water/ Mine Pit. Necessary permissions shall be obtained from the Competent Authority in this regard. PP shall explore the possibility of limiting the use of ground water to reduce dependency.
- (viii) Three tier Green Belt shall be developed with majority in the 1st year covering at least 33% of the total project area as per the submitted plan with native species all along the

periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. Additional avenue plantation equal to 7% (i.e. 25000 tress) of the project site area shall be done along the roads of nearby villages; new connecting road constructed from Gothra to Parasarampura; railway siding area and in the nearby villages outside the project site. PP shall also develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards the villages namely Gothra (0.5 Km, NE), Dhani Kanakawali (1.5 km, WSW), Jhajhar (1.5 km, WNW), Basawa (2 km, SSW), Keswa Ki Dhani (2 Km, NE), Neharon Ki Dhani (3 km, SSE) and Bhairoo Ki Bas (3 km, NNW) and multi-layer greenbelt & plantation of minimum 50 meters towards Schools as per the submitted plan. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.

- (ix) The PP shall develop green belt around the school boundary/premises and shall provide basic facilities to the nearby School as part of Corporate Social Responsibility (CSR).
- (x) Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.
- (xi) PP shall complete the acquisition/possession of remaining houses which has not yet been vacated with proper negotiation as per Rules and Regulations.
- (xii) The PP should monitor cement dust exposures in clinker, grinding and packing areas using personal and area air samplers and to compare the results of cement dust (8 hours' average exposures) with permissible limits based on free silica content of air borne respirable dust.
- (xiii) The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. MSW waste shall be treated in digester and recovered gas shall be used in the canteen.
- (xiv) The PP shall also undertake rain water harvesting measures as per the plan submitted in the EIA/EMP report and reduce water dependence from the outside source.
- (xv) All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains to trap the run off material.
- (xvi) All internal and connecting road to the Highway shall be black topped/ concreted with suitable load in term of Million Standard Axle (MSA) as per IRC guidelines.
- (xvii) Performance monitoring of pollution control equipment shall be taken up yearly and compliance status in this regard shall be reported to the concerned Regional Office of the MoEF&CC.
- (xviii) Dioxin and furans shall be monitored twice a year during co-processing of hazardous waste and report shall be submitted to the Regional Office of the MoEF&CC.
 - (xix) Particulate matter emissions from all the stacks shall be less than 30 mg/Nm³.
 - (xx) DeSOx system shall be provided dry type. NOx level shall be maintained below 600 mg/Nm³ by using best available technology.
 - (xxi) Petcoke dosing shall be controlled automatically to control SO₂ emission from chimney within the prescribed limits.

- (xxii) PP shall identify the Source of fluoride emissions and action plan to mitigate the same shall be implemented.
- (xxiii) A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
- (xxiv) Action Plan for fire fighting system including provision for flame detectors, temperature actuated heat detectors with alarms, automatic sprinkler system, fixing the location of fire water tanks, separate power system for fire fighting, involvement of qualified and trained fire personnel, nearest fire station & time required to reach the proposed site shall be prepared and implemented.
- (xxv) All the recommendations made in the risk assessment report shall be implemented and compliance status in this regard shall be furnished to the Regional Office of the MoEF&CC along with the six monthly compliance report.
- (xxvi) All the commitments made to the public during the Public Hearing/Public Consultation shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
- (xxvii) The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.
- (xxviii) The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.
 - (xxix) The recommendations of the approved Site-Specific Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.

B. General conditions

I. Statutory compliance:

i. The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It

does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25thAugust, 2014 (Cement) and subsequent amendment dated 9thMay, 2016 (Cement) and 10th May, 2016 (in case of Co-processing Cement); as amended from time to time; and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.
- iii. The project proponent shall install system carryout to Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120°each), covering upwind and downwind directions.
- iv. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
- vi. The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.
- vii. Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.
- viii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
 - ix. Ensure covered transportation and conveying of raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash.
 - x. Provide wind shelter fence and chemical spraying on the raw material stock piles; and
 - xi. Provide Low NOX burners as primary measures and SCR /NSCR technologies as secondary measure to control NOX emissions.
- xii. Have separate truck parking area and monitor vehicular emissions at regular interval.
- xiii. Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by the use of covered conveyor belts/railways as a mode of transport
- xiv. Ventilation system shall be designed for adequate air changes as per ACGIH document for all tunnels, motor houses, cement bagging plants.
III. Water quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25thAugust, 2014 (Cement) and subsequent amendment dated 9thMay, 2016 (Cement) and 10th May, 2016 (in case of Co-processing Cement) as amended from time to time; and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall regularly monitor ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- iii. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- iv. Garland drains and collection pits shall be provided for each stock pile to arrest the runoff in the event of heavy rains and to check the water pollution due to surface run off
- v. Water meters shall be provided at the inlet to all unit processes in the cement plant.
- vi. The project proponent shall make efforts to minimize water consumption in the cement plant complex by segregation of used water, practicing cascade use and by recycling treated water.

IV. Noise monitoring and prevention

- i. Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

V. Energy Conservation measures

- i. Waste heat recovery system shall be provided for kiln and cooler.
- ii. The project proponent makes efforts to achieve power consumption less than 65 units/ton for Portland Pozzolona Cement (PPC) and 85 units/ton for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker.
- iii. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.
- iv. Provide the project proponent for LED lights in their offices and residential areas.

VI. Waste management

i. Used refractories shall be recycled as far as possible.

VII. Green Belt

i. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration by trees in the plant premises.

Project proponent shall submit a study report within six months on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitorable with defined time frames.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.
- iii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

IX. Environment Management

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
- ii. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.

X. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.

- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
 - ix. The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.
 - x. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
 - xi. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiv. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xv. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Consideration in Terms of Reference (TOR)

Agenda No. 24.5

24.5 Integrated Proposed DRI Plant (Sponge Iron 135000 TPA), WHRB 10MW, AFBC Power Plant 3.5MW, Submerged Electric Arc Furnace 7 MVA (Ferro Manganese 12600 TPA), Table top furnace (Brown Fused Alumina 10500 TPA) by M/s Shri Baba Baidnath Ispat Pvt. Ltd., located at Sy. No 339/1, 339/3, 340, 341, 348/1, 348/2, 349/1, 349/2, 349/3, 349/4, 349/5, 350/1, 350/2, 350/3, 350/4, 351/1, 359/1, 351/2, 359/2, 351/3, 359/3, 352, 353, 354, 355/1, 355/2, 356, 360, 362 and 363/2, Village Gaitra & Raikheda, Tehsil Tilda, District Raipur, Chhattisgarh – Consideration of TOR.

[Proposal No. IA/CG/IND1/410582/2022; File No. IA-J-11011/503/2022-IA-II(IND-I)] [Consultant: Parivesh Environmental Engineering Services; Valid upto: 11.11.2024]

- 24.5.1 M/s. Shri Baba Baidnath Ispat Private Limited has made an application online vide proposal no. IA/CG/IND1/410582/2022 dated 16th December 2022 along with the application in prescribed format (Form-I), copy of pre-feasibility report and proposed ToRs for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at Sl. No. 3(a) Metallurgical Industries (Ferrous and Nonferrous) and 1(d) Thermal Power Plant under Category "A" of the schedule of the EIA Notification, 2006 and appraised at Central Level.
- 24.5.2 Name of the EIA consultant: M/s. Parivesh Environmental Engineering Services [List of ACOs with their Certificate / Extension Letter No: NABET/EIA/2124/IA0092 (Rev.01) valid till 11.11.2024, as on February 27, 2023].

Details submitted by Project proponent

24.5.3 The project of M/s Shri Baba Baidnath Ispat Private Limited located in Sy. No. 339/1, 339/3, 340, 341, 348/1, 348/2, 349/1, 349/2, 349/3, 349/4, 349/5, 350/1, 350/2, 350/3, 350/4, 351/1, 359/1, 351/2, 359/2, 351/3, 359/3, 352, 353, 354, 355/1, 355/2, 356, 360, 362 and 363/2,Gaitra & Raikheda Village, Tilda Tehsil, Raipur District, Chhattisgarh is for setting up of a Proposed DRI Plant (Sponge Iron 135000 TPA), WHRB 10MW, AFBC Power Plant 3.5MW, Submerged Electric Arc Furnace 7 MVA(Ferro Manganese 12600 TPA), Table top furnace (Brown Fused Alumina 10500 TPA).

S.No.	Particulars		Details	Remarks
i.	Total land		6.529 ha [Private land]	Land use: Industrial
				Use
ii.	Land acq	uisition	Land completely acquired	-
	details as	per		
	MoEF&CC O	.M.		
	dated 7/10/201	14		
iii.	Existence	of	Project site: Nil	No R & R involved
	habitation	&		

24.5.4 Environmental site settings:

S.No.	Particulars	Details			Remarks
	involvement of	Study Area:	The nearest hum	an settlement	
	R&R, if any.	from the proje	ect site is:		
		Habitation	Distance	Direction	The boundary of the
		Gaitra	0.650	SSW	village is started at a
					distance of 0.650 km
					but actual habitation
					(As per survey by
					Patwari) distance of
					village Gaitra is
					approx. 1.010 km
					from proposed
	T		.		project site
1V.	Latitude and	Point			-
	corners of the project	1.	$21^{\circ}28^{\circ}11.09^{\circ}N$	81°51 10.44 E	
	site	2.	21 207.72 IN	81 31 10.01 E	
	site.	3.	21 200.23 IN	81 31 8.30 E	
		4.	21°28 0.95 N	81°517.23 E	
		5.	21°28 0.95 N	81°51 6.94 E	
		0.	$21^{\circ}280.55$ N	81°51 0.80 E	
		/.	21°27'59.37"N	81°51'6.07 E	
		8.	21°27'59.83 N	81°51'5.00 E	
		9.	21°28'3.45 N	81°51'5.13 E	
		10.	$21^{\circ}28 3.03 \text{ IN}$	81°51 3.95 E	
		11.	21°28 5.19 N	81°51'4.12 E	
		12.	21 200.03 N	81°51'2 04"E	-
		13.	21 28 0.82 N	81 51 3.04 L	
		14.	21°28'6 61''N	81°51'1 04"E	-
		15.	21 28 0.01 N	81°51'0 73"E	-
		10.	21 28 J.49 N	81°50'58 33"E	-
		17.	21°28'11 08''N	81°50'59 28"E	
		10.	21°28'10 97''N	81°50'59.28 E	
		20	21°28'11 91"N	81°51'0.05"F	
		20.	21°28'11 74''N	81°51'2 15"F	
		21.	21°28'12 63"N	81°51'2.42"E	
		23	21°28'11.60"N	81°51'7.50"E	
V.	Elevation of the	MSL of Proje	ct Site -307m to	310m above	-
	project site	mean sea leve			
vi.	Involvement of	No involvement of Forest Land			-
	Forest land if any.				
vii.	Water body (Rivers,	Project site:	None		-
	Lakes, Pond, Nala,				

S.No.	Particulars	Details			Remarks
	Natural Drainage,	Study area			
	Canal etc.) exists	Water body	Distance	Direction	
	within the project		(in KM)		
	site as well as study	Pond	adjacent to	East	
	area		project site		
		Pond near Tarashiv	1.55	North	
		Pond near	1.61	South	
		Bhatapara			
		Pond near Chataud	2.8	North	
		Unnamed Pond	3.64	NE	
		near Keotara			
		Kumhari Tank	4.77	East	
		Pond near	4.85	SSE	
		mohrenga			
		Kirna Tank	5.38	West	
		Pindraon Tank	5.53	South	
		Pond near Marhi	5.59	SW	
		Pond near Rajia	5.69	North	
		Pond near,	5.97	ESE	
		Bharuwadih Kalan			
		Pond near Deori	6.70	North	
		Pond near Chhapora	ı6.88	NNE	
		Pikridih Tank	8.03	Souh	
		Pond near	8.37	SW	
		Bhatagaon			
		Pond near Manpur	8.85	NNE	
		Pond near	8.87	SSE	
		Bepantola			
viii.	Existence of	Study area: Nil			
	ESZ/ESA/ national				
	park/ wildlife				
	sanctuary/ biosphere	List of Reserved an	nd protected	forests:	
	reserve/ tiger reserve/				
	elephant reserve	1. Mohrenga PF –	2.21 km, SE,	_	
	etc. if any within the	2. Khaulidabri PF	– 5.36 km, SE	3	
	study area				

24.5.5 The unit configuration and capacity of proposed project is given as below:

S. No	Plant Equipment/ Facility	Proposed units		
		Configuration	CAPACITY(TPA)	
1	DRI Plant (Sponge Iron)	1 x 350 TPD Kiln	1,35,000TPA	
		1 x 100 TPD Kiln		
2	Submerged Electric Arc	1 x 7 MVA	Ferro Manganese -12,600	

	Furnace (FeMn)		TPA
3	WHRB	10 MW	10 MW
4	CPP (AFBC)	1 x3.5	3.5 MW
5	Table Top Furnace	35 TPD	10,500 TPA
	(Brown Fused Alumina)		

24.5.6 The details of the raw material requirement for the proposed project along with its source and mode of transportation is given as below:

Sr. No.	Raw material	Quantity (TPA)	Source	Distance from site (km)	Mode of Transportation				
	Raw Material for Sponge Iron Production (DRI Plant)								
1	Iron Ore/Pellet	2,16,000/1,92,825	Barbil, Orissa NMDC, Chhattisgarh	416	By Rail/ Road Through Covered Trucks				
2	Coal Indian	1,98,450	SECL Chhattisgarh	193	By rail & road (through covered trucks)				
	Coal Imported 1,21,500 South Africa		South Africa	8250	Through sea route, rail route & by road				
3	Dolomite	7,650	Open Market		By road				
	Raw Material for Brown Fused Alumina								
1	Calcined Bauxite	21,000	Sister industry	193	by road				
		Raw Mat	terial for Power Plant	(AFBC)					
1	Dolochar	43598	Own Project	-	-				
2	Coal	45,000	E- auction/open market	193	By Road				
		Raw Material for	r Ferro Alloys Plant(fe	erro mangane	ese)				
1	Manganese ore	25,200	Open Market	300	By Road				
2	Coke	4725	Open Market	604	By Road				
3	Coal	2772	SECL mine/Open Market	193	By Road				
4	Flux (Dolomite)	2520	Open Market	94	By Road				

24.5.7 The water requirement for the proposed project is estimated as 748 KLD, out of which 600 KLD of fresh water requirement will be obtained from the ground water and the remaining requirement of 148 KLD will be met from the recycled water. The permission for drawl of groundwater / surface water will be obtained from concerned authority.

- 24.5.8 The power requirement for the proposed project is estimated as 13.5MW, out which 13.5. MW will be sourced from CPP& WHRB.
- 24.5.9 The capital cost of the project is Rs 45.00 Crores and the capital cost for environmental protection measures is proposed as Rs 4.25 Crores. The employment generation from the proposed project is 500 (Direct -200 Nos., Indirect -300 Nos.).
- 24.5.10 It is submitted that there is no violation under EIA notification 2006/no court cases/no show cause/no direction related to the project under consideration.

Attributes	Parameters	Sampling		Remarks
		No. of	Frequency	1
		stations		
A. Air				
a Meteorological	Meteorological	1 location at	One hourly	Secondary
parameters	Wind Speed	project site	continuous for	data from
	Wind Direction		one season	nearest IMD
	Max. Temperature			for data
	Min. Temperature			verification
	Relative Humidity			and selection
	Rain fall			of sampling
				locations
b. AAQ parameters	PM (10), PM (2.5), SO ₂	8 locations,	24 hourly	Interpretation
	$NO_{\mathbf{x}} CO$	one at project	twice a	based on
	, co	site and 07 in	week for 3	CPCB NAAQ
		buffer area	months	standards
				2009
B. Noise	Hourly equivalent noise	08 locations,	on hourly	СРСВ
	levels dB(A)	one at project	basis for 24	/OSHA
	Day Time Noise Levels	site and 07 in	hours at each	
	$(Leq_{day}) dB(A)$	buffer area	station (Once	
	Night time Noise Levels		in season)	
	$(Leq_{night}) dB(A)$			
C. Water				
Surface water/ Ground	Ground water	Set of grab	Once in season	Parameters
water quality parameters	Color; pH; Turbidity;	samples		monitored as
	Dissolved solids;	during study		per IS 10500
	Aluminium as	period at the		
	Al;Ammonia (, as total	above		
	ammonia-N);	mentioned 8		
	Anionic Detergents as	locations for		
	MBAS; Barium as Ba;	ground		
	Boron as B;Calcium as	water.		

24.5.11 Proposed Terms of Reference: [Baseline data collection period: 1st October 2022 to 31st December 2022]

Attributes	Parameters	Sampling		Remarks
		No. of	Frequency	
		stations		
	Ca;Chloramines as			
	Cl ₂ Chloride as			
	Cl;Copper as Cu;			
	Fluoride as F;			
	Free Residual Chlorine;			
	Iron as Fe; Magnesium			
	as Mg; Manganese as			
	Mn;Nitrate as NO _{3;}			
	Phenolic Compounds as			
	C ₆ H ₅ OH;Selenium as			
	Se;Sulphate as SO _{4.}			
	Total Alkalinity as			
	CaCO ₃ Total Hardness as			
	CaCO _{3.} Zinc as Zn,			
	Cd; Pb; Hg; As;Ni;Cr			
	Surface water			
	pH;Turbidity;Total	Set of grab		Parameters
	Hardness (as CaCO ₃);	samples		monitored as
	Total Alkalinity	during study		per BIS 2296
	(asCaCO ₃);Chlorides (as	period		
	Cl);Sulphate (as SO ₄);	1		
	Nitrate (as NO ₃);			
	Fluoride (as F);			
	BOD _{3Davs at 27°C} ·COD;			
	Phenolic Compounds (as			
	C_6H_5OH);Lead (as Pb);			
	Iron (as Fe):			
	Arsenic (as As);			
	Cadmium (as Cd): Total			
	Chromium (as Cr);			
	Mercury (as Hg);			
	Copper (as Cu):			
	Zinc (as Zn);Selenium			
	(as Se);Oil & grease;			
	Colour: Dissolved solids:			
	Residual free chlorine:			
	Boron (as B);Calcium			
	(as Ca);Magnesium (as			
	Mg);DO;			
D. Land				
a. Soil quality	Soil:			

Attributes	Parameters	Sampling		Remarks
		No. of	Frequency	
		stations		
	Particle size distribution;			
	Texture; pH. Electrical	08 locations,		
	conductivity; Bulk	One location		
	density; Organic carbon;	at project site	Once in	
	Sodium (Na); Potassium	and	season	
	(K); Moisture content;	07locations		
	Total Nitrogen;	in buffer area		
	Available phosphorous;			
	organic matter; Total			
	Soluble Chloride; Total			
	Soluble sulphate; Water			
	holding capacity;			
	Porosity;			
b. Land use	Land use/Land cover	Study area	At least 20	
	Location code	5	known	
	Total project area		vectors for	
	Topography		geo	
	Drainage (natural)		referencing	
	Cultivated, forest,		and	
	plantations, water bodies,		verification	
	roads and settlements			
E. Biological	• Incentivization of	Study Area	Five-Seven	
a. Aquatic	floral and faunal		days in a	
b. Terrestrial	species in core and		season	
	buffer zone			
	• Density in core zone			
	• Importance value			
	index (IVI) of trees,			
	• Biodiversity index			
	• Identification of rare			
	threatened and			
	endangered species			
F. Socio-economic	Demographic structure;			
parameters	Infrastructure resource			
	base; Economic resource		In two phases	
	base;	Study area	of the project	
	Health status; Morbidity		Project	
	pattern; Working pattern;			
	Cropping pattern			

Deliberation by the Committee

- 24.5.12 The Committee noted the following:
 - The instant proposal is for setting up of a Proposed DRI Plant (Sponge Iron 135000 TPA), WHRB 10MW, AFBC Power Plant 3.5MW, Submerged Electric Arc Furnace 7 MVA (Ferro Manganese 12600 TPA), Table top furnace (Brown Fused Alumina 10500 TPA).
 - ii. The EAC noted that earlier the project site was with M/s Arvind Inorganics Pvt. Ltd. which was a chemical plant and was operational since 2008 with valid CTO obtained from CECB dated 27.10.2008 and same was renewed from time to time. The last CTO was renewed on 10.10.2017 by CECB which was valid upto 31.05. 2018. After that plant was not in operation since 2018. Now, Shri Baba Baidnath Ispat Private Limited acquired the project (vide certificate no IN-CG3202015861320U dated 5 July 2022) from the M/s Arvind Inorgnics Pvt Ltd. Demolition of Existing Structure will be done and waste generated from demolition like Steel Structures (100 Ton) will be send to Sister Steel Industry in Raipur and Construction Aggregate Waste (11000 cu.m.) will be used at site for leveling & backfilling. Now Shri Baba Baidnath Ispat Private Limited acquired the project. There was no litigation pending with earlier project. Project will be demolished as per MOEFCC/CPCB norms and existing plantation will be retained.
 - iii. Total project area is 6.529 ha which is private land and under the possession of the company.
 - iv. The nearest habitation to the project site is Gaitra which is at a distance of 0.65 km in the SSW direction.
 - v. There area numerous ponds in the vicinity of the project site within the study area. The EAC is of the opinion that the water bodies shall not be disturbed.
 - vi. The total water requirement is 748 KLD, out of which 600 KLD of fresh water requirement will be obtained from the ground water and the remaining requirement of 148 KLD will be met from the recycled water.

Recommendations of the Committee

- 24.5.13 After deliberations, the Committee **recommended** the project proposal for prescribing following specific ToRs for undertaking detailed EIA and EMP study in addition to the generic ToRs enclosed at **Annexure-1** read with additional ToRs at **Annexure-2**:
 - (i) The PP shall obtain site inspection report from CECB on the demolition of chemical plant of previous occupier i.e. M/s Arvind Inorganics Pvt. Ltd. The PP shall follow all the procedure and SOP for dismantling of the chemical Unit. The SPCB should ensure that there shall not be any contaminated due to dismantling of chemical plant.
 - (ii) The nearest habitation to the project site is Gaitra which is at a distance of 0.65 km in the SSW direction. Project Proponent shall prepare an action plan for environmental safeguard measures to minimise the impact on the habitation of the locals. The company shall also include some of these locations in its environmental monitoring programme.

- (iii) There area numerous ponds in the vicinity of the project site within the study area of 10 km of the project site. The PP shall include in the EIA/EMP report suitable steps /conservation plan along with contouring (close intervals), Run -off calculations, disposal etc. A robust and full proof Micro-Drainage Conservation scheme to protect the natural drainage/water bodies and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be provided.
- (iv) Water required for the proposed project will be 748 KLD, out of which 600 KLD of fresh water requirement is planned to be obtained from the ground water and the remaining requirement of 148 KLD will be met from the recycled water. PP shall explore the possibility of shifting to alternate source of water to reduce dependency on groundwater.
- (v) Detailed description of micro flora and fauna (terrestrial and aquatic) existing in the study area with special reference to rare, endemic and endangered species.
- (vi) Explore possibilities for recycling and reusing of treated water in the unit to reduce the fresh water demand and waste disposal.
- (vii) The PP should submit the photograph of monitoring stations & sampling locations. The photograph should bear the date, time, latitude & longitude of the monitoring station/sampling location. In addition to this PP should submit the original test reports and certificates of the labs which will analyze the samples.
- (viii) PP shall submit action plan for rainwater harvesting system.
 - (ix) PP shall submit a letter from SPCB certifying that the proposed project do not fall under CPA/SPA.
 - (x) Action plan for 100 % solid waste utilization shall be submitted.
 - (xi) Project proponent shall prepare layout plan showing all internal roads minimum 6m width and 9m turning radius with proper looping for smooth traffic flow, including fire tender as per NBC. Road network shall connect all service areas in layout. This drawing shall include area statement showing plot area, area under roads, parking, green belt with calculations and % with respect to plot area of project site and proper indexing.
- (xii) Project proponent shall submit contour map of project site along with drainage disposal system with calculations and drawings supported with proper indexing including rain water harvesting details with calculations mentioning about GW recharge along with relevant drawing.
- (xiii) Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitorable with defined time frames", when PP comes for EC proposal. This study shall be formulated keeping in view of India's Net-zero commitment at the COP-26 Climate Summit.
- (xiv) As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey (10 Kms radial coverage from the project site) and undertake community developmental activities in consultation with the village Panchayat and the District Administration. In this regard, time bound action plan as per the MoEF&CC Office Memorandum dated 30/09/2020 shall be submitted.

- (xv) Traffic study shall be carried out inter-alia including existing road details with traffic load, proposed quantum of material to be transported by sea/rail/road with anticipated vessels/rakes/vehicles details, line source modelling and infrastructure strengthening details etc., These details shall be included in the EIA report.
- (xvi) Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.
- (xvii) Action plan to limit the dust emission from all the stacks below 30 mg/Nm³ shall be furnished.
- (xviii) Air Cooled condensers shall be used in the captive power plant.
 - (xix) A Plan of Action for disposal of e-waste must be drawn up and implemented.
 - (xx) PP shall explore the possibility of plastic waste utilization in the Plant/Unit process.
 - (xxi) Action Plan for fire fighting system including provision for flame detectors, temperature actuated heat detectors with alarms, automatic sprinkler system, location of fire water tanks & capacity, separate power system for fire fighting, details of qualified and trained fire personnel & their job specifications, nearest fire station & time required to reach the proposed site shall be submitted.
- (xxii) The PP to prepare 3 separate drawings. In drg 1 PP to show complete layout, Road network, Parking, Plant construction along with area statement, proper indexing with colour codes etc. In drag 2 PP to show road networking with existing and proposed green belt with area calculations with its % against plot area. In drg 3 PP to prepare contour drawing with road networking, drainage disposal system, RWH system with drawings, designs and calculations along with indexing and colour code for drainage network etc.

DAY 2: MARCH 1, 2023 (WEDNESDAY)

Consideration of Environmental Clearance Proposals

Agenda No. 24.6

24.6 Expansion of Cement Plant (1.20 to 3.00 MTPA) and Clinker (1.10 to 2.21 MTPA) with 8.5 MW WHRS located in 48.71 ha, M/s Shree Digvijay Cement Company Ltd., located at P.O. Digvijaygram, Sikka, District Jamnagar, Gujarat- Consideration of Environmental Clearance.

[Proposal No. IA/GJ/IND1/415935/2023; File No. IA-J-11011/409/2019-IA-II(IND-I)] [Consultant: MIN MEC Consultancy Pvt. Ltd.; Valid Upto: 29.03.2025]

- 24.6.1 M/s Shree Digvijay Cement Company Ltd. has made an online application vide proposal no. IA/GJ/IND1/415935/2023 dated 27.01.2023 along with copy of EIA/EMP report, Forms (Part A, B and C) and certified compliance report seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at S. No. 3(b) Cement Plants under Category "A" of the schedule of the EIA Notification, 2006 and appraised at central level.
- 24.6.2 Name of the EIA consultant: M/s. MIN MEC Consultancy Pvt. Ltd. [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/2225/IA0096; Valid up to 29.03.2025, as on February 27, 2023].

Details submitted by Project proponent

24.6.3 The details of the ToR are furnished as below:

Date of	Consideration	Details	Date of	ToR Validity
application			accord	
01.06.2022	Standard ToR granted	Terms of	07.07.2022	07.07.2025
		Reference		

- 24.6.4 The project of M/s Shree Digvijay Cement Company Limited located at P.O. Digvijaygram, Sikka, Jamnagar District, Gujarat State is for enhancement of production capacity of Cement from 1.20 to 3.00 MTPA and Clinker from 1.10 to 2.21 MTPA along with existing 8.5 MW WHRS.
- 24.6.5 Environmental Site Settings:

Sl.	Particulars		Details		Remark	s
No						
i.	Total land	Land: 48.71 ha			Land use :	100%
					industrial	
ii.	Land	The existing plan	nt area is already	in possession of		
	acquisition	the company an	d expansion sha	ull be undertaken		
	details as per	within the existi	ng land. No add	itional land shall		
	MoEF&CC	be required for p	roposed expansion	on of project.		
	O.M. dated					
	7/10/2014					
iii.	Existence of	Project site : No	o habitation exist	t in the plant area		
	habitation &	so there is no R&	kR needed			
	involvement of					
	R&R, if any.	<u>Study area:</u>	<u>Study area:</u>			
		Habitation	Distance	Direction		
		SDCCL	20 m	West		
		Colony				
		Sikka	10 m	East to North		
		Nimaz	20 m	South west		

Sl.	Particulars	Details			Remarks	
No				- <u>-</u>		
		Colony				
		Mungni	750	South		
		village				
		GSECL (TPS) 400 m	South East		
		colony				
iv.	Latitude and	Point	Plant	Area		
	Longitude of		Latitude	Longitude		
	the project site	North	22°26'3.51"N	69°50'6.69"E		
		most				
		East	22°25'52.45"N	69°50'21.96"E		
		most				
		South	22°25'26.81"N	69°50'7.01"E		
		most				
		West	22°25'34.60"N	69°49'50.40"E		
		most				
v.	Elevation of	8-17 m above	mean sea level			
	the project site					
vi.	Involvement of	No forest land	involved			
	Forest land if					
	any.					
vii.	Water body	Project Site:	Project Site: A seasonal nala enters through the			
	exists within	SSE direction	into the plant bou	undary and exits in	CRZ area which has	
	the project site	south western	n direction and	covers a short	been certified by	
	as well as study	distance of 375	5 m in the south s	side of plant area.	National Centre for	
	area				Sustainable Coastal	
		<u>Study area :</u>			Management	
		River/ Nala	Distance (km) Direction	(NCSCM)	
		Gulf of	E 0.5	NW	(MoEF&CC),	
		Kachch			Chennai in January	
		Sasoi River	6.6	E	2020	
		Phuljar	8.4	SSW		
		River				
		Bed Dam	7.9	E		
viii.	Existence of	<u>Study area</u>				
	ESZ/ ESA/	Name of the H	ESZ/ESA: (1) Ma	arine National		
	national park/	Park, (2) ESZ,	(3) Marine Sanc	tuary		
	wildlife	Status of Notification: 22.08.2013 of ESZ				
	sanctuary/	Distance of p				
	biosphere	National Park	3.48 km, (2) ESZ	2 4.36 km, (3)		
	reserve/ tiger	Marine Sanctu	ary 1.48 km			
	reserve/	Authenticated	l map of ESZ pr	ojecting		
	elephant	distance of ES	SZ from project	site: received		

Sl.	Particulars	D	Remarks		
No					
	reserve etc. if	from Deputy Conservat	tor of Forest,	Marine	
	any within the	National Park, Jamnaga	ar, Gujarat		
	study area	Status of NBWL appr	oval: Not ap	plicable	
		List of reserved and	protected f	orests within	
		study area :			
		Name of forest	Distance	Direction	
		RF Near Sarmat	RF Near Sarmat8.1ENE		
		RF Near Khatia	RF Near Khatia 9.2 SSW		
		Bareja			
		Mangrove Swamp	1.8	NE	
		Near Sikka			
		Mangrove Swamp	6.6	NE	
		Near Patra Van			
		Creek			
		Mangrove Swamp	9.4	WNW	
		Near Mangeti Khadi			

- 24.6.6 The Company was established during 1944 and started commercial production of Cement / Clinker through wet process technology in the year of 1949. Dry Process Technology Cement / Clinker Plant's commercial production commenced on 1st September 1985. Thus, the Cement Plant was in operation prior to the EIA Notification of 1994 & 2006. The cost of project was less than Rs. 50 crores at the time of notification of the EIA Notification 1994 i.e. it was Rs. 32.61 crore at time of establishment of dry process in 1985 based on the certificate from Chartered Accountant submitted. Hence, the project was exempted from requirement of environment clearance under EIA notification 1994. No expansion was undertaken thereafter till date. The existing project was accorded latest Consent to Operate by Gujarat Pollution Control Board, vide Consent Order No.AWH-102081 dated 03.06.2019 valid till 25.03.2024.
- 24.6.7 Implementation status of the existing CTE/CTO:

Sl.	Facilities	Units as	Implementation status as on	Production as per
No.		per CTE	Jan 2023	СТО
1	Cement Plant (with	1.20	100% operational	1.20 MTPA
	clinker manufacturing)	MTPA		
2	Power generation from	8.5	100% installed but	8.5 MW
	Waste heat	MW	recovery 3.6 MW during	
			operation.	

24.6.8 The unit configuration and capacity of existing and proposed project is given as below:

Sl. No.	Plant Equipment/	Existin	g facilities	Prop Uni	Proposed Units		nal ting +	Remarks
	Facinity					Proposed)		
		Configur- ation	Capacity	Configu- ration	Capacity	Config- uration	Capacity	
1.	Cement plant	1 no. X 1.2 MTPA	1.2 MTPA	1 no. X 1.8 MTPA	1.8 MTPA	1 no. X 1.2 + 1 no. X 1.8 MTPA	3.0 MTPA	
2.	Clinker plant	1 no. X 1.10MTPA	1.10MTPA	1 no. X 1.11 MTPA	1.11 MTPA	1 X 1.10 + 1 no. X 1.11 MTPA	2.21 MTPA	Not mentioned separately In CTO
3.	Power generation from Waste heat	8.5 MW	8.5 MW	0	0	8.5 MW	8.5 MW	100% installed but recovery 3.6 MW during operation

24.6.9 The details of the raw material requirement for the proposed expansion project along with its source and mode of transportation is given as below:

Sl.	Raw material	Quantity	required p	er annum	Source	Distance	Mode of
No.		Existing (TPA)	Expansion (TPA)	Total (TPA)		from site (Kms)	transport- tation
1	Limestone	1668303	1675869	3344172	Own Mines - production capacity : • Gop- 0.25 MTPA • Pachhtar - 1 MTPA • Chorbedi- 0.9 MTPA • Pachhtardi - 0.35 MTPA	95 – 125 km	By trucks
					Purchase from Local Market	100 – 150 km	By trucks
2	Sandstone	34398	34554	68952	Gujarat	200 - 250 km	By trucks
3	Iron Ore	17199	17277	34476	Gujarat (usually Chotila)	300 -400 km	By trucks
4	 Coal / Pet coke Alternate Fuel 	170814	148848	319662	Imported Coal/ Domestic Coal/ Petcoke/ Lignite Gujarat	Imported (port ~50 km)/ Domestic ~500	By trucks / By dumpers / By Sea By trucks /
	(Plastic waste /				~		By tankers

Sl.	Raw material	Quantity	required p	er annum	Source	Distance	Mode of
No.		Existing (TPA)	Expansion (TPA)	Total (TPA)		from site (Kms)	transport- tation
	Municipal waste / RDF / etc.)						
5	Clinker	898696	1284104	2182800	in house &	Within plant,	Conveyors,
					purchase	Within	Trucks
						Gujarat	(when
						(when	purchased)
						purchased)	
6	Fly ash	235974	418026	654000	Local (Various	20 - 400 km	By trucks /
					Power Plants)		bulkers
7	Mineral Gypsum/	65330	97870	163200	Local/ Import	100 - 300 km	By trucks /
	Marine Gypsum/						By Sea
	Chemical gypsum/						
	Phoshpho gypsum/						
	PP Mold / etc.						
	Total	3090714	3676548	6767262			

- 24.6.10 Existing Water requirement is 150 m³/day, water requirements is obtained from the existing tube wells within the plant premises and permission for the same haas been obtained from Central Ground Water Authority (CGWA), Govt. of India vide NOC letter no. CGWA/NOC/IND/ORIG/2021/12448 dated 13/07/2021 valid till 12/07/2024 for a quantity of 250 m³/day. The additional water requirement for the proposed project is estimated as 90 m³/day and will be met from same ground water source and permission.
- 24.6.11 Existing power requirement of 15.1 MW is obtained from WHRS (3.6 MW) and state electricity grid (11.5 MW). The power requirement for the proposed project is estimated as additional 15.9 MW, out of which 4.9 MW will be obtained from the WHRS and 12.5 MW form the state electricity grid.
- 24.6.12 Baseline Environmental Studies:

Period	March to May 2021
AAQ	• $PM_{2.5} = 52.2$ to 88.0 $\mu g/m^3$
parameters at 8	• $PM_{10} = 28.7 \text{ to } 51.5 \ \mu\text{g/m}^3$
Locations(min	• $SO_2 = 10.0$ to 28.0 $\mu g/m^3$
and max)	• $NO_x = 13.7 \text{ to } 34.9 \ \mu g/m^3$
	• $CO = 0.115$ to 0.802 mg/m^3
Incremental	• Due to expansion based on air quality prediction modelling:
GLC level	• PM $10 = 2.838 \ \mu g/m^3$; (level at 300 m in E direction)
	• PM2.5 = $0.612 \ \mu g/m^3$; (level at 300 m, E direction)
	• $SO2 = 3.014 \ \mu g/m^3$ (level at 1.6 km in E direction)
	• NOx = $13.264 \ \mu g/m^3$ (level at 1.6 km in E direction)

Ground water	pH: 7.2 to 7.5, Total Hardness: 308 to 1448 mg/l, Chlorides: 102 to 982 mg/l,						
quality at 8	Fluoride: 0.23 to 0.72 mg/l. Heavy metals are within the limits.						
locations							
Surface water	pH:7.3 to 8.8, DO: 2	2.5 to 7.5 mg/l, I	BOD: 9 to 240 m	g/l and COD: 19	to 670		
quality at 8	mg/l						
locations							
Noise levels	50.39 to 68.78 dBA	for the day time	e and 40.80 to 63.	37 dBA for the N	Night time		
Leq (day and	at 9 locations						
night)							
Traffic	• Traffic study ha	as been conduct	ted at (1) T1- Re	oad from Plant t	o National		
assessment	Highway 947 r	near material gat	te., (2) T2- Road	from Nani Khav	vdi Village		
study findings	to NH947, nea	r H P Petrol-	Pump and (3) T	3-Road from Ja	mnagar to		
	Khambhlia, at t	oll plaza near Bo	ed village.				
	Transportation	of raw material,	fuel & finished p	product will be d	one almost		
	100% by road.						
	• Existing PCU a	nd Level of Serv	vice (LoS) is give	en below:			
	_		_				
	Road	V	C (Capacity i	in Existing	LoS		
		(Volume in	PCU/ hr.)	V/C Ratio			
		PCU/hr.)					
	Plant to National	761	1286	0.59	С		
	Highway 947,						
	near material						
	gate.						
	Nani Khavdi	1260	1714	0.78	С		
	Village to						
	NH947, near H P						
	Petrol- Pump						
	Jamnagar to	3970	5143	0.77	С		
	Khambhlia, toll						
	plaza near Bed						
	village						
	 PCU load after proposed project will be Existing volume as given in above table + 78 (additional PCU/hr) and level of service (LOS) will be as follows: 						
	Road	V (Volume	C (Capacity	Proposed	LoS		
	in PCU/ day PCU/ day) V/C Ratio						
	Plant to National	839	1286	0.652	С		
	Highway 947,						
	near material						
	gate.						
	Nani Khavdi	1338	1714	0.78	С		
	Village to						

	NH947, near H P						
	Petrol- Pump						
	Jamnagar to	4048	5143	0.787	С		
	Khambhlia, toll						
	plaza near Bed						
	village						
	Note: Capacity as pe	er IRC-106-199	0 Guide line for c	capacity for road	s.		
	Conclusion: The lev	vel of service w	ill C after includ	ing additional tra	affic due to		
	proposed project.						
Flora and fauna	Peafowl and Monite	or Lizard are th	he schedule I fai	una. Site Specif	ic Wildlife		
	Conservation Plan l	has been submi	tted to The Dep	uty Conservator	of Forest,		
	Jamnagar, Gujarat vide Letter no. SDCCL/EHS/F-14 dated 05.08.2022. We						
	have also received letter from PCCF (WL), Gandhinagar stating that our WL						
	Conservation Plan	is under appro	val process vide	e letter no. WL	/TEI/2022-		
	23/1102 dated 21.02	2.2023.					

24.6.13 The details of solid and hazardous waste generation along with its mode of treatment/disposal is furnished as below:

Sl.	Type of waste		Quantity		Mode of disposal	Agreement
No.		Existing	Proposed	Total		details for disposal
1	Solid Waste (ESP, bagfilters and housekeeping (TPA))	7,88,214	7,69,048	15,57,262	100% will be recycled in the plant itself.	In-house
2	Hazardous Waste (Used oil & grease) (kg/ annum))	7,440*	5,000	12,440	will be handed over to authorized CPCB/ SPCB authorized recycling vendors / co-processed.	-

24.6.14 Public Consultation:

Details of advertisement		ertisement	English Newspaper - The Times of India dated 15.12.2022			
given			Gujarati News paper - Sandesh dated 15.12.2022 (typing error			
			correction published on 16.12.2022)			
Date	of	public	17.01.2023			
consulta	tion					
Venue			Open Plot in premises of Digvijay Cement Company Limited, Old			
			Survey. No. 51/1, (New Survey. No. 393) & Old Survey. No. 52,			
			(New Survey. No. 402) Near Shree Dham Guest House, Village			

	Digvijaygram, Sikka, Taluka Jamnagar, District Jamnagar
Presiding Officer	District Collector and District Magistrate, Jamnagar
Major issues raised	i. Education
	ii. Health Care
	iii. Pollution control
	iv. Livelihood Support
	v. Restoration of Sports and religious festivals
	vi. Roads
	vii. Community infrastructure development
	viii. Employment

Table: Action plan as per MoEF&CC O.M. F.No. 22-65/2017-IA.III dated 30/09/2020

Sl. No.	Physic	Year of	Total Expenditure				
			(Budg	(Budget in Rs. lakhs)			
	Name of the Activity	Physical Target	Year 1	Year 2	Year 3	Total	
1	Education		25	25	25	75	
1.1	School infrastructure development and additional support for needy children Promotion of girl education	Support to poor children (~20 nos.) of villages Sikka, Bhunga, Ramnagar & Mungani Free computer training (~15 students) & stitching classes (~15 students) in above 4 villages Monitory support for needy and from poor background girl children	15 10	15 10	15	45 30	
	studies	(Max. 10) for education and higher studies of villages Sikka, Bhunga, Ramnagar & Mungani					
2	Health Care		20	25	25	70	
2.1	Provision of Health care	Quarterly health check-up by a team of Doctor, Paramedical staffs, technicians with free distribution of medicines in villages Sikka, Bhunga, Ramnagar, Shree Jee Colony & Mungani in rotation	5	10	10	25	
2.2	Awareness programmes on health issues	Health awareness programmes on water borne, vector borne, communicable diseases and other health related issues annually in	5	5	5	15	

Sl.	Physic	cal activity and action plan	Year of Implementation		Total	
No.					Expenditure	
			(Budg	et in Rs. la	khs)	(In Rs.
		shove 5 willoges			[lakns)
- 2.2	A	above 5 villages.	۲	<i>_</i>	~	1.5
2.3	Assistance to	Necessary guidance to old age	5	5	5	15
	people /	maximum benefit under different				
	Persons with	Central/ State govt. schemes in PPP				
	Disabilities	mode in above 5 villages				
2.4	Animal	Doctor on call will cater the needs	5	5	5	15
	Health Camp/	of the surrounding population.				
	Veterinary					
	Services					
3	3 Pollution		20	20	20	60
2.1	Control		5	F	5	15
3.1	water	On approach roads towards raw	5	5	5	15
32	Concreting of	Construction of Roads (Year 1 -	10	10	10	30
5.2	roads	Captive jetty to plant & public road	10	10	10	50
		near G-Type; Year 2- Road of				
		Sikka to Digvijaygram, year 3- road				
		connecting Rokadia Hanuman				
		Temple to Sikka)				
3.3	Collection	Collection system for plastic waste	5	5	5	15
	and processing of	and consumption as alternate fuel				
	Solid Waste	(conection truck i no. with manpower)				
	from nearby	Installation of 15 nos, dustbins at				
	villages	public places of villages Sikka,				
		Bhunga, Ramnagar & Mungani.				
4	Livelihood		10	10	10	30
	Support					
4.1	Support to	Providing skill development	10	10	10	30
	SHG	training and financial as well as				
		other supports will be extended for				
	promotion of livelihood					
	- Distribution of sewing mac					
		nearby community (7 nos.)				
		- Training & education on				
		computer & stitching classes for				
		dependents & ladies (12 nos.)				

Sl. No.	Physical activity and action plan		Year of Implementation			Total Expenditure
			(Budg	get in Rs. la	khs)	(In Rs. lakhs)
		Target villages : Sikka, Ramnagar, Bhunga, Housing Board, Shree jee colony				
5	Restoration of Sports and religious festivals		15	15	15	45
5.1	Financial assistance for cultural programme	Financial assistance for different cultural programmes in periphery villages	10	10	10	30
5.2	Sport activities	 Promote sports activities in villages Creating sports ground at Kalyan Kendra, Digvijaygram Development of cricket ground at DCC Volleyball ground at Kalyan Kendra, Digvijaygram Children play area near market area, Digvijaygram 	5	5	5	15
6	Roads		10	10	10	30
6.1	Maintenance of road	Repairing and maintenance of road in villages of Sikka, Ramnagar, Bhunga, Housing Board & Mungani	10	10	10	30
7	Community infrastructu re development		30	30	30	90
7.1	Development of community infrastructure	Different community infrastructure like Club, Kalyan mandap etc in phased manner (Year 1 - Construction of cultural mandap near Bhunga / Ramnagar village)	15	15	15	45
7.2	Development of Village infrastructure	 Development of connection of water supply (Near Bhunga / Ramnagar) Drinking water source near market area 	15	15	15	45

Sl.	Physical activity and action plan		Year of Implementation		Total Exponditure	
110.	(Budget in Rs. lakhs)		akhs)	(In Rs. lakhs)		
		 Water harvesting project, street lights, drainage system, temple, etc. in villages of Sikka, Ramnagar, Bhunga, Housing Board & Mungani 				
8	Employment					
8.1	Local employment	Skill enhancement programs for workers in villages of Sikka, Bhunga, Mungani, to support local employment based on their skill, capability, qualification, experience etc. at the time of employment.	10	10	10	30

24.6.15 The existing capital cost of project was Rs. 32.61 crore at time of establishment of dry process in 1985. The capital cost of the proposed project is Rs. 675 Cr and the capital cost for environmental protection measures is proposed as Rs 43.68 Crore. The annual recurring cost towards the environmental protection measures is proposed as Rs 6.62 Crore. The employment generation from the proposed project/ expansion is 379 (direct) & 780 (indirect) persons. The details of the cost for environmental protection measures is as follows:

Description	Existing (Rs. in lakhs)		Proposed (Rs. in lakhs)		
	Capital	Recurring	Capital	Recurring	
	Cost	cost	Cost	cost	
Air pollution control	207.00	775.56	4115.00	612.39	
Water pollution control	108.00	18.58	36.00	1.68	
Noise pollution control	10.00	3.17	10.00	0.33	
Environment Monitoring	99.10	32.50	160.50	15.00	
Occupational health	49.5	18.04	12.5	4.41	
Green belt	6.45	2.54	34.05	4.54	
Others	0.00	32.81	0.00	24.14	
Total	480.05	883.2	4368.05	662.49	

24.6.16 Existing greenbelt has been developed in 2.58 ha area which is about 5.3% of the total project area of 48.71 ha with total sapling of 38000 trees. Proposed greenbelt will be developed in 13.61 ha which is about 27.9% of the total project area. Thus, total of 16.19 ha area (33.26% of total project area) will be developed as greenbelt. A 4 to 200 m wide greenbelt, consisting of at least 3 tiers around plant boundary will be developed as greenbelt and green cover as per CPCB/MoEF&CC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 33645 saplings will be planted and nurtured in 13.61 ha in 5 years.

24.6.17 It has been reported by PP that, there is no violation under EIA Notification, 2006/court case/show cause/direction related to the project under consideration.

Certified compliance report from CPCB

24.6.18 The status of compliance of consent to operate (CCA Order No. AWH-102081 dt. 03.06.2019) was obtained from Regional Office, Jamnagar of GPCB vide letter no. GPCB-CCA-JMN-145(15)/ID-17132/684346 dated 15.10.2022 to MoEF&CC. As per the report of IRO, all conditions have been complied with.

Deliberations by the Committee

- 24.6.19 The Committee noted the following:
 - 1. The instant proposal is for enhancement of production capacity of Cement from 1.20 to 3.00 MTPA and Clinker from 1.10 to 2.21 MTPA along with existing 8.5 MW WHRS.
 - 2. As reported by PP, the company was established during 1944 and started commercial production of Cement / Clinker through wet process technology in the year of 1949. Dry Process Technology Cement / Clinker Plant's commercial production commenced on 1st September 1985. Thus, the Cement Plant was in operation prior to the EIA Notification of 1994 & 2006. The cost of project was less than Rs. 50 crores at the time of notification of the EIA Notification 1994. Hence, the project was exempted from requirement of environment clearance under EIA notification 1994. PP shall submit the cost of the project as on 27.01.1994 and the basis for the same. The EAC is also of the production levels and have not committed any violation under EIA Notification, 2006 in the instant case.
 - 3. Sikka (10 m, East to North), Nimaz Colony (20 m, South west), Mungni village (750m, South) and GSECL (TPS) colony (400 m, South East) falls within 10 km radius study area of the project site. Also, there are two schools present adjacent to the project site namely SDDCL Public School (arial 20 m from plant boundary) and SDDCL Pre Primary &Primary School (arial 45 m from plant boundary). Considering the Environmental Sensitivity to the habitation in the area, the EAC opined that it is prudent to inspect the area for understanding the ground reality as the area appears to have rich habitation.
 - 4. A seasonal nala enters through the SSE direction into the plant boundary and exits in south western direction and covers a short distance of 375 m in the south side of plant area. Gulf of Kachchh is at a distance of 0.5 km in the NW direction. The EAC is of the opinion that water bodies are required to be conserved. Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures is not submitted. Further during preparation of drainage conservation plan, PP shall prepare a contour map showing contour interval, proper Bench Mark, Drainage disposal with design and calculations, Rain Water Harvesting Plan with design and calculation including the invert level of disposal point in order to achieve ZLD.

- 5. As reported, Marine National Park is at a distance of 3.48 km and its ESZ at a distance of 4.36 km. Also Marine Sanctuary is at aditance of 1.48 km from the project site. ESZ from the project site along with the authenticated map from State Forest Department and also ensuring the coordinates of the project site are to be mentioned in the certificate. Also, comments of ESZ division of MoEF&CC may be obtained whether the proposal falls outside the ESZ boundary of the Marine National Park and Marine Sanctuary.
- 6. There is no proper Engineering drawing of a layout. It is missing area statement, index etc. The PP shall prepare 3 separate drawings as a layout details. In Drg 1 PP shall cover Road networking, Plan Layout, Parking along with area statement showing % of all ingredients i.e. roads, Buildings, Parking, with indexing, scale of drawing etc. In no case road shall be abruptly terminated at any point. It shall have proper looping. PP also to show traffic flow in the drawing along road with entry and exit. In drg 2 PP shall show a layout indicating road networking, Existing Green belt and proposed Green Belt with its % against plot area including no of species WRT 2500 density per ha. In drg3 PP shall show contour map with Bench mark, Road network and drainage network along road side with drainage flow, disposal of drainage flow at lowest point with invert level etc. Further PP to show RWH details in the same drawing with calculations.
- 7. Further, PP shall undertake village adoption and formulate Village Adoption program consisting of need-based community development activities, to develop them into model villages. PP shall submit details of the villages to be adopted.
- 8. The EAC deliberated on the baseline data and observed that the maximum values of PM10 and PM2.5 are very high. Also, some of the parameters of ground water such as Total hardness, chlorides and parameters of surface water such as BOD and COD are very high. Considering the Environmental Sensitivity to the habitation in the area, the EAC opined that it is prudent to inspect the area for understanding the ground reality as the area appears to have rich habitation.
- 9. The Committee deliberated on the incremental GLC due to the proposed project and observed that incremental GLC for CO has not been submitted in the brief. In this regard, the EAC is of the opinion complete information in this regard shall be submitted.
- 10. Two Schedule-I species namely Peafowl and Monitor Lizard were found within 10 km radius of the study area of the plant site during biological study. It is reported that Site Specific Wildlife Conservation Plan has been submitted to The Deputy Conservator of Forest, Jamnagar, Gujarat vide Letter no. SDCCL/EHS/F-14 dated 05.08.2022 and PP has also received letter from PCCF (WL), Gandhinagar stating that our WL Conservation Plan is under approval. In this regard PP needs to submit the updated status on the approval of conservation plan.
- 11. The EAC deliberated on the details submitted pertaining to solid and hazardous waste generation along with its mode of treatment/ disposal and observed that PP has not taken into account all the major soild wastes generated out of operations. PP needs to re-visit the details and include the same in the EIA/EMP report.
- 12. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions and the associated EMP cost and found it unsatisfactory. The

EAC is of the opinion that that the EMP cost do not commensurate with the project cost. The EMP measures and associated cost needs to be revisited.

- 13. The Committee also deliberated on the public hearing issues along with action plan submitted by the proponent to address the issues raised during the public hearing and is of the view that the action plan does not justify the addressal of issues effectively. PP needs to revise the action plan in conformity to MoEF&CC O.M. F.No. 22-65/2017-IA.III dated 30/09/2020.
- 14. The EAC noted, PP has reported that existing greenbelt has been developed in 2.58 ha area which is about 5.3% of the total project area of 48.71 ha with total sapling of 38000 trees. Considering that the plant operations are running for more than seven decades, PP has not been able to develop 33% greenbelt. PP shall submit the justification in this regard along with details of the greenbelt and photographs. Also, PP shall re-verify figures submitted in brief pertaining to planted saplings which appears to be wrong figure.
- 15. PP shall also submit the measures undertaken for conservation of mangroves.
- 16. The total water requirement of 240 m³/day after expansion is proposed to be obtained from ground water. PP shall explore the possibility to identify alternate source of water to fulfill its water requirement.
- 17. PP shall also submit the list of any show cause notices received from SPCB and their closure action, during last 3 years.
- 18. PP shall submit the details of jetty involved in the itegrated project and whethere required permissions have been obtained from the Competent Authority.
- 19. Action Plan for fire fighting system including provision for flame detectors, temperature actuated heat detectors with alarms, automatic sprinkler system, fixing the location of fire water tanks, separate power system for fire fighting, involvement of qualified and trained fire personnel, nearest fire station & time required to reach the proposed site shall be submitted.
- 20. The PP/Consultant has to revise the EIA/EMP Report along with all the details as per the provisions of the EIA Notification, 2006.
- 21. Thus, in view of the above observations the EAC is of the opinion that it is pertinent to undertake site visit of the sub-committee of the EAC to understand the ecological/environmental sensitivity of the area/ complexity of the project/ size of the project and the various other issues involved in the project as mentioned above. In view of crucial project in terms of location and enormous number of issues are involved, the EAC is suggests to conduct the site visit through sub-committee so that all the issues are addressed accordingly for this project.

Recommendations of the Committee:

In view of the foregoing and after deliberations, the Committee recommended to defer the proposed project and recommended for site visit of the proposed project area by a subcommittee of EAC Industry-1 members comprising of Dr. Hemant Sahasrabuddhe, Dr. Sanjay Bist, and Representative of MoEFCC, New Delhi to conduct the site visit and submit the factual Report covering all the issues. The proposal shall be appraised based on the findings of the sub-committee and deliberation of EAC in the next meeting.

Agenda No. 23.7

24.7 Proposed 56,000 TPA Green Field Coal Tar Distillation Plant for production of 30,800 TPA of Coal Tar Pitch; 22,120 TPA of Creosote Oil (light and heavy) and 1680 TPA of Crude Naphthalene by M/s B S Tar Pvt. Ltd., located at Export Promotion Industrial Park (EPIP), underWBSIDC Ltd., Village: Bamunara, Mouza: Bamunara, P.S.: Kanksa, District: Paschim Bardhaman, West Bengal - Consideration of Environmental Clearance.

[Proposal No. IA/WB/IND1/412998/2023; File No. IA-J-11011/2/2023-IA-II(I) [Consultant; Envirotech East Pvt. Ltd. ; Valid Upto: 25.03.2023]

24.7.1 M/s. Sakthi Ferro Alloys (India) Private Limited has made an online application vide proposal no. IA/WB/IND1/412998/2023 dated 20.02.2023 along with copy of EIA/EMP report, Forms (Part A, B and C) seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at S. No. 4(b)(ii) Coal Tar Processing Units under Category "B1" of the schedule of the EIA Notification, 2006 and attracts general condition due to project activity falling within 5 Km. of the boundary of Durgapur Municipal Corporation area, which is declared as Severely Polluted Area and therefore being appraised at central level.

Deliberations by the Committee

- 24.7.2 The Committee noted the following:
 - 1. The instant proposal is for a Coal Tar Distillation Plant to produce 30,800 TPA of Coal Tar Pitch, 22,120 TPA of Creosote Oil (light and heavy) and 1,680 TPA of Naphthalene.
 - 2. The EAC noted that M/s B. S. Tar Pvt. Ltd. had initially made an online application SEIAA West Bengal and the matter was considered by the SEAC in its 50th meeting held on 31.08.2022. The SEAC considered the O.M. of MoEF&CC vide F No. 22-23/2018.IA.III [E 115231] dated 05.07.2022 along with O.M. dated 31.10.2019 and 30.12.2019 and observed that the project activity falls within 5 Km. of the boundary of Durgapur Municipal Corporation area, which is declared as Severely Polluted Area, the same may be considered at MoEF&CC as directed in the O.M.s referred above.
 - 3. Further, the EAC noted that the proposed project activity is listed at S. No. 4(b)(ii) Coal Tar Processing Units of the schedule of the EIA Notification, 2006 and the same is being dealt by Industry-II sector of IA Division of MoEF&CC. However, the Consultant has selected the wrong category of the project as S. No. 4(b)(i) Coke Oven, so the same is generated as Ind1 project ID.
 - 4. Further, the project proponent/consultant also admitted that they have wrongly selected the 4(b)(i) Coke oven schedule; However the correct category as S. No. 4(b)(ii) Coal Tar

Processing Units. Due to mistake by the Consultant, the proposal is submitted to Industry-I sector of IA Division.

Recommendations of the Committee

24.7.3 In view of the foregoing and after detailed deliberations, the committee recorded that the instant proposal pertains to 4(b)(ii) Coal Tar Processing Units schedule of the EIA Notification, 2006 which is being dealt by Industry-II sector of IA Division of MoEF&CC, therefore EAC advised the Member Secretary, Industry-I, MoEF&CC to forward the proposal to Industry-II sector of IA Division of MoEF&CC for their consideration.

Agenda No. 24.8

24.8 Modification-cum-Expansion of Ferro Alloy Plant (under violation) Modification of existing 2x5 MVA SEAF's to 2x6 MVA SEAF, Modification of existing 1x7.5 MVA SEAF to 1x9 MVA SEAF, Existing 1x9.0 MVA SEAF, establishment new 1x9 MVA SEAF & new 12MT per batch CLU Converter for refining liquid HC FeMn to MC/LC FeMn by M/s Bihar Foundry & Castings Limited, located at Plot No 1405(P), Ramgarh Industrial Area, Marar Village, Ramgarh Tehsil & District, Jharkhand- Consideration of Environmental Clearance under Violation category.

[Proposal No. IA/JH/IND1/417175/2023; File No. J-11011/384/2010-IA-II(IND-I)] [Consultant: Pioneer Enviro Laboratories & Consultants Pvt. Ltd.; Valid upto 11.03.2023]

- 24.8.1 M/s. Bihar Foundry & Castings Limited has made an online application vide proposal no. IA/JH/IND1/417175/2023, dated 20th February 2023 along with copy of EIA/EMP report, Form (A, B and C) and Certified Compliance report seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at S. No. 3(a) Metallurgical industries (ferrous & non-ferrous) under Category "A" of the schedule of the EIA Notification, 2006 and appraised at central level.
- 24.8.2 Name of the EIA consultant: M/s Pioneer Enviro Laboratories & Consultants Pvt. Ltd. [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/1922/SA 0148; valid upto 11.03.2023, as on February 27, 2023].

Details submitted by the project proponent

24.8.3 The detail of the ToR is furnished as below:

Date of	Consideration	Details	Date of	ToR Validity
application			accord	

12 th September	24 th meeting of	Terms of Reference	24.11.2020	23.11.2024
2020	EAC Dt. 27 th to 29 th			
	October 2020			
21 st October 2022	16 th meeting of	Terms of Reference	19.12.2022	
	EAC dated 3 rd	(Amended-under		
	November 2022	violation)		

24.8.4 The project of M/s. Bihar Foundry & Castings Limited located in Plot No 1405(P), Ramgarh Industrial Area, Marar Village, Ramgarh Tehsil & District, Jharkhand is for Modification cum Expansion of Ferro Alloy Plant of existing 2x5 MVA SEAF's to 2x6 MVA SEAF, Modification of existing 1x7.5 MVA SEAF to 1x9 MVA SEAF, Existing 1x9.0 MVA SEAF, New 1x9 MVA SEAF & New 12MT per batch CLU Converter for refining liquid HC FeMn to MC/LC FeMn.

S.No.	Particulars		Details su	bmitted by th	e PP		
1.	Total land	 Total 2.91 H lease from Development 30 years. 2.91 Ha. (7. Industrial lan taken up in th Additional la acquired for with 40% of situated in Severely Pol 			7.18 Acres), of land has taken on Jharkhand Industrial Area uthority (JIADA) for a period of Acres) of Existing plant land is The proposed expansion will be existing plant premises only. of 1.385 Ac. (0.56 Ha.) has been velopment of Greenbelt to comply 01 Ha. (7.18 Acres) as the plant is mgarh industrial area which is		
2.	Land acquisition details as per	Total 2.91 Ha. (7.18 Acres), of land has taken on lea		ease			
	MoEF&CC,O.M.dated7/10/2014.	from J	harkhand In	dustrial Area	a Developn	nent	
		Authorit	y (JIADA) for	r a period of 30 years.			
3.	Existence of habitation &	Project	site: No habita	tion exists in t	he plant site		
	involvement of R&R, if any.	Study A	rea :			_	
		Habita	tion	Distance	Direction		
		Palamu	I Colony	0.4 kms.	NE		
		Marar		0.8 kms.	Ν		
4.	Latitude and Longitude of all	The follo	owing are the (Coordinates of	the Plant site	-	
	corners of the plant site	S.No.	Point	Coo	rdinates		
		1.	Point # 1	23°39'33.79"1	N, 85°30'20.85	"Е	
		2.	Point # 2	23°39'33.67"1	N, 85°30'24.03	"E	
		3.	Point # 3	23°39'26.99"1	N, 85°30'25.12	"E	
		4.	Point # 4	23°39'25.39"1	N, 85°30'23.90	"Е	
		5.	Point # 5	23°39'25.35"1	N, 85°30'19.63	"Е	
5.	Elevation of the project site		199.5	5 m to 200.5 m			
6.	Involvement of Forest Land, if	Nil					

S.No.	Particulars	Details submitted by the PP		
	any			
7.	Water body (Rivers, Lakes,	Study area:		
	Pond, Nala, Natural Drainage,	Habitation	Distance	Direction
	Canal etc.,) exists within the	Damodar River	1.4 Kms.	S
	project site as well as study area	Raura Nala	2.5 kms.	E
		Meramgarh Nala	5.4 Kms	E
		Unnamed stream	0.5 Kms	W
		Ramgarh Village	4.0 Kms	S
		pond		
		Seota village Pond	1.5Kms	NE
8.	Existence of ESZ / ESA /	There are no ESZ/ES	SA/National Pa	rk/ Wild life
	National Park / Wildlife	sanctuary / Biosphere	reserve / Tig	ger Reserve /
	Sanctuary / Biosphere Reserve /	Elephant Reserve within	10 km. radius o	of the plant.
	Tiger Reserve / Elephant Reserve			
	etc. if any within the study area			
9.	Industrial areas / cluster	Ramgarh is declared S	Severely Pollute	ed area (SPA)
	(MoEF&CC Office	with CEPI index	65.11 by	CPCB vide
	Memorandum dated 13 th January	No.B29012/ESS(CPA)/	2015-16/ dated	a 26th April
	2010) and its subsequent	2016.		
	amendments	Compliance of all the co	onditions application	able to CEPI is
		prepared. Particulate er	nission will be	less than 30
		mg/Nm ³ .Greenbelt of 4	0% of the proje	ct area will be
		developed. CER alloca	tion will be 1.	5 times of the
		normal calculated amou	nt i.e. Rs.1.34 C	Crores.

24.8.6 The existing project was accorded environmental clearance vide F. No. J-11011/384/2010-IA (II) (I) dated 31.10.2011. Consent to Operate for the existing unit was accorded by JSPCB vide no. JSPCB/HO/RNC/CTO-4412165/2020/1819 dated 10.11.2020 (which is in the name of GAUTAM FERRO ALLOYS (UNIT OF BFCL) which is valid upto 31-12-2025. Subsequently name of the plant in CTO has been changed to Bihar Foundries & Castings Limited vide order dated 23.01.2023 and is valid till 31.12.2025.

S.	EC/CTE /EC	Units permitted	Date of	Remarks
No.	Extension		permission	
	Permissions			
1	CTE vide No. 3937	SEAF – 2x5 MVA	24.02.2000	CTE obtained in the Name of
		26 TPD (SiMn)		M/s. Gautam Ferro Alloys
2	CTE vide No.2577	SEAF – 2x7.5	20.05.2009	CTE obtained in the Name of
		MVA		M/s. Bihar Foundry &
		30 TPD (SiMn)		Castings Ltd.
3	EC (for Expansion)	SEAF – 1x9 MVA	31.10.2011	CTO obtained in the Name of
	(MoEF, New Delhi)	(40 TPD-FeMn)		M/s. Bihar Foundry &
	Vide no. J- 11011 /	along with existing		Castings Ltd. in 2015

S.	EC/CTE /EC	Units permitted	Date of	Remarks
No.	Extension		permission	
	Permissions			
	384 /2010 - IA (II)	2x5 MVA (26		
	(I)	TPD)1x7.5 MVA		
		(30 TPD), TOTAL		
		96 TPD		
4	CTO Vide Ref. no	2x5 MVA	18.03.2014	CTO obtained in the Name of
	B-910	(26 TPD)		M/s. Bihar Foundry &
				Castings Ltd (Gautam Ferro
				Alloys)
5	CTO vide no. D-	70 TPD	07.07.2014	CTO obtained in the Name of
	1924(C)	(30+40 TPD)	VALID UP TO	M/s. Bihar Foundry &
			30.06.2015	Castings Lt. Unit Gautam
				Ferro Alloys
6	Consent-to-	40 TPD (1x9 MVA)	21.05.2014	CTO obtained in the Name of
	Establish (CTE)			Gautam Ferro Alloys unit of
	vide no. D-			BFCL
	1510(N),			
7	Consent to operate	96 TPD (2x5 MVA	12.03.2015	CTO obtained in the Name of
	vide noB-635	+ 1x7.5 MVA+ 1x9		M/s. Bihar Foundry &
		MVA)		Castings Ltd UNIT Gautam
				Ferro Alloys
8	Consent to operate	96 TPD (2x5 MVA	06.01.2016	CTO obtained in the Name of
	vide noB-42	+ 1x7.5 MVA+ 1x9		M/s. Bihar Foundry &
		MVA)		Castings Ltd UNIT Gautam
				Ferro Alloys
9	Consent to operate	96 TPD (2x5 MVA	10.11.2020	CTO obtained in the Name of
	vide no.1819	+ 1x7.5 MVA+ 1x9	valid up to	GAUTAM FERRO ALLOYS
		MVA)	31.12.2025	(UNIT OF BFCL)
10	Auto Renewal of	96 TPD (2x5 MVA	23.01.2023	CTO obtained in the Name of
	CTO vide no.1341	+ 1x7.5 MVA+ 1x9	valid up to	BIHAR FOUNDARY &
		MVA)	31.12.2025	CASTING
				LIMITED , Ferro Alloys Unit

24.8.7 Implementation Status of existing EC:

-	0			
S	Facilities As per EC dated	Implementation Status	Production as per	
No	31/10/2011	as on 24/11/2020	СТО	
1	Ferro Alloys Plant of 96 TPD	Ferro Alloy Plant of 96	96 TPD	
	(2x5 MVA SAF's and	TPD	(SiMn/ FeMn)	
	1x7.5+1x9 MVA SAF's with Jigging	(2x5 MVA + 1x7.5 MVA		
	unit and Micro Pelletizing facility	+ 1x9 MVA SEAF's		
		with Jigging unit and		
		Micro Pelletizing		
		facility)		

S	Name	Existing	Units	Proposed Units (Modific	ation-Cum-	Total		
No				expansion)	(Existing + Proposed)			
		Configuration	Production	Configuration	Production	Configuration	Production	
			TPA		TPA		TPA	
1	Ferro	2x5+1x7.5	34,080	Modification of	SiMn-	2x6 MVA +	SiMn- 58,575	
	Alloy unit	+1x9 MVA	(96 TPD)	existing 2x5 MVA to 2x6	24,495 TPA	3x9 MVA	TPA (165	
		SAF With		MVA SEAFs	(69 TPD)	SEAFs +	TPD)	
		Jigging unit	(SiMn /		(or)	12MT CLU		
	and Micro FeMn)		Modification of existing	FeMn-	Converter	(or)		
		Pelletizing		1x7.5 MVA to 1x9	59,995 TPA			
		facility		MVA SEAF	(169 TPD)	With Jigging	HC/MC/LC	
						unit and	FeMn-94,075	
				Existing 1x9 MVA		Micro	TPA	
				SEAF		Pelletizing	(265 TPD)	
						facility		
				New 1x9 MVA SEAF*				
				New 12MT per batch				
				CLU Converter for				
				refining liquid HC				
				FeMn to MC/LC FeMn				
No	te:			, to the second s				

24.8.8 The unit configuration and capacity of existing and proposed unit are given as below:

* PP has reported that they have constructed 5th Furnace i.e New 1 x 9 MVA SAF & CLU converter is under construction (70% work completed). Hence PP has applied under Violation as per SOP dated 07.07.2021.

24.8.9 The details of the raw material requirement for the proposed project along with its source and mode of transportation is given as below:

S.No. Raw Material		Quantity After Expansion (TPA)	Sources	Mode of Transport	
I	For Ferro Alloys (2x6 MVA	$\mathbf{A} + 3\mathbf{X}9 \mathbf{M}\mathbf{V}\mathbf{A}$	SEAFS)		
(i)	Ferro Manganese – 94,075	TPA			
a)	Manganese ore	2,35,188	Imported	By Rail & Road	
			(South Africa)	(through covered trucks)	
b)	Coke	70,556	Local market /	By Rail & Road	
			Imported	(through covered trucks)	
			(Australia)		
c)	Electrode Paste	1410	Local market	By road	
				(through covered trucks)	
d)	Quartz	28,222	Localmarket	By road	
				(through covered trucks)	
e)	Dolomite	23,518	Imported	By Rail & Road	
			(Bhutan)	(through covered trucks)	
	(OR)				
(ii)	Silico Manganese – 58,575	TPA			

S.No.	Raw Material	Quantity After Expansion (TPA)	Sources	Mode of Transport
a)	Manganese Ore	1,46,438	Imported	By Rail & Road
			(South Africa)	(through covered trucks)
b)	Coke	43,930	Local market /	
			Imported	
			(Australia)	
c)	Carbon paste	878	Local market	
d)	Dolomite	14,643	Imported	By road
			(Bhutan)	(through covered trucks)
e)	Fe-Mn Slag	29,288	Inhouse	By road
				(through covered trucks)

- 24.8.10 The total water requirement for existing plant is 35 m³/day which is being met from Groundwater source. NOC from CGWA has been obtained to abstract ground water of 35 m³/day for industrial use vide letter No. CGWA/NOC/IND/ORIG/2021/10628 dated 02/01/2021 which is valid upto 01/01/2024. The water requirement for the proposed expansion project is estimated as 148 m3/day, which will be sourced from Damodar River. The permission for drawl of surface water has been obtained from DVRRC, Damodar River (Tenughat Reservoir) Vide Lr. No. MD/DVRR/W-6(145)/2022/738-43 Dated 20-12-2022.
- 24.8.11 Total power consumption is 33 MW, in which meet from DVC 28.5 MW & 4.5 MW from Captive power plant of adjacent unit of BFCL.
- 24.8.12 Baseline Environmental Studies

Period	1st December 2019 to 29th February 2020 by M/s. Ampl Environ Pvt. Ltd.							
	Hyderabad.							
	Subsequently the Baseline data has been revalidated by Pioneer Enviro							
	Laboratories & Consultants Pvt. Ltd. by collecting additional 1 month data i.e.							
	from 1st May, to 31st May 2022.							
AAQ	(1 st December 2019 to 29 th February 2020)							
parameters at	• $PM_{2.5} = 34.7 \text{ to } 42.8 \ \mu\text{g/m}^3$							
8 locations	• $PM_{10} = 68.9 \text{ to } 86.3 \mu\text{g/m}^3$							
	• SO ₂ = 7.8 to 13.5 μ g/m ³							
	• NO _X = 17.4 to 26.2 μ g/m ³							
	• CO = 410 to 600 μ g/m ³							
	$(1^{st}May to 31^{st} May 2022)$							
	• $PM_{2.5} = 34.9 \text{ to } 46.2 \ \mu\text{g/m}^3$							
	• $PM_{10} = 69.1 \text{ to } 79.4 \ \mu\text{g/m}^3$							
	• $SO_2 = 7.8 \text{ to } 13.3 \mu\text{g/m}^3$							
	• NO _X = 15.5 to 27.1 μ g/m ³							
	• CO = $384 \text{ to } 744 \mu\text{g/m}^3$							

AAQ	$PM_{10} = 0.48 \mu g/m^3$ (1500 m in SE) PM_{10} (vehicular) = 0.10 $\mu g/m^3$							
modelling	SO_2 = There will not be any incremental SO_2 concentrations (24 hourly) due to							
	the proposed expansion project.							
	$NO_X = 2.99 \ \mu g/m^3 \ (1500 \ m in \ SE), NO_X \ (vehicular) = 0.80 \ \mu g/m^3$							
	CO (ve	ehicular)= 0.52 μg/n	n°					
Ground	Parameters : December 2019 May 2022							
at 8 locations	pН		:	7.51 to	07.92	7.24 to 8.	.01	
at 6 focutions	TDS		:	426 to	642 mg/l	456 to 70	456 to 706 mg/l	
	Total	Hardness	:	: 238.3 to 346.3 mg/l		243.4 to 3	243.4 to 364.5 mg/l	
	Chlor	rides	:	84.36 t	o 150.4 mg/l	99.4 to 14	99.4 to 141.6 mg/l	
	Fluor	ide	:	0.94 to	1.26 mg/l	0.88 to 1.	18 mg/l	
	Heav	y metals (Iron -Fe)	:	0.27 to	0.41 mg/l	0.19 to 0.1	34 mg/l	
	Heav	y metals are within the	he l	imits.				
Surface	Doros	motor		Door	mbor 2010	Moy 202	<u>)</u>	
water quality	nH	meter		7.54	to 7.86	$\frac{101ay}{7.08} \frac{202}{to 7}$	77	
	Total	Hard ness		136	$\frac{107.80}{02 \text{ to } 278.5}$	122.5 to	.//	
		in mg/l)	•	5 38	$\frac{10210278.3}{1078}$	5.0 to 7.0	255.0	
	BOD	in ing/1)	•	2.30	0 20 4	21 to 86	2.1 to 8.6	
	TDS(in mg/l)		•	318	to 543	2.1 to 0.0	, 56	
	Fluor	ide (in mg/l)	•	0.76	$\frac{100013}{10114}$	0.71 to 0	0.71 to 0.98	
	Chlor	rides (in mg/l)	:	67.6	to 157.1	55.3 to 1	33.8	
	Sulph	ates (in mg/l)	:	44.2	to 48.7	38.2 to 5	5.2	
Noise levels	The equivalent day noise levels are ranging from 52.10 dBA to 68.40 dBA &							
	equivalent Night noise levels are ranging from 42.70 dBA to 55.30 dBA in the							
	study zone during 1 st December 2019 to 29 th February 2020 carried out by by							
	M/s. AMPL ENVIRON PVT LTD.							
	D 1							
	Further	r Noise levels colle	cteo noi	during	g revalidation	of Noise l	evels in N	/lay
	2022, dRA <i>x</i>	and equivalent uay .	noi	se levels	s are ranging f	rom 36 80 d	IBA to 53	200 x 20
	dBA in	the study zone.	1101	SC ICVCI	are ranging r	10111 30.00 (IDA 10 SI	,.20
Traffic	Traffic	study has been	con	ducted	at National H	lighway #	20(Ranch	i –
assessment	Hazaribagh) which is at 7.0 Kms from the plant site.							
study								
findings	Transp	ortation of raw mate	eria	l, fuel&	finished produ	ct will be do	one by Rai	1&
	road.							
	Enistia	DOLL: 1095 DOLL	/1	on NITH	20 and arriating	I areal of Co		
		ig PCU 18 1085 PCU	/nr	UII INH#.	20 and existing	, Level of Se	ivice(LUS) IS
	Ra	amgarh to Kuju		(V)	(C)	Existing	LOS]

	(Ramgarh City Road)	(PCU/	hr)	(Capacity in PCU/hr)	V/C ratio		
	PCU/Hour	810.	9	1500	0.54		С
	PCU load after propos 48 PCU/hr (Additional	ed expansio) PCU/hr an	on proj d leve	ect will be 81 l of service (L	0.9 PCU OS) will	J/hr (E l be: C	Existing) +
	Ramgarh to Kuju	u (V	<i>V</i>)	(C)	Prop	oosed	LOS
	(Ramgarh City	(PCU	J /hr)	(Capacity in	ı V	/C	
	Road)	070		PCU/hr)	ra	tio	C
	PCU/Hour	050	5.9	1300	0.	57	C
	Level of Service (LOS	5) of the Ro	ad as j	per IRC 106:	1990		
	V/	С	LOS	S Performa	nce		
	0.0	- 0.2	Α	Excellent			
	0.2	-0.4	В	Very Goo	d		
	0.4	- 0.6	С	Good			
	0.6	- 0.8	D	Fair/ Aver	age		
	0.8	- 1.0	Ε	Poor			
	1.0	& Above	F	Very Poor			
	The level of service of proposed project. <i>Hence the existing ro</i> <i>due to the proposed ex</i>	will C (Goo ad is capable pansion pro-	od) aff le of t oject.	ter including aking the add	addition	al traf vehicu	fic due to <i>lar traffic</i>
Flora and fauna	No schedule -1 fau conservation plan is no	na found i ot applicable	n the	study area.	Hence	prepa	aration of

24.8.13 The details of solid and hazardous waste generation along with its mode of treatment/disposal is furnished as below:

S.	Waste / By	Waste / By Quantity (TPA)		Method of disposal	
No	Product	Existing	Proposed	After	
				expansion	
1.	Slag from	13,820	28,780	42,600	After Jigging, it will be reused in
	FeMn				manufacture of SiMn as it contains high
					SiO_2 and Silicon.
2.	Slag from	20,450	18,850	39,300	After Jigging, will be used for Road
	SiMn				construction / Used in Filling low lying
					areas etc.
3.	APCS dust	840	730	1575	Will be sent to Briquetting unit.
4.	Waste oil	80	160	240	Will be given to SPCB authorized
		Ltr/Annum	Ltr/Annum	Ltr/Annum	recyclers/reprocessors.

Hazardous waste generation, storage & disposal:

1.Waste oil: 0.24 KL / Annum
This will be stored in covered HDPE drums in a designated area and will be given to SPCB authorized recyclers & re-processors.

2. Used Batteries

Used batteries will be given back to the supplier under buy back agreement with supplier.

f 10^{th} February 2021				
(Hindi) "THE PIONEER", (English) "HINDUSTHAN"				
15 th March 2021				
Public Hearing has been conducted at Gym Khana Club Ranchi				
road, Ramgarh, Ramgarh Tehsil & District, Jharkhand.				
Additional District Magistrate				
Employment Local people				
• Skill development training program.				
• Proper utilization of CSR fund				
Pollution Control Measures				
• Water sprinkling on haul roads				

24.8.14 Public Consultation

Action plan as per MoEF&CC O.M. dated 30/09/2020

- As per the Normal calculation CER budget will be Rs.0.893 Crores
- Considering the location of the plant in severely Polluted area CER budget will be 1.5 times of the normal calculated amount i.e. Rs. 1.34 Crores
- M/s. BFCL (Ferro Alloy unit) is also proposing to adopt the Marar Village as a part of Social infrastructure development and has earmarked Rs. 1.34 Crores for Social & Infrastructure developmental activities based on Social Impact Assessment (SIA) after completion of Public Hearing

S.NO.	MAJOR ACTIVIT	YEAR O	F IMPLEME	TOTAL		
			1 st Year	2 nd Year	3 rd Year	EXPENDITURE
			(Rs. in	(Rs. in	(Rs. in	(Rs. in Lakhs)
			Lakhs)	Lakhs)	Lakhs)	
A). Bas	sed on SIA Study					
	Community & Infras	tructure				
1	Development Program	mmes				
	i) Construction of	Physical	1 no. in	1no. in	1 no. in	10
	public toilets	Nos. &	Marar (v)	Phulsarai(v)	Manuan(v)	
		village			& 1 Nos. in	
					Digwar(v)	
		Budget in	2.5	2.5	5	
		Lakhs				
	ii) Providing LED	Physical	2 nos. in	2nos. in	2 nos. in	3
	Street lighting with	Nos. &	Hathimara	Manuan (v)	Digwar (v)	
	solar panels	village	(v) & 3	&	3 nos.	

S.NO.	MAJOR ACTIVIT	Y HEADS	YEAR O	TOTAL		
			1 st Year	2 nd Year	3 rd Year	EXPENDITURE
			(Rs. in	(Rs. in	(Rs. in	(Rs. in Lakhs)
			Lakhs)	Lakhs)	Lakhs)	
			Nos. in	3 Nos. in	Pochra (v)	
			Marar (v)	Phulsarai		
				(v)		
		Budget in	1	1	1	
		Lakhs				
	iii) Mineral water	Physical	1 nos. in	1 nos. in	1no. in	9
	plants	Nos. &	Marar (v)	Phulsarai	Manuan (v)	
		village		(v)		
		Budget in	3	3	3	
		Lakhs				
	iii) Village road	Physical	1 nos. in			7
	repair &	Nos. &	Marar (v)			
	maintenance	village				
		Budget in	7			
		Lakhs				
					Total	29
2	Education					
	i) Providing Sport	Physical	5 nos. in	5 no. in	10 nos. in	5
	kits for schools	Nos. &	Kanjgi (v)	Manuan (v)	Phulsarai(v)	
		village	& 10 Nos.	& 10 Nos.	&	
			in Marar	in Digwar	10 Nos. in	
			(v)	(v)	Painki (v)	
		Budget in	1.5	1.5	2	
		Lakhs				
	ii) Construction of	Physical	2 nos. in	2 nos. in	2 nos. in	15
	class rooms in	Nos. &	Kanjgi (v)	Seota (V)	Marar (V)	
	schools of size 8m x	village				
	5m x3 m	Budget Rs	5	5	5	
		in Lakhs				
	iii)Providing Model	Physical		Digwar (v)	Painki (v) -	20
	Anganwadi Centre in	Nos. &		– 1 No.	1 No.	
	consultation with	village				
	State Women and					
	Child Development					
	Department					
		Budget Rs		10	10	
		in Lakhs				
					Total	40
3	RWH pits in the	Physical	Marar (v)	Seota (v)		20
	surrounding villages	Nos. &	pond	pond		
	& De-siltation of	village	desiltation	desiltation		

S.NO.	MAJOR ACTIVIT	YEAR O	TOTAL					
			1 st Year	2 nd Year	3 rd Year	EXPENDITURE		
			(Rs. in	(Rs. in	(Rs. in	(Rs. in Lakhs)		
			Lakhs)	Lakhs)	Lakhs)			
	ponds		1.5m	1.5m depth				
			depth					
		Budget in	10	10				
		Lakhs						
					TOTAL	89		
					(A)			
B). Bas	sed on Public Consulta	tion/Hearing						
1	Impart training to the	Physical	One DISH	A centre in Ra	mgarh Town	45		
	local villagers for	Nos. &						
	skill development.	village						
	a)DISHA Centre"	Budget in	15	15	15			
	along with necessary	Lakhs	10	10	10			
	infrastructure for	Luinis						
	various vocational							
	training program for							
	employment							
	generation in							
	association with							
	National Skill							
	Development							
	Mission (Automobile							
	Repair, Welding,							
	Electrical, Computer							
	Hardware, Soft skills							
	like computer							
	programs etc.)							
					Total (B)	45		
		TOTAL	45	48	41			
				Grand	Total (A+B)	134		
Recurr	Recurring expenditures under CSR as per companies Act 2014							

 Health checkup will be carried out periodically in surrounding villages i.e. Marar, Phulsarai, Hathimara villages @ Rs 5.0 Lakhs every year.

Management Compliance to Issues Raised during Public Hearing

S.No.	Issue raised		Management Response	Time	Budgetary
				schedule	allocation
1.	Employment f people	for local	The proposed expansion project will generate direct employment to 750 nos. which includes skilled, semi-skilled & unskilled.		

S.No.	Issue raised	Management Response	Time	Budgetary
			schedule	allocation
		Local people will be given top priority in		
		employment based on their qualification &	2023-24	Rs.0.15 Cr
		experience.	2024-25	Rs.0.15 Cr
			2025-26	Rs.0.15 Cr
		Skill development training program will be		Total Rs. 0.45
		conducted.		Cr
2.	Proper utilization of CSR	M/s. BFCL (Ferro Alloy unit) is also	2023-24	Rs.0.45 Cr
	fund	proposing to adopt the following Marar	2024-25	Rs.0.48 Cr
		Village as a part of Social welfare	2025-26	Rs.0.41 Cr
		development and has earmarked Rs. 1.34		Total
		Crores for Social & Infrastructure		Rs. 1.34 Cr
		developmental activities based on Social		for Social &
		Impact Assessment (SIA).		Infrastructure
				developmental
				activities
3.	Pollution Control	• In the existing plant Emission control	2023-24	Budget of Rs.
	Measures	systems such as 4 th Hole Fume	2024-25	4.5 Crores is
		Extraction system with bagfilters have	2025-26	earmarked for
		been provide to SEAFs and dust		Environment
		suppression system at unloading areas.		Protection
		• The flue gas emissions are within the		Measures
		stipulated norms.		
		• Pucca internal roads has been laid in the		
		plant area.		
		• CEMS data shows the emissions are		
		within the stipulated norms. Zero liquid		
		discharge is followed. All solid wastes		
		are utilized/disposed as per permitted		
		procedures.		
		• Greenbelt development in the existing		
		plant helps in further mitigation of		
		impacts due to the plant operations.		
		• SPCB has issued CTO for the plant		
		which is valid till 31/12/2025.		
		Hence there is no adverse impact on health		
		of people due to existing plant operations.		
		_		
		In the proposed expansion project following		
		environment protection measures will be		
		provided for duly complying with norms		
		stipulated by MOEF&CC / CECB:		
		• 4th Hole Fume Extraction system with		
		bagfilters will be provided to proposed		
		SEAF to bring down the particulate		
		emission to less than 30 mg/Nm ³ .		

S.No.	Issue raised	Management Response	Time	Budgetary
			schedule	allocation
		• Net resultant Ground level concentrations during operation of the plant after superimposing the incremental concentrations over the maximum baseline concentrations are well within the National Ambient Air Quality Standards.		
		• As the Plant is situated in Severely Polluted area (SPA) it is proposed to develop 40% of Greenbelt. in an extent of 1.17 Ha. (2.9 Acres) by October 2023.		
		• To meet the requirement of 40% greenbelt development it is proposed to acquire additional land outside the existing plant.		
		• Effluent will be treated in ETP consisting of RO plant also and after ensuring compliance with the norms, it will be utilised for dust suppression, ash conditioning and for greenbelt development within the premises.		
		 No effluent will be discharged outside the premises. 		
4	Water enrinkling on head	Zero inquid discharge will be followed.		Poourring cost
4.	roads	has been provided in the plant for regular		of Rs 5 0
	10005	water sprinkling on Roads.		Lakhs/annum

24.8.15 The capital cost of the expansion project is Rs. 89.3 Crores and the capital cost for environmental protection measures is proposed as Rs. 4.5Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs. 0.72 Crores. The employment generation from the proposed existing &expansion project is 750 direct &200 Indirect. The details of cost for environmental protection measures is as follows:

S.	Particulars	Capital Cost	Recurring Cost /
No		(Rs.in	Annum (Rs.in
		Crores)	Lakhs)
1	Air Emission Management		
	• 4 th Hole FES with bag filters & Stacks	2.00	20
	• other APCS & Conveyor systems	0.50	5
	· for Water Sprinkling	0.10	0.5

S.	Particulars	Capital Cost	Recurring Cost /
No		(Rs.in	Annum (Rs.in
		Crores)	Lakhs)
2	Wastewater Management		
	· for STP	0.40	10
	· for Garland drains	0.03	1
	· for Settling ponds	0.02	0.2
3	Solid waste Management		
	· Slag Handling & Disposal	0.20	5.0
4	Greenbelt development	0.10	2.0
6	Noise Management	0.10	1.5
7	RWH in Plant	0.10	0.2
8	Fire Safety Systems	0.50	5.0
9	Environmental Monitoring		4.1
	· CEMS	0.20	3.0
10	Occupational Health & Safety		
	· Occupational Health centre with	0.15	4.5
	Ambulance		
	• Personal Protective Equipment's (PPEs)	0.10	10
	TOTAL	4.50	72.0

24.8.16 Total land after proposed expansion will be 2.91 Ha. (7.18 Acres). As the Plant is situated in Severely Polluted area (SPA) it is proposed to develop 40% of Greenbelt as part of the expansion i.e. in an extent of 1.17 Ha. (2.9 Acres).

- Additional safeguards such as 40% green belt within the plant premises & outside the plant premises over an extent of 1.17 Ha. (2.9 Acres).
- Total 3000 nos. of plants will be developed over an extent of 1.17 Ha. (2.9 Acres).
- The total Greenbelt area proposed within the Plant premises is 1.515 Acres (0.61 Ha.) which is inclusive of existing Greenbelt.
- To meet the requirement of 40% greenbelt development it is proposed to acquire additional land outside the existing plant.

24.8.17 Summary of Violation under EIA Notification, 2006:

- The company has started installation of the 5th Submerged Arc Furnace of 1x9 MVA & CLU converter without completing the process of Environment Clearance because of the following reasons (Reasons for violation).
- Due to COVID restrictions and social lockdown wherein all the physical activities were restricted, PP could not move ahead with the study, interaction with officials and accordingly could not complete the process of EC due to delay from their end.
- PP also gave a completion date of 31st Dec 2021 for its 5th furnace project to its consortium of banks.
- If the completion date is exceeded by a period of 6 months, the loan account would have slipped into a NPA (Non-Performing Asset) category.
- This situation would have led to bankruptcy of the company as well.

• Thus, to avoid such situation, installation of the 5th furnace was completed along with CLU converter (70% work completed).

Present status of 5th Submerged Electric Arc Furnace & CLU converter:

- Installation of 5th Submerged Electric Arc Furnace (SEAF) of 9 MVA capacity has been completed.
- Production is not yet started in 5th SEAF
- Regarding installation of CLU converter, 70% of civil work, plant & machinery has been completed.

Accordingly TOR amendment has been obtained under violation category from the Ministry vide letter dated 19.12.2022. Now application has been submitted for EC appraisal under violation category.

Budget of remediation plan and natural and community resource augmentation plan corresponding to the ecological damage is shown below

- JSPCB has initiated action against violation.
- Application submitted for EC under violation and accordingly JSPCB has filed a case in the Hon'ble Magistrate court of Ramgarh vide no complainant case/ 117/2023 vide dated 07-01-2023
- The remediation plan and the natural and community resource augmentation plan has been prepared as an independent chapter (13) in the EIA report.

Sr.	Environmental component	Activities Proposed	Budge	etary prov	vision	Total
No.			1 st Year	2nd	3rd	(in Rs.)
				Year	Year	
1.	Air Environment	• Dust Suppression and	65,000	55,000	46,500	1,66,500
	a) Ambient Air	water sprinkling.				
	b) Air Pollution	• Provision of				
		Barricates				
2	Noise Environment	Supply of personnel	1,00,000	80,000	60,000	2,40,000
		projective equipments				
3	Water Environment	• STP and ETP	50,00,000			50,00,000
		• Rain water harvesting				
		structure				
4	Land Environment	Leachate proof storage	20,000	20,000	20,000	60,000
		facility for productive				
		soil and waste material				
5	Ecology	Plantation in and around	10,00,000			10,00,000
		plant site				
		Provision made in EMP				
		for Rs. 10 lakhs				
6	Solid and hazardous waste	Provision of coloured	25,000	25,000	20,000	70,000

Remediation Plan and Budgetary Provisions for 3 years

Sr.	Environmental component	Activities Proposed	Budgetary provision		Total			
No.			1 st Year	2nd	3rd	(in Rs.)		
				Year	Year			
		bins						
		• Provision of storage						
		facility						
7	Socio-economic	First aid kit and health	20,000	10,000	5,000	35,000		
	(occupational health)	check up						
8	Energy consumption	Construction of Solar	1,00,000	1,00,000	50,000	2,50,000		
		panels						
		TOTAL	63,30,000	2,90,000	2,01,500	68,21,500		
Rs. 6 greer	Rs. 68,21,500 (out of which 50 lakhs provision for STP, ETP, RWH and plantation and 10 Lakhs for greenbelt in and around plant site)							

NET AMOUNT: Rs. 8,21,500

		Voorwiso	Implementer	tion and	Total
Sr No	A stivities Proposed	1 cal wise	Total Cost (Ba)		
SI. INU.	Activities r roposed	Buugeta	ry provision	III KS.	
		1 st Year	2 nd Year	^{3^{ru}} Year	
1.	Development of Greenery in the	50,000	25,000	25,000	1,00,000
	surrounding area and road side				
	plantation (along the state highway				
	abutting the project side (100 trees				
	in the surrounding area and 100 trees				
	roadside Total 200 with maintenance				
	@ 500/- per tree, total cost Rs.				
	1,00,000/-)				
2	Provision of drinking water facilities	30,000	30,000	30,000	90,000
	through hand pumps/ dugwells/				
	tubewells (hand pump/ well per year				
	in the nearby villages each year with				
	maintenance) i.e. two tubewells per				
	village in 3 villages				
3	Repair and maintenance of roads in	40,000	40,000	40,000	1,20,000
	the nearby 6 villages with the help of			·	
	gram panchayat considering 2				
	villages each year				
	TOTAL	1,20,000	95,000	95,000	3.10.000

Natural Resources Augmentation Plan

Community Augmentation Plan

Sr.	Activities Proposed	Year wise Implementation and	Total cost
No.		Budgetary provision in Rs.	(Rs.)

		1st Year	2nd Year	3rd Year	
1.	Development of sanitation	2,00,000	2,00,000	2,00,000	6,00,000
	facilities in (provision of 2				
	toilets in each village)				
2	Medical check-up camp in	1,00,000	1,00,000	1,00,000	3,00,000
	nearby areas for villages and				
	supply of medicines (2 villages				
	per year)				
3	Assistance in providing study	50,000	50,000	50,000	1,50,000
	materials, uniforms, books to				
	the poor students (50 students)				
	each year				
	TOTAL	3,50,000	3,50,000	3,50,000	10,50,000

Summary of Remediation plan, Natural Resource and Community Augmentation Plan

Sr. No.	Activity Proposed	Total(Rs.)
1	Cost of damage / Remediation plan	Rs. 8,21,500
		(excluding provisions of EMP cost of
		Rs.60 lakhs)
2	Natural Resource AugmentationPlan	Rs.3,10,000/-
3	Community Augmentation Plan	Rs.10,50,000/-
	Total	Rs.21,81,500/-

Detail of Court Cases: Application submitted for EC under violation and accordingly JSPCB has filed a case in the Hon'ble Magistrate court of Ramgarh vide no complainant case/ 117/2023 vide dated 07-01-2023.

Deliberation on Severely Polluted area (SPA)

24.8.18 Since the project falls in the Ramgarh district of Jharkhand declared as Severely Polluted area (SPA), PP shall comply with all the conditions applicable to CEPI as per the submitted compliance as follows:

Environment	Stipulation of Conditions	Compliance of Mitigation measures
Air	i. Stack emission levels should be	The company is maintaining the limit of
	stringent than existing standards in	particulate matter emission below prescribed
	terms of the identified critical	standard.
	pollutants.	We assure that the Particulate Emission at
		the Chimney Outlet will be maintained less
		than 30 mg/Nm ³ .
	ii. CEMS may be installed in all	CEMS installed in stack of all Units and
	large/medium red category	connected with SPCB/CPCB Server.
	industries (air polluting) and	
	connected to SPCB and CPCB	
	server.	
	iii. Effective fugitive emission	Transportation of raw materials/ solid wastes

Environment	Stipulation of Conditions	Compliance of Mitigation measures
	control measures should be imposed	is ensured through covered trucks only.
	in the process, transportation,	Regular Water Sprinkling is being done
	packing etc.	using Water Tankers. Major raw material is
		kept in closed shed
		Conveyor belts are used where ever required.
		All vehicle movements roads within all
		premises are pucca and regular road
		sweeping is being carried through road
		sweeping machine.
	iv. Transportation of materials by	Major raw material transportation will be by
	rail/conveyor belt, wherever feasible	rail upto the nearest railway station and from
		there by road in tarpaulin covered truck.
		Hence road transport is minimised
	v. Encourage use of cleaner fuels	Coke is used instead of Pet Coke
	(pet coke/furnace oil/LSHS may be	
	avoided).	
	vi. Best available Technology may	Ferro alloys will be manufactured through
	be used. For example, usage of	Submerged Electric Arc Furnace.
	EAF/SAF/IF in Cupola furnace.	
	Usage of supercritical technology in	
	place of sub-critical technology.	
Air	vii. Increase of greenbelt cover by	• 40% green belt is proposed to developed
	40% of the total land area beyond the	within the plant premises & outside the
	permissible requirement of 55%,	plant premises over an extent of 1.17 Ha.
	wherever reasible.	(2.9 Acres)
		be 2.91 Ha. (7.18 Acres).
		• As the Plant is situated in Severely
		Polluted area (SPA) it is proposed to
		develop 40% of Greenbelt as part of the
		expansion i.e. in an extent of 1.17 Ha.
		<u>(2.9 Acres).</u>
		• The total Greenbelt area within the
		Plant premises is 1.515 Acres (0.61 Ha.).
		• To meet the requirement of 40%
		greenben ueveropment it is proposed to
		plant.
		• The details of additional land where
		greenbelt can be developed outside the
		premises is as follows
		✤ Plot No. 1364P (E1) - 0.504 Acre
		(2039.6 SQM)

Environment	Stipulation of Conditions	Compliance of Mitigation measures
		✤ Plot No. 1405 (C18) - 0.339 Acre
		(1373.05 SQM)
		 ✤ Plot No. 1364P (C2&C3) - 0.025 Ac.
		(103.1238 SQM)
		◆ Plot No. 1405P (20C) - 0.517 Ac.
		(2093.65 SQM)
		Hence the total greenbelt will be 2.9
		Acres [1.515 Ac (Plant Premises) +
		1.385 Ac (outside plant premises) which
		amounts to 40 % of total land].
	viii. Stipulation of greenbelt outside	Avenue plantation/road side has been carried
	the project premises such as avenue	out.
	plantation, plantation in vacant areas,	
	social forestry, etc.	
	1x. Assessment of carrying of	Site is adjacent to Ramgarh City Road & NH
	the industrial graning if the reade	# 20 (Ranchi - Hazaribagh) is at a distance of 7.0 Km s
	required to be wideped shall be	7.0 KIIIS.
	required to be widehed, shall be	will be 50 trucks (day or transporting row
	presented as a condition.	materials products and wastes
		Existing road is canable of taking the
		additional vehicular traffic due to the
		proposed expansion
WATER	Stipulation of conditions such as:	Noted for compliance
WITER	i Reuse /recycle of treated	Noted for compliance.
	wastewater, wherever feasible.	Treated wastewater is being used for make-up
	,	of cooling purpose as maximum as possible.
	ii. Continuous monitoring of	Not applicable as it is only Ferro Alloy plant
	effluent quality/quantity in large and	
	medium red category industries	
	(water polluting).	
	iii. A detailed water harvesting plan	Permission obtained from CGWA of 35 KLD
	may be submitted by the project	for domestic use.
	proponent	
		The potential rain water that can be recharged
		/ utilized to meet the plant water requirement
		is 16,500 m3 / year. Accordingly, the net
		water requirement will reduce.
		In the existing plant also rain water harvesting
		structure has been constructed. Now as part of
		expansion It is proposed to construct 2 nos. of
		Recharge structure as per design and all the
		Roof water inlet join to Recharge well so that
		Roof top water & surface run off storm water

Environment	Stipulation of Conditions	Compliance of Mitigation measures		
		recharge into ground.		
	iv. Zero liquid discharge	ZLD maintained.		
	wherever techno-economically			
	feasible.			
	v. In case, domestic waste water	30 KLD of STP will be installed and treated		
	generation is more than 10 KLD, the	water will be used for greenbelt development.		
	industry may install STP			
Land	i. Increase of green belt cover by	40 % of the land area will be covered with		
	40% of the total land area beyond	green belt.		
	the permissible requirement of 33%,			
	wherever, feasible for new projects.			
	ii. Stipulation of greenbelt outside	Avenue plantation/road side plantation has		
	the project premises such as avenue	been carried out.		
	plantation in vacant areas, social			
	forestry, etc.			
	iii. Dumping of waste (fly ash, slag,	Not applicable as it is a Ferro Alloy plant		
	red mud, etc.) may be permitted			
	only at designated locations			
	approved by SPCBs/PCCs.			
	iv. More stringent norms for	The unit is followed the guidelines of		
	management of hazardous waste	Hazardous and other wastes (Management		
	generated should be preferably	and Transboundary Movement) rules, 2016.		
	utilized in co-processing.			
Other	i. Monitoring of compliance of EC	Being Done		
Condition	conditions may be submitted with			
(Additional)	third party audit every year.			
	ii. The % of the CER may be at least	Noted for compliance.		
	1.5 times the slabs given in the OM			
	dated 01.05.2018 for SPA and 2			
	times for CPA in case of			
	Environmental Clearance.			

Certified Compliance Report from IRO, MoEF&CC

24.8.19 The Status of compliance of earlier EC was obtained from Integrated Regional Office,Ranchi vide letter no. 103-325/11/EPE/98, dated 11-02-2022 in the name of M/s. BIHAR FOUNDARY & CASTINGS LIMITED, Ferro Alloys Unit. The Action taken report regarding the partially/non-complied condition has been submitted to IRO, MoEF&CC vide dated 15-11-2022. MoEF&CC (IRO), Ranchi evaluated the same and has issued letter no. 103-325/11/EPE/742 dated 01.12.2022. The details of the observations made by IRO in the report dated 01.12.2022 along with its re-assessment / present status as furnished by the PP is given as below:

Non- compliances	Corrective action taken	Present status
reported		
i) Greenbelt has not been	PP has acquired additional land adjacent	PP has submitted an
developed as per the CPCB	to the existing plant for greenbelt	undertaking to the IRO
norms	development. PP assures that they will	that they would
	comply 40% of greenbelt area by Next	develop green belt by
	monsoon i.e. October 2023. IRO has also	October 2023.
	mentioned in his report that they have	
	developed plantation all along the	
	boundary of the industry and due to	
	constraints of space within the plant, PP	
	has acquired additional land, outside the	
	plant measuring around 1.1 Acre over	
	which it is proposed to raise plantation.	
ii) The Prescribed method	Presently, Plant is under construction and	PP has submitted
for collection and	here PP do assure that, they will provide	undertaking to IRO for
treatment of runoff rain	Collection and Treatment of runoff of	the same.
water from the Raw	rainwater from the Raw material storage	
material storage area has	area by April 2023.	
not been followed		

Deliberations by the Committee

- 24.8.20 The Committee noted the following:
 - The instant proposal is for Modification cum Expansion of Ferro Alloy Plant of existing 2x5 MVA SEAF's to 2x6 MVA SEAF, Modification of existing 1x7.5 MVA SEAF to 1x9 MVA SEAF, Existing 1x9.0 MVA SEAF, New 1x9 MVA SEAF & New 12MT per batch CLU Converter for refining liquid HC FeMn to MC/LC FeMn.
 - 2. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.
 - 3. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.
 - 4. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.

- 5. The existing project was accorded environmental clearance vide F. No. J-11011/384/2010-IA (II) (I) dated 31.10.2011. Consent to Operate for the existing unit was accorded by JSPCB vide no. JSPCB/HO/RNC/CTO-4412165/2020/1819 dated 10.11.2020 (which is in the name of GAUTAM FERRO ALLOYS (UNIT OF BFCL) which is valid upto 31-12-2025. Subsequently name of the plant in CTO has been changed to Bihar Foundries & Castings Limited vide order dated 23.01.2023 and is valid till 31.12.2025.
- 6. The EAC noted the following chronology w.r.t. instant Modification cum Expansion proposal
 - M/s. Bihar Foundry & Casting Limited had initially obtained ToR vide letter dated 24.11.2020 for expansion of the existing unit for manufacturing of Ferro Alloys SiMn / FeMn based on Sub Merged Arc (SAF) technology.
 - Post compliance of ToR, PP applied for EC vide proposal no. IA/JH/IND/223909/2020 dated 23/08/2021 wherein the EAC in its 44th meeting held on 13 – 14th September, 2021 recommended to return the proposal in its present form due to shortcomings.
 - The project proponent then applied for fresh ToR vide proposal No. IA/JH/IND1/400084/2022 dated 21.10.2022 and decided to come before the committee for appraisal of proposal under violation category as per the provisions contained in the MoEF&CC Standard Operating Procedures dated 07.07.2021 pertaining to consideration of violation cases as PP has reported that they have constructed 5th Furnace i.e. New 1x9 MVA SAF & CLU converter is under construction without prior environmental clearance.
 - The EAC noted that it is a fit case of violation and to be apprised based on the provisions of the SOP dated 07.07.2021 [Violation Cases].
 - The EAC also took into consideration the request of PP submitted through written representation vide letter dated 03.11.2022 for appraisal of the proposal dated 21.10.2022 as modification/ amendment in TOR granted vide letter No. J-11011/384/2010-IAII(I) dated 24.11.2020 under violation category instead of issuance of fresh TOR.
 - After deliberations, the Committee recommended the project proposal for modification in TOR letter No. J-11011/384/2010-IAII(I) dated 24.11.2020 w.r.t. appraisal of proposal under violation category as per the provisions contained in the MoEF&CC Standard Operating Procedures dated 07/07/2021 pertaining to consideration of violation cases with stipulation of additional specific conditions. Accordingly, TOR Amendment was granted by MoEF&CC vide letter dated 19.12.2022.
- 7. The EAC further noted the following w.r.t. violation:
 - The company has started installation of the 5th Submerged Arc Furnace of 1x9 MVA & CLU converter without completing the process of Environment Clearance because of the following reasons (Reasons for violation).
 - Due to COVID restrictions and social lockdown wherein all the physical activities were restricted, PP could not move ahead with the study, interaction with officials and accordingly could not complete the process of EC due to delay from their end.

- PP also gave a completion date of 31st Dec 2021 for its 5th furnace project to its consortium of banks.
- If the completion date is exceeded by a period of 6 months, the loan account would have slipped into a NPA (Non-Performing Asset) category.
- This situation would have led to bankruptcy of the company as well.
- Thus, to avoid such situation, installation of the 5th furnace was completed along with CLU converter (70% work completed).
- The company has prepared a Natural and Community Resource Augmentation plan for an amount of Rs. 21,81,500/- [Cost of damage / Remediation – Rs. 8,21,500/-, Natural Resource AugmentationPlan - Rs.3,10,000/- and Community Augmentation Plan - Rs.10,50,000/-]
- Application submitted for EC under violation and accordingly JSPCB has filed a case in the Hon'ble Magistrate court of Ramgarh vide no complainant case/ 117/2023 vide dated 07-01-2023.
- 8. The EAC deliberated on the Natural and Community Resource Augmentation plan and found it satisfactory.
- 9. JSPCB has filed a case in the Hon'ble Magistrate court of Ramgarh vide no complainant case/ 117/2023 vide dated 07-01-2023 to initiate credible action against M M/s. Bihar Foundry & Casting Limited for the offence committed u/s 19 of Environment (Protection) Act, 1986. This is filed as per provisions of the SOP dated 07.07.2021.
- The EAC observed that the project falls in the Ramgarh district of Jharkhand. Ramgarh is declared as Severely Polluted area (SPA) with CEPI index 65.11 by CPCB vide No. B29012/ESS(CPA)/2015-16/ dated 26th April 2016. The EAC advised PP to comply with all the conditions applicable to CEPI.
- 11. Total project land is 2.91 ha (7.18 Acres) which is taken on lease from Jharkhand Industrial Area Development Authority (JIADA) for a period of 30 years. Existing plant land is Industrial land. The proposed expansion will be taken up in the existing plant premises only. Additional land of 1.385 Ac. (0.56 Ha.) has been acquired for development of Greenbelt to comply with 40% of 2.91 Ha. (7.18 Acres) as the plant is situated in Ramgarh industrial area which is Severely Polluted Area.
- 12. The nearest human settlement from the project site is Palamu Colony (0.4 km, NE) and Marar (0.8 km, N).
- 13. Damodar River (1.4 Km, S), Raura Nala (2.5 km, E), Meramgarh Nala (5.4 Km, E), Unnamed stream (0.5 Km, W), Ramgarh Village pond (4.0 Km, S) and Seota village Pond (1.5 Km, NE) exists within the study area of 10 km from the project site. The EAC is of the opinion that water bodies shall not be disturbed. Mitigation measures w.r.t. safeguarding the water bodies shall be implemented.
- 14. The water requirement for the proposed expansion project is estimated as 148 m³/day, which will be sourced from Damodar river.
- 15. As the Plant is situated in Severely Polluted area (SPA) it is proposed to develop 40% of Greenbelt as part of the expansion i.e. in an extent of 1.17 Ha. (2.9 Acres). Total 3000 nos. of plants will be developed over an extent of 1.17 Ha. (2.9 Acres). The total Greenbelt area proposed within the Plant premises will be 1.515 Acres (0.61 Ha.) which is inclusive of existing. Greenbelt The EAC deliberated on the greenbelt action plan and found it satisfactory.

- 16. The Committee has found that the baseline data and incremental GLC due to the proposed project within NAAQ standards.
- 17. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
- 18. The Committee also deliberated on the public hearing issues along with revised action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.
- 19. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.
- 20. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

Recommendations of the Committee:

24.8.21 In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal for grant of Environment Clearance under the provisions of EIA Notification, 2006 and SOP dated 07.07.2021 and subject to the stipulation of following specific conditions and general conditions;

A. Specific Conditions:

- ii. The PP needs to comply all the points of TOR for Violation Project and follow SOP dated 07.07.2021 issued by the Ministry of Environment, Forest & Climate Change, for identification & handling of Violation cases under EIA notification 2006.
- iii. The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- iv. The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
- v. The total amount of Rs. 21.815 Lakhs shall be spent on Remediation plan and Natural Resource Augmentation Plan and Community Resource Augmentation Plan which

shall be implemented in a period of 3 years as per the action plan details given in EIA Report and summarized below.

Sr.	Environmental component	Activities Proposed	Budge	etary prov	vision	Total
No.			1 st Year	2nd	3rd	(in Rs.)
				Year	Year	
1.	Air Environnent a) Ambient Air b) Air Pollution	 Dust Suppression and water sprinkling. Provision of 	65,000	55,000	46,500	1,66,500
		Barricates				
2	Noise Environnent	Supply of personnel projective equipments	1,00,000	80,000	60,000	2,40,000
3	Water Environnent	STP and ETPRain water harvesting structure	50,00,000			50,00,000
4	Land Environnent	Leachate proof storage facility for productive soil and waste material	20,000	20,000	20,000	60,000
5	Ecology	Plantation in and around plant site Provision made in EMP for Rs. 10 lakhs	10,00,000			10,00,000
6	Solid and hazardous waste	 Provision of coloured bins Provision of storage facility 	25,000	25,000	20,000	70,000
7	Socio-economic (occupational health)	First aid kit and health check up	20,000	10,000	5,000	35,000
8	Energy consumption	Construction of Solar panels	1,00,000	1,00,000	50,000	2,50,000
		TOTAL	63,30,000	2,90,000	2,01,500	68,21,500
Rs. 6	8,21,500 (out of which 50 lakhs	provision for STP, ETP, I	RWH and p	olantation	and 10 L	akhs for
green	belt in and around plant site)	: NET AMOUNT: Rs. 8,21	,500			

A.	Remediation	Plan a	and I	Budgetary	Provisions	for	3	years
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B. Natural Resources Augmentation Plan

		Yearwise Implementation and			Total
Sr. No.	Activities Proposed	Budgeta	Budgetary provision in Rs.		
		1 st Year 2 nd Year 3 rd Year			
1.	Development of Greenery in the	50,000	25,000	25,000	1,00,000
	surrounding area and road side				
	plantation (along the state highway				
	abutting the project side (100 trees				
	in the surrounding area and 100 trees				

		Yearwise	Total		
Sr. No.	Activities Proposed	Budgeta	ary provision	in Rs.	Cost (Rs.)
		1 st Year	2 nd Year	3 rd Year	
	roadside Total 200 with maintenance				
	@ 500/- per tree, total cost Rs.				
	1,00,000/-)				
2	Provision of drinking water facilities	30,000	30,000	30,000	90,000
	through hand pumps/ dugwells/				
	tubewells (hand pump/ well per year				
	in the nearby villages each year with				
	maintenance) i.e. two tubewells per				
	village in 3 villages				
3	Repair and maintenance of roads in	40,000	40,000	40,000	1,20,000
	the nearby 6 villages with the help of				
	gram panchayat considering 2				
	villages each year				
	TOTAL	1,20,000	95,000	95,000	3,10,000

C. Community Augmentation Plan

Sr.	Activities Proposed	Year wis	se Implementa	tion and	Total cost
No.		Budge	tary provision	in Rs.	(Rs.)
		1st Year	2nd Year	3rd Year	
1.	Development of sanitation facilities in (provision of 2 toilets in each village)	2,00,000	2,00,000	2,00,000	6,00,000
2	Medical check-up camp in nearby areas for villages and supply of medicines (2 villages per year)	1,00,000	1,00,000	1,00,000	3,00,000
3	Assistance in providing study materials, uniforms, books to the poor students (50 students) each year	50,000	50,000	50,000	1,50,000
	TOTAL	3,50,000	3,50,000	3,50,000	10,50,000

Total: Summary of Remediation plan, Natural Resource and Community Augmentation <u>Plan</u>

Sr. No.	Activity Proposed	Total (Rs.)
1	Cost of damage / Remediation plan	Rs. 8,21,500
		(excluding provisions of EMP cost of Rs.60
		lakhs)
2	Natural Resource AugmentationPlan	Rs.3,10,000/-
3	Community Augmentation Plan	Rs.10,50,000/-
	Total	Rs. 21,81,500/-

- vi. The project proponent shall submit a bank guarantee of an amount of Rs. 21.815 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan with the CPCB prior to the grant of environmental clearance (EC) as per SOP 07.07.2021.
- vii. Project proponent shall ensure that the plan shall be completed in three years whereas the bank guarantee shall be for five years. The bank guarantee shall be released by the CPCB after successful implementation of Remediation plan, Natural Resource Augmentation Plan and Community Resource Augmentation plan.
- viii. Project proponent has to submit Rs. 89.296 Lakhs towards penalty provisions as per SOP dated 07.07.2021 to the SPCB prior to the grant of EC as penalty for the violation activity in addition to Damage Assessment cost. The cost of Penalty as per MoEF&CC's OM dated 07.07.2021 is detailed as below:

Κ.	S	Dortionlorg	Value (Rs.	1% Penalty Cost
i	i	Faruculars	In Lakhs)	(Rs. In Lakhs)
	n	Cost of the construction of SAF	1817.80	18.178
	с	Cost of the construction of CLU	7111.00	71 119
	e	convertor	/111.80	/1.118
		Total Cost of Penalty		89.296
	t			

he project falls in the Ramgarh district of Jharkhand declared as Severely Polluted area (SPA), PP shall comply with all the conditions applicable to CEPI as per the Ministry's OM. A Report has to be submitted to IRO, MoEFCC in this regard.

- x. The total water requirement is estimated as 148 m³/day, which shall be sourced from Damodar river. PP shall obtain necessary permission from the Competent Authority.
- xi. Following additional arrangements to control fugitive dust shall be provided:
 - a. Fog / Mist Sprinklers at all conveyors point and on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas.
 - b. Proper covered vehicle shall be used while transport of materials.
 - c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.
- xii. All internal road and connecting road from project site to main highway shall be developed and maintained with suitable Million Axle Standard (MSA) as per the traffic load due to existing and proposed project.
- xiii. Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the MoEF&CC.
- xiv. PP shall carry out periodically occupational health survey as per the applicable norms.
- xv. The 4th hole extraction system shall be provided in the Submerged Arc Furnaces.
- xvi. 100% of the slag generated through the process shall be utilised.
- xvii. No Ferro-chrome production shall be carried out without prior Environmental clearance from MOEF&CC.
- xviii. AOD (Argon Oxygen Decarburisation) Convertor shall have Secondary Fume extraction facility.
 - xix. The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall

be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.

- xx. The company shall also undertake rain water harvesting measures as per the plan submitted in the EIA/EMP report and reduce water dependence from the outside source.
- xxi. The nearest human settlement from the project site is Palamu Colony (0.4 km, NE) and Marar (0.8 km, N).
- xxii. Damodar River (1.4 Km, S), Raura Nala (2.5 km, E), Meramgarh Nala (5.4 Km, E), Unnamed stream (0.5 Km, W), Ramgarh Village pond (4.0 Km, S) and Seota village Pond (1.5 Km, NE) exists within the study area of 10 km from the project site. The EAC is of the opinion that water bodies shall not be disturbed. Mitigation measures w.r.t. safeguarding the water bodies shall be implemented.
- xxiii. As reported, PP shall adopt Marar Village and prepare and implement a robust plan to develop it into model villages in next 10 years.
- xxiv. Briquetting and Jigging plant shall be installed in Ferro Alloys Plant.
- xxv. A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
- xxvi. Three tier Green Belt shall be developed in at least 40% of the project area in a time frame of one year with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy alongwith windshield inside the plant premises to act as green barrier for air pollution & noise levels towards Palamu Colony (0.4 km, NE) and Marar (0.8 km, N). Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
- xxvii. Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.
- xxviii. Particulate matter emission from stacks shall be less than 30 mg/Nm³. Dry gas cleaning systems shall be provided by the project proponent to meet particulate matter emission norms of less than 30mg/Nm³ for the furnace flue gases.
 - xxix. The PP shall minimize the evaporation losses in jigging operation to less than 10% using suitable advanced process.
 - xxx. The PP shall install CO sensors at the furnace top level and the monitoring report shall be submitted to the IRO, MoEFCC in this regard.
 - xxxi. Action Plan for fire fighting system including provision for flame detectors, temperature actuated heat detectors with alarms, automatic sprinkler system, fixing the location of fire water tanks, separate power system for fire fighting, involvement of qualified and trained fire personnel, nearest fire station & time required to reach the proposed site shall be prepared and implemented.
- xxxii. The Piezometric wells shall be established in all directions surrounding the project area to monitor groundwater levels and determine aquifer parameters such as transmissibility, hydraulic conductivity, storage, to sample groundwater for chemical/ heavy metals/ toxic leachates and microbiological analysis.

- xxxiii. The PP shall adopt the best practices of House-keeping in the whole project area and specially whre the tailings are proposed to be stacked.
- xxxiv. All the commitments made to the public during the Public Hearing/Public Consultation shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
- xxxv. The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.
- xxxvi. The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.

B. General Conditions

I. Statutory compliance:

i. The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as two Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.

- iii. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
- iv. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- v. Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.
- vi. The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation.
- vii. The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.
- viii. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.

III. Water quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R 414 (E) dated 30th May 2008; G.S.R 277 (E) dated 31st March 2012 (applicable to IF/EAF); as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- iii. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- iv. The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time.
- v. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
- vi. Tyre washing facilities shall be provided at the entrance/exit of the plant gates.

IV. Noise monitoring and prevention

i. Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.

V. Energy Conservation measures

i. Energy conservation measures may be adopted such as adoption of solar energy and provision of LED lights etc., to minimize the energy consumption.

VI. Waste management

- i. Used refractories shall be recycled.
- ii. Kitchen waste shall be composted or converted to biogas for further use.

VII. Green Belt

- i. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.
- ii. Project proponent shall submit a study report on De-carbonization program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

IX. Environment Management

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
- The company shall have a well laid down environmental policy duly approve by the Board ii. of Directors. The environmental policy should prescribe for standard operating procedures proper checks and balances and to bring into focus to have anv infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- ii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.

X. Miscellaneous

i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of

which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.

- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
 - ix. The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information.
 - x. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
 - xi. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiv. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

 xv. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Re-Consideration of Environmental Clearance Proposal

Agenda No. 24.9

24.9 Installation of Induction Furnace & Rolling Mill for production of Ingots, Billets 5,00,000 TPA and TMT Bars & Long product: 5,00,000 TPA respectively (In addition to Existing 3,24,000 TPA Sponge Iron Plant, 0.216 MTPA Coal Washery & 25 MW Power Plant) of M/s Lloyds Metals and Energy Limited, located at Plot A-1 and A-2, MIDC Area, Ghugus, Chandrapur, Maharashtra – Consideration of Environmental Clearance.

[Proposal No.: IA/MH/IND1/404101/2022; and IA/MH/IND1/417900/2023 File No. IA-J-11011/243/2019-IA-II(IND-I)] [Consultant: Pollution and Ecology Control Services; Valid upto 10.04.2023]

- 24.9.1 M/s. Lloyds Metals & Energy Limited has made an online application vide proposal no. IA/MH/IND1/404101/2022 dated 19th December 2022 along with copy of EIA/EMP report, Forms (Part A, B and C) and certified compliance report seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at S. No. 3(a) Metallurgical industries (ferrous & non-ferrous) and 1(d) Thermal Power Plants under Category "A" of the schedule of the EIA Notification, 2006 and appraised at Central Level.
- 24.9.2 Name of the EIA consultant: M/s Pollution and Ecology Control Services, Nagpur [List of ACOs with their Certificate / Extension Letter no. QCI/NABET/ENV/ACO/23/2634; valid upto 10.04.2023, as on February 27, 2023].

Details submitted by Project proponent

24.9.3 The details of the ToR are furnished as below:

Date of Application	Consideration	Details	Date of Accord	Validity
24.06.2019	13 th Meeting of Re-	Terms of	10 th February	9 th February
	constituted EAC (Industry-1)	Reference	2020	2023
	held on 27 th to 29 th			

November, 2019		

- 24.9.4 The project of M/s Lloyds Metals & Energy Limited located in Plot No. A-1 and A-2, MIDC Area, Ghugus, Chandrapur, Maharashtra is for installation of Induction Furnace & Rolling Mill for production of Ingots, Billets 5,00,000 TPA and TMT Bars & Long product: 5,00,000 TPA (In addition to Existing 3, 24,000 TPA Sponge Iron Plant, 0.216MTPA OR 150 TPH Coal Washery & 25 MW Power Plant). Further, company has decided to drop the installation of the 2 X 9 MVA Submerged Arc Furnace permitted for production of 25,000 TPA Ferro alloys in the ToR dated 10.02.2020.
- 24.9.5 Environmental Site Settings:

S. No.	Particulars	Details submitted by the PP					Remai	:ks
i.	Total land	93.52 ha [M	IDC	Land]			Land	use:
		Total land is in possession					Industrial	
ii.	Land acquisition	Total land is in possession.						
	details as per	Additional 8.56 ha adjacent private land was						
	MoEF&CC O.M.	considered a	at tl	he time of	Τc	R. Now, the		
	dated 7/10/2014	proposed pr	ojec	t of Induct	ion	furnace and		
		rolling mill	will	be installed	in	existing plant		
		premises. No	o Ad	ditional land	1 is	required.		
iii.	Existence of	Project site:	No:	ne			No	R&R
	habitation &	Study Areas	<u>:</u>				involved.	
	involvement of	Habitation	l	Distance		Direction		
	R&R, if any.	Ghugus		0.5 Km		N		
iv.	Latitude and	Point	Lat	itude	L	ongitude	-	
	Longitude of all	А	19°.	56'30.56"N	79	9° 6'56.83"Е		
	corners of the	В	19°:	56'30.22"N	79	Э° 7'1.57 "Е		
	project site.	С	19°:	56'14.10"N	79	Э° 7'15.52"Е		
		D	19°:	55'28.81"N	79	Э° 7'20.75"Е		
		Е	19°.	55'13.75"N	79	9° 7'4.87"E		
		F	19°.	55'14.36"N	79	Э° 6'57.21"Е		
v.	Elevation of the	189 m above	e me	an sea level			-	
vi	Involvement of	No involven	nent	of Forest La	nd			
v1.	Forest land if any.		icin	of Porest La	inu			
vii.	Water body exists	Project site	: T	here are two	D Se	easonal drains	-	
	within the project	passing through project site						
	site as well as study	Study area						
	area	Water bod	ly	Distance		Direction		
		Anuradha		620 m	1	W		
		Lake						

		Wardha	2.5 Km	SW	
		River			
		Nirguda	3.0 Km	SSW	
		Nala			
		Penganga	5.0 Km	SE	
		River			
		Sarai Nala	6.5 Km	NE	
viii.	Existence of ESZ/	Nil.		·	
	ESA/ national park/				
	wildlife sanctuary/	List of Reserv	ed and protect	ted forests:	
	biosphere reserve/	Pardi Reserved	Forest, 6.0 Kn	n (SW)	
	tiger reserve/				
	elephant reserve etc.				
	if any within the				
	study area				
ix.	CPA/SPA	The Project s	ite is located	in Chandrapur	
		District which	was declare	d as Critically	
		Polluted Area	a vide NGT	order dated	
		10.07.2019 at	nd lifting of	abeyance of	
		Ministry's OM	is published o	on 5 th July 2022.	
		PP proposes	to comply all	the conditions	
		given in MOE	EF & CC issue	ed letter No-Q-	
		16017/38/2018	-CPA dated	24 th October	
		2019. The com	pliance of the c	conditions given	
		in MOEF &	c CC issued	letter No-Q-	
		16017/38/2018	-CPA dated 24	th October 2019	
		is submitted in	EIA/EMP repo	ort.	

24.9.6 The existing projects for sponge iron manufacturing plant was accorded the NOC vide lr.no. Env (NOC)2005/747/CR.97/D.I, dated 28th December 2005, for coal washery environmental clearance was accorded vide lr.no. J-11015/272/2007-IA.II (M) dated 9th April 2008 and for waste Heat Recovery Based Captive Power Plant of 25 MW capacity environmental clearance was accorded vide lr.no. J-13012/123/07-IA-II dated 12th October 2009. Consent to Operate was accorded by Maharashtra State pollution Control Board vide lr. no. Format1.0/CAC/UAN No. MPCBCONSENT- 0000123174/CO/2203001536 validity of CTO is up to 31.12.2023.

Sr.	Facilities	Units	As per NOC/EC dated 28 th	Implementation	Production as
No.			December 2005, 9 th April	status	per CTO
			2008 & 12 th October, 2009		
1.	Sponge Iron plant	TPA	3,24,000 TPA or 27000 TPM	Installed & in	27000 TPM
				operation	
2.	Coal Washery	MTPA	0.216 OR	Installed & in	Washed Coal
			150 TPH Capacity	operation	4,72,500 TPA
3.	Power Plant	MW	25	Installed & in	25 MW

24.9.7 Implementation status of the existing EC

[WHRB+AFBC	[WHRB+AFBC (only for	operation	
(only for standby)]	standby)]		

24.9.8 The unit configuration and capacity of existing and proposed project is given as below:

S. No.	Plant	As per EC da	ted 28th	Proposed capa	city as part	Total capac	ity After
	Equipment/	December 2005	, 9th April	of Expan	nsion	expansion	
	Facility	2008 & 12th	October	capac	ity	capacity	
		2009					
		Configuration	Capacity	Configuration	Capacity	Configuration	Capacity
1	Sponge Iron	1 x 500 TPD &	3,24,000			1 x 500 TPD &	3,24,000
	plant	4 x 100 TPD	TPA	-	-	4 x 100 TPD	TPA
2	Coal	0.216 MTPA	0.216			0.216 MTPA	0.216
	Washery	OR	MTPA			OR	MTPA OR
		150 TPH	OR	-	-	150 TPH	150 TPH
			150 TPH				
3	Power Plant	25 MW	25 MW	-	-	25 MW	25 MW
4	Induction	-	-	6 x 30 T	5,00,000	6 x 30 T	5,00,000
	Furnace				TPA		TPA
5	Rolling Mill	-	-	5,00,000 TPA	5,00,000	5,00,000 TPA	5,00,000
					TPA		TPA

24.9.9 The details of the raw material requirement for the proposed project along with its source and mode of transportation is given as below:

Sr.	Name of the	Raw Material	Requirement	Source and Distance	Mode of						
No.	Product		in TPA		Transportation						
	Existing Plant										
For	Sponge Iron Pla	nt									
1	Iron Ore	Iron Ore	507384	Own mines located at	Road						
				Gadchiroli & open market	180 km						
2	Coal	Coal	435456	WCL Mines	Road						
					5-50 km						
3	Dolomite	Dolomite	46656	Yavatmal & open market	Road						
					50 km						
For	Coal Washery										
1	Coal	Coal	738215	WCL Mines	Road						
					5-50 km						
			Proposed Plan	nt							
1	M. S. Billets	M.S. Scrap/Tail	1,44,000	Local Market / Inhouse	By Road						
		cutting		Rolling Mill	200-500 km/						
					Truck						

Sr.	Name of the	Raw Material	Requirement	Source and Distance	Mode of
No.	Product		in TPA		Transportation
		Sponge Iron	3,96,000	3,24,000 TPA from	Conveyor/Road
				in-house i.e. Ghugus plant	150-200 km
				and remaining 72000 TPA	
				will be from proposed	
				plant at Konsari, District	
				Gadchiroli	
		Silico Manganese	5000	Local Market	By Road
		as additives			30 km
2	Hot Rolled	Molten M.S.	5,00,000	In-house	Direct Charging
	long products/	Billets for hot			
	TMT Bars	charging			

- 24.9.10 The existing water requirement is 2674 m³/day, which will be sourced from Wardha River. The water requirement for the proposed project is estimated as 1627 m³/day, will be sourced from Wardha River and an agreement has been signed with Irrigation Department, Chandrapur for supply of water.
- 24.9.11 Total Power required for proposed expansion project is 30 MW which will be sourced from own captive power plant and MSEDCL.

24.9.12 Baseline Environmen	tal Studies:
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Period	15/09/2020 to 15/12/2020
AAQ parameters at 8	• PM_{10} : 40.9 to 79.4 $\mu g/m^3$
Locations (min and	• $PM_{2.5}$: 24.0 to 43.2 $\mu g/m^3$
max)	• SO ₂ : 10.7 to 35.6 μ g/m ³
	• NOx: 17.5 to 46.3 μ g/m ³
Incremental GLC level	• $PM_{10} = 1.03 \ \mu g/m^3$ (Level at 0.5 km in SE Direction)
	• $SO_2 = 8.1 \ \mu g/m^3$ (Level at 0.8 km in SE Direction)
	• NOx = $3.12 \ \mu g/m^3$ (Level at 0.8 km in SE Direction)
Ground water quality at	pH: 7.47 to 7.75, Total Hardness: 240 to 1022 mg/l, Chlorides: 9.9 to 332.5
8 locations	mg/l, Fluoride: 0.684 to 1.19 mg/l. Heavy metals: ND
Surface water quality at	pH: 7.01 to 7.54, DO: 6.4 to 7.1 mg/l, BOD: <3mg/l & COD: <5mg/l.
8 locations	
Noise levels Leq (Day	35.6 to 54.8 for the day time and 34.5 to 50.2 for the Night time.
and Night)	
Traffic assessment study	• Traffic study has been conducted at State Highway which is adjacent from
findings	the plant site.
	• Transportation of raw material, fuel & finished product will be done by
	road.

Period		15/0	9/2020 to 15/12/20	20	
	Existing	, PCU is 1162 P	CU/day on MIDC	road and existin	ng level of
	service (LOS) is:			
	Road	V (Volume in	C (Capacity in	Proposed V/C	LOS
		PCU/day.)	PCU/day.)	Ratio	
	MIDC	1162	5000	0.23	A-Very
	road				Good
	* Note: Capa	city as per IRC-73	:1980 Guide line fo	or capacity for road	ls.
	Conclusion:	The level of se	ervice will be A-	Very Good after	including
	additional tra	ffic due to propose	ed project		
Flora and fauna	No schedule	I animals are found	1 in the study area.		

24.9.13 The details of solid and hazardous waste generation along with its mode of treatment/disposal is furnished as below:

Solid Waste	Quantity	Mitigation Measures
	(TPA)	
		Existing
A. Solid Was	te	
Char	48000	Sold to local entrepreneurs for making coal briquettes
Bottom Ash	9855	Brick Manufacturing and Land Filling
Accretion	3650	Land Filling
Fly Ash	39785	Low land filling and brick manufacturing
Dust from	7300	Brick manufacturing
ESP		
Washery	91250	Sold to third party
reject		
B. Hazardou	s Waste	
Used/Spent	3.65 Kl/	Sold to authorized vendors
oil	Annum	
		Proposed
A. Solid Was	te	-
Slag	25,000	A slag crusher will be installed to crush slag. Iron particles will be
		separated by using magnetic separator and will be reused in Induction
		Furnace.
		Initially Slag Residual slag will be used for levelling of plot and
		hardening of working area & construction of plant internal roads.
		In future possibilities will be explored to use slag for construction of
		internal village roads.
Tail cutting	15,000	100% reuse in induction furnace
B. Hazardou	s Waste	
There is no ge	eneration of h	azardous waste except used oil from machineries and transformers. This
waste oil will	be used for se	econdary purpose and will be sold to authorized vendors / recyclers

24.9.14 Public Consultation:

Details of advertisement given	19 th June 2021
Date of public consultation	30 th June 2021
Venue	Project Site (Plot A-1 and A-2, MIDC Area, Ghugus, Chandrapur,
	Maharashtra)
Presiding Officer	Additional District Magistrate
Major issues raised	Pollution Control
	• Employment
	CSR activities

Action plan as per MoEF&CC O.M. dated 30/09/2020:

S.N.	MAJOR ACTIVITY		YEAR O	TOTAL		
	HEAD	S	1 st Year	2 nd Year	3 rd Year	EXPENDI
			(Rs. in Lakhs)	(Rs. in	(Rs. in Lakhs)	TURE
				Lakhs)		(Rs. in
						Lakhs)
A)Ba	sed on Need Base	d & SIA Stu	dy			
1.	Training will	Physical	Training to the	Training to	Training to the	
	be provided to	Nos and	eligible	the eligible	eligible	
	the local youths	Villages	unemployed,	unemployed,	unemployed,	30.00
	for skill		interested youth	interested	interested youth	
	development in		of, Ghughus,	youth from	from	
	coordination		Shengaon,	Ghughus,	Pandharkawada,	
	with the local		Nakoda and	Belur, Wadha	Pipri and	
	ITI centre.		Dhanora	and Anturla	Ghughus	
		Budget in	10.00	10.00	10.00	
		Lakhs Rs.				
2. Co	ommunity and In	frastructure	Development			
	Augmentation	Physical	At village	Maintenance	Maintenance	
	of water supply	Nos and	Ghugus,			15.00
	to existing	Villages	Dhanora,			
	toilets (under		Pandharkawada,			
	Swacha Bharat		Nakoda,			
	Scheme).		Anturla and			
			Pipri			
		Budget in	10.00	3.00	2.00	
		Lakhs Rs.				
	LED solar light	Physical	At Ghugus,	Maintenance	Maintenance	40.00
	will be	Nos and	Shengaon,			
	provided in the	Villages	Nakoda,			
	street with		Dhanora and			
	solar panel		Usgaon			
		Budget in	25.00	10.00	5.00	
		Lakhs Rs.				
c.	Providing	Physical	Providing 1	Maintenance	Maintenance	65.00

S.N.	MAJOR ACTIVITY		YEAR O	TOTAL		
	HEAD	S	1 st Year	2 nd Year	3rd Year	EXPENDI
			(Rs. in Lakhs)	(Rs. in	(Rs. in Lakhs)	TURE
				Lakhs)		(Rs. in
						Lakhs)
	Truck mounted	Nos and	machine for			
	road sweeping	Villages	cleaning of			
	machine		adjoining			
			connecting			
			village roads			
			operated by			
			LMEL.			
		Budget in	45.00	10.00	10.00	
		Lakhs Rs.				
	Providing	Physical	Providing 2	Maintenance	Maintenance	
	mobile mist	Nos and	machine to			
	sprinklers and	Villages	surrounding			
d.	fugitive dust		villages			65.00
	controller	Budget in	45.00	10.00	10.00	
	machines to	Lakhs Rs.				
	nearby villages		~			
		Physical	Construction of	Maintenance	Maintenance	
		Nos and	borewell along			
		Villages	with provision			
			of RO plant			
	D · ·		(Water			
	Provision		Purification			
e.	of Drinking		withdispenser)			
	water Facility		In the village			
			Dhanara and			
			Dianora and			
		Dudget in	40.00	10.00	10.00	
		Lakhs	40.00	10.00	10.00	60.00
		Physical	2 No of	Maintenance	Maintenance	
		Nos and	Ambulance	and Operation	and Operation	
		Villages	Vehicle and 1	and operation	und operation	
	Provision of		No. of Funeral			
f.	Ambulance &		Vehicle for			90.00
	Funeral vehicle		surrounding			2 010 0
			village			
		Budget in	50.00	20.00	20.00	
		Lakhs Rs.				
3. Ed	lucation	I	1	1		1
a.	Training Program	n To sup	port 3 Rural sch	ools in Chandra	apur 200).00

S.N.	. MAJOR ACTIVITY		YEAR O	TOTAL		
	HEADS		1 st Year	2 nd Year	3rd Year	EXPENDI
			(Rs. in Lakhs)	(Rs. in	(Rs. in Lakhs)	TURE
				Lakhs)		(Rs. in
						Lakhs)
	from 7 th Std to 10	h Taluka	, B) TO facilitate	e teachers' capa	ncity	
	Std Students from	n buildin	g training for enab	ling them to im	pact	
	Janata Vidyalaya	quality	education. C) To	o undertake hol	istic	
	Ghugus, New	develop	pment programmes	s with the stud	ents	
	English High	from	academic overa	ll progress	and	
	School & Jr.	develop	pment of students.	D) to ensure sch	ools	
	College	have ap	opropriate infrastruc	cture to improve	e the	
	Pandharkawada,	quality	of education being	imparted.		
	Priyadarshini					
	Kanya Vidyalaya	ı				
	Ghugus					
	Budget in		200.00			
	Lakhs Rs.					
Total	(A)				56	5.00
B) BA	ASED ON PUBLI	C HEARIN	G /CONSULTATI	ION	1	Т
1.	Health camps	Villages	Health camps	Health camps	Health camps	
	including		will be	will be	will be	
	medicine in the		organized in	organized in	organized in	
	nearby villages		Ghugus,	Mahtardevi,	Nakoda,	
			Usgaon and	Wadha and	Shengaon and	30.00
			Dhanora	Chandur	Ghugus	
		D. L. J	Village.	Village.	Village.	4
		Budget in	10.00	10.00	10.00	
-	T	Lakhs Rs.			D · · ·	
2.	Improvement	Villages	Provision	Provision	Provision	
	in the Facilities		of various	of various	of various	
	in primary		medical Kits/	medical Kit/		
	nearth center		medical	medical		
			equipment to	equipment	equipment to	(0.00
			primary nearth	primary	primary nearth	60.00
			Chugue willege	nearth centers		
			Ghugus village.	village.	Osgaon vinage.	
		Budget in	40.00	10.00	10.00	-
		Lakhs Rs.				
3.	Plantation	Physical	Avenue planta	tion in nearby vil	llages : Ghugus	
		Nos and	s and Mhatardevi, Nakoda, Shengaon, Usgaon and			
		Villages		Dhanora Village		45.00
		Budget in	15.00	15.00	15.00	1
		Lakhs Rs.				

S.N.	MAJOR ACTIVITY		YEAR OF IMPLEMENTATION			TOTAL
	HEADS		1 st Year	2 nd Year	3rd Year	EXPENDI
			(Rs. in Lakhs)	(Rs. in	(Rs. in Lakhs)	TURE
				Lakhs)		(Rs. in
						Lakhs)
4.	development of	Physical	Development of R	Road for decon	gestion of traffic	
	Road for	Nos and				
	decongestion	Villages				
	of traffic at	Budget in		150		150.00
	southern end of	Lakhs Rs.				130.00
	the plant					
	connected to					
	Nakoda village					
	·		Total (B)			285.00
	Total (A + B)					850.00

PP hereby confirmed that PP will adopt the following 2 nos. of villages for taking up developmental activities:

S.N.	Activities (Year 2022-2024)	Proposed	Expenditure	and
		Activities (A	l figures in Rs	. Lakhs)
		Usgaon	Mhatardevi	Total
		Village	Village	
1.	Model Anganwadi – Improvement in infrastructure	20.00	20.00	40.00
	Basic amenities and teaching learning material.			
2.	Construction of Concrete Road and Closed Drains	50.00	150.00	200.00
	(Nali)			
3.	Renovation of Primary School and providing a library	35.00	35.00	70.00
	and computer lab in the school			
4.	Shamshan Bhumi Infrastructural Development	10.00	10.00	20.00
	(Construction of Shed, flooring work, etc)			
5.	Vocational training Center	10.00	10.00	20.00
6.	Sanitization (Construction of Public Toilet, disinfection	15.00	15.00	30.00
	equipments etc)			
7.	High Mast will be installed as required	15.00	15.00	30.00
8.	Based on 12th std. results, Scholarship for meritorious	10.00	10.00	20.00
	students for Graduation of technical studies - 2 students			
	from each village.			
9.	Medical equipments to elderly people	15.00	15.00	30.00
Expe	nditure for Adopted Village Development			460.00
				Lakhs

24.9.15 The capital cost of the proposed expansion project is Rs. 660 Crores and the capital cost for environmental protection measures is proposed as Rs. 12.2 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs. 1.003 Crores. The total

employment generation from the project is 600 nos. of people. The details of cost for environmental protection measures is as follows:

S.N.	Particulars	Capital Cost	Operation and
		(in Crores Rs.)	Maintenance
			(in Crores Rs./Annum)
Prop	oosed EMP cost for Air Pollution Control		
1.	Bag filter with stack for SMS (2 No. with Teflon	5	0.5
	Bags) & Dust Collector and fume hood (dust		
	extraction system)		
Prop	osed EMP cost for Water Pollution Control		
2.	Settling Tank for Industrial Water Treatment	0.25	0.02
3.	STP for Domestic Water Treatment	0.40	0.01
4.	Wheel washing System (1 No.)	0.05	0.003
5.	Dust Sweeping Machine and Water Sprinkler	0.5	0.05
6.	Rain Water Harvesting	5.0	0.15
7.	Environmental Monitoring (CAAQMS and online	0.5	0.2
	stack monitoring system)		
8.	Solid Waste Management	0.4	0.03
9.	Green Belt Development	0.1	0.04
10.	Funds for social welfare as per OM dated	13.1	2% of net profit per year as
	30.09.2020		per Ministry of Company
			Act
	Total	25.3	1.003

- 24.9.16 Existing green belt has been developed in 47.7 ha. area which is about 51% of the total project area of 93.52 ha., 2,34,650 nos. of trees are planted and 1,05,000 nos. survived till date. Further gap filling will be done. About 15000 nos. of trees will be planted. A 10m wide greenbelt, consisting of at least 3 tiers around plant boundary will be developed as greenbelt as per CPCB/MoEF&CC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare.
- 24.9.17 It is submitted by the PP that there is no violation under EIA notification 2006, however there is Lokayukta Maharashtra State Complaint No.: LA/COM/3729/2021 (T-6) dated 10.11.2021. A complaint was filed by the Complainant with the Hon'ble Lokayukta regarding the action taken by the Hon'ble NGT Bench Pune in 2014 after passing the final order for banning the sponge iron factories. MPCB vide letter O.No. MPC/ROC/579/2022 dated 11.11.2022 has stated that "the office of M.P.C.B. Chandrapur visited the industry on 01/08/2022. As per the error during the inspection, raised a show cause notice was issued to the industry dated 04/08/2022. Also Proposed directions were also issued vide letter dated 13/09/2022 by the board. On the said directive, the industry submitted its compliance report to this office vide letter dated 14/09/2022. This office visited to the industry on dtd. 10/11/2022 to verify the compliance of the industry." The said letter concludes that "it is observed that the industry has complied with the earlier directives issued on 22/02/2018 and the proposed directives issued on 13/09/2022. Complied to a large extent."

Certified Compliance report from Integrated Regional office MoEFCC

24.9.18 The Status of compliance of earlier EC was obtained from Regional Office, vide letter dated 10.11.2021 in the name of M/s. Lloyds Metals & Energy Limited. ATR was submitted by the PP vide letter No. NIL dated 27.10.2022. IRO has reviewed the ATR and has issued a closure report no. 3-36/2008 (ENV)/10724, 3-36/2008 (ENV)/10725 and 3-36/2008 (ENV)/10726 dated 7th December 2022 according to which PP has complied with the partially complied conditions.

Compliance to CEPI Guidelines

24.9.19 The proposed project falls in the Critically Polluted Area of Chandrapur as notified by Central Pollution Control Board (CPCB). The compliance of the conditions as per Ministry's guideline dated 24th October 2019 are as follows:

Sl.	Stipulated Conditions /	Measures to comply CEPI Recommendation as reported by the	
No.	Recommendations	PP	
Air l	Environment		
i.	Stack emission levels should be stringent than the existing standards in terms of the identified critical pollutants.	Existing Sponge Iron Plant: As per the renewed Consent to operate the maximum limit of PM emission is 50 mg/Nm ³ . In the existing Sponge Iron Plant 3 fields ESP's are upgraded/modified by spending Rs 400 Lacs. Addition of one more field is proposed if required. The online results for the month of January shows that PM emission is in the range of 21.42 to 47.75 mg/m ³ . Power Plant:- As per the renewed Consent to operate the maximum limit of PM emission is 50 mg/Nm ³ . In the existing Power Plant 4 fields ESP will be modified to bring down PM emission upto 30 mg/Nm ³ . Coal Washery : Bag filters (188 No. of Tafflon Bags) is installed. Proposed Steel Melting Shop: Fume Extraction System followed	
		by 2 Bag filters one each for 3 x 30 T IF (180 Teflon bags each) are proposed with dust collector and followed by stack of 42 meter.	
ii.	CEMS may be installed in all large/medium red category industries (air polluting) and connected to SPCB and CPCB servers.	All existing stacks are equipped with continuous emission monitoring system (CEMS) along with remote calibration facility for gaseous parameters and in expansion also CEMS will be installed & will be connected to MPCB and CPCB servers. All existing CEMS are connected to MPCB and CPCB servers. Existing:- Sponge Iron Plant: Kiln 1 and Kiln 2: Common Stack and Separate ESP with each kiln. Kiln 3 and Kiln 4: Common Stack and Separate ESP with each kiln. Kiln 5: Stack and ESP with kiln. Power Plant: Stack and ESP Proposed:- SMS: 2 Stacks connected with fume extraction system followed by bag filter to 6 x 30T	
Sl.	Stipulated Conditions /	Measures to comply CEPI Recommendation as reported by the	
------	--	--	--
No.	Recommendations	РР	
		After expansion there will be a total 6 Nos. Opacity meters as	
		OCEMS (4 Nos. existing + 2 No. proposed).	
iii.	Effective fugitive emission control measures should be imposed in the process, transportation, packing etc.	 After expansion there will be a total 6 Nos. Opacity meters a OCEMS (4 Nos. existing + 2 No. proposed). All Internal roads will be concretized to prevent the fugitive dust emission due to vehicular movement. (80% wor completed & 20% work will be completed within 1 month) Speed limit in plant premises is in control. All transportation vehicles carry/ will carry a valid PU (Pollution under Control) Certificate. Flow of vehicles is being/will be maintained. Proper traffic management is being/will be undertaken. Regular servicing & maintenance of vehicles is being/will be carried out. Proper dust masks are being/will be provided to worker coming in direct contact of fugitive emissions Adequate greenbelt has already been developed in the plan area which will be further strengthen in the proposed expansion project. Greenbelt acts as a surface for settling of dust particle and thus reduces the concentration of particulate matter in air. Water Sprinkling is being /will be done to reduce fugitive emission in the plant and maintain the ambient air qualit within CPCB standard. Existing No. of water sprinklers:100 Nos. Proposed No. of water sprinklers:200 Nos. Adequate spares of critical components of dust and ga collection systems will be kept to ensure trouble - free operations and continuous compliance to emission norms. Ambient air quality is being/will be regularly monitored, so a to keep a check on the emissions of different pollutants. Fugitive emission sources are being identified and monitore on a regular basis. It is proposed to acquire one no. mechanical sweeping machine for cleaning of the roads. 	
		cleaning of the roads.	
iv.	Transportation of materials by	cleaning of the roads. The raw material required for the existing sponge iron plant, coal	
	rail/ conveyor belt, wherever	washery is being transported by tarpaulin covered trucks by road.	
	feasible.	For proposed unit 1,44,000 TPA scrap will be transported by	
		tarpaulin covered trucks by road. Sponge iron used in SMS Plant	
		will be transported by closed conveyor as 3,24,000 TPA from in-	
		from the proposed plant at Konsari District Gadebiroli by	
		tarpaulin covered trucks.	
		Billets in Molten stage will be transferred to Rolling Mill via	
		ladder & caster as long products/ TMT Bars will be produced by	

Sl.	Stipulated Conditions /	Measures to comply CEPI Recommendation as reported by the
No.	Recommendations	PP
		Hot Rolled Technology.
v.	Encourage use of cleaner fuels	Electricity will be used as fuel in Induction Furnace. For
	(pet coke/ furnace oil/ LSHS may	manufacturing of TMT Bars Hot Rolled Technology will be used.
	be avoided).	No fuel will be used.
vi.	Best Available Technology may	Induction Furnace will be used for Billet production and Hot
	be used. For example; usage of	Rolled Technology will be used for production of Long Products /
	EAF/SAF/ IF in place of Cupola	TMT Bars. Both these technologies are proven and best available.
	furnace. Usage of Supercritical	
	technology in place of sub-	
	critical technology.	
V11.	Increase of green belt cover by	Total area of the project is 93.52 ha.
	40% of the total land area beyond	Out of the total area, green belt development is done in $4/.7$ ha
	the permissible requirement of	(51%) of plant area of A-1 & A-2.
	33%, wherever feasible.	The plant has been in operation since 1994-95 and 2,34,650 hos. of
		filling will be done. About additional 15000 nos, of trees will be
		planted
viii	Stipulation of greenbelt outside	LMEL has planted and maintained about 1.00.000 trees in
v 111.	the project premises such as	residential colony at 2 kms away from the plant. In addition to this
	avenue plantation. plantation in	it is committed to do plantations at locations suggested by Nagar
	vacant areas, social forestry, etc.	Parishad Ghugus, Nearest Gram Panchayat Usgaon & Mhatardevi.
ix.	Assessment of carrying capacity	Adequate Roads of proper size are present inside the plant
	of transportation load on roads	premises further strengthening and widening of roads is in
	inside the industrial premises. If	progress. Roads with their sizes are given in Plant layout.
	the roads are required to be	
	widened, shall be prescribed as a	
	condition.	
Wate	er Environment	
i.	Reuse/recycle of treated	100% reuse of waste water after proper treatment is being
	wastewater, wherever feasible.	practiced.
		Domestic wastewater from the existing plant is being treated in
		SIP and Domestic wastewater from the proposed plant will be
		treated in proposed STP for reuse in Plantation/Road cleaning.
11.	continuous monitoring of	from sponge iron plant & power plant is being treated in ETD and
	and medium Red Category	reused for dust suppression and wastewater from coal washery is
	Industries (water polluting)	being reused in process. The domestic wastewater is being treated
	maasures (water ponuting).	in STP and reused for plantation. In the proposed plant 312 KLD
		of wastewater generated will be treated in settling tank and reused
		in the process. Continuous monitoring of effluent quality/quantity
		is not applicable as ours is not water polluting industry.
iii.	A detailed water harvesting plan	Rain water harvesting has been already developed in the existing

Sl.	Stipulated Conditions /	Measures to comply CEPI Recommendation as reported by the						
No.	Recommendations	PP						
	may be submitted by the project	plant to harve	st the rain w	vater to recharge the ground water level.				
	proponent	The details of	The details of the proposed rain water harvesting are given in					
		Chapter 10 of the EIA Report.						
iv.	Zero liquid discharge wherever techno - economically feasible.	The plant is maintaining zero liquid discharge. The wastewater from sponge iron plant & power plant is being treated in ETP and reused for dust suppression and wastewater from coal washery is being reused in process. The domestic wastewater is being treated in STP and reused for plantation. In the proposed plant 312 KLD of wastewater generated will be treated in settling tank and reused in the process.						
v.	In case, domestic waste water	Domestic was	Domestic waste water from the existing plant is being treated in					
	generation is more than 10 KLD,	STP and 25	KLD STP	is proposed for domestic waste water				
Lond	the industry may install STP.	treatment & re	eused for ex	pansion phase.				
	Increase of green belt cover by	Total area of t	ha project is	02 52 ha				
1.	40% of the total land area beyond	Out of the to	tal area ore	5 55.52 lla.				
	the permissible requirement of	(51%) of plan	t area of A-1	1 & A-2				
	33%, wherever feasible for new	The plant has	been in ope	ration since 1994-95 and 2,34,650 nos. of				
	projects.	trees are plan	ted and 1,0	5,000 nos. survived till date. Further gap				
		filling will be done. About additional 15000 nos. of trees will be						
		planted.						
ii.	Stipulation of greenbelt outside	LMEL has planted and maintained about 1,00,000 trees in						
	the project premises such as	residential colony at 2 kms away from the plant. In addition to this						
	avenue plantation, plantation in	LMEL is committed to do plantations at locations suggested by						
	vacant areas, social forestry, etc.	Magar Parishad Ghugus, Nearest Gram Panchayat Usgaon & Mhatardevi.						
iii.	Dumping of waste (fly ash, slag,	There is no d	umping of a	any solid waste outside plant boundary is				
	red mud, etc.) may be permitted	being carried	out for exist	ing plant.				
	only at designated locations approved by SPCBs / PCCs.	Existing Solic	l Waste Gen	eration				
		Solid	Ouantity	Mitigation Measures				
		Waste	TPA	5				
		Char	48000	Sale to local entrepreneurs for making				
				coal briquettes & use in CPP if				
				required				
		Bottom Ash	9855	Brick Manufacturing and Land Filling				
		Accretion	3650	Land Filling				
		Fly ash	39785	Low land filling and brick				
				manufacturing				
		Dust from ESP	7300	Brick manufacturing				

Sl.	Stipulated Conditions /	Measures to comply CEPI Recommendation as reported by the			
No.	Recommendations	РР			
		Washery		91250	Sold to third party
		reject			
		Proposed	Sol	id Waste	Generation
		Solid	Q	uantity	Mitigation Measures
		Waste			
		Slag	25	,000	A slag crusher will be installed to crush
			TF	PA	slag. Iron particles will be separated by
					using magnetic separator and will be
					reused in Induction Furnace.
					Initially Slag will be used for levelling of
					plot and hardening of working area &
					construction of plant internal roads.
					in future possibilities will be explore to
					village roads
		Tail	15	000	100% reuse in induction furnace
		cutting		,000 Эд	100% reuse in induction furnace
iv	More stringent norms for	Storage at	nd 1	handling	of hazardous waste is being done as per
1 .	management of hazardous waste	provisions		Hazardoi	is Waste Rules 2016
	The waste generated should be	3.65 KLA	Use	ed or Spe	nt oil is sold to authorized party for recycle.
	preferably utilized in co-				Find the second s
	processing.				
Othe	er Condition (Additional)				
i.	Monitoring of compliance of EC	Six Mont	hly	Compli	ances are being sent to Regional office
	conditions may be submitted with	MOEFCC	, N	lagpur re	egularly Certified compliance report from
	a third party audit every year.	IRO, Nagpur is enclosed with Final EIA Report. Yearly Audit of			ed with Final EIA Report. Yearly Audit of
		Compliance of EC Conditions by third party will be initiated by			
		coming fir	nanc	cial year i	.e. April 2023.
ii.	The % of the CER may be at	As per OM	/I da	ated 01.05	5.2018 the CER amount comes to Rs.3.3 Cr.
	least 1.5 times the slabs given in	As per the	is n	nechanisı	n this amount will be Rs.6.6 Cr. Whereas
	the OM dated 01.05.2018 for	LMEL is c	com	mitted to	spend 2% of Capital Investment i.e. Rs 13.1
	SPA and 2 times for CPA in case	cr.			
	of Environmental Clearance.				

24.9.20 M/s. Lloyds Metals & Energy Limited had initially made an online application vide proposal no. IA/MH/IND1/404101/2022 dated 19th December 2022 and the proposal was considered during 21st meeting of the EAC for Industry-I sector held on 16-17th January, 2023 wherein the committee recommended to defer the proposal to address the technical shortcomings. The deliberations and recommendations of the Committee during 21st EAC meeting area as follows:

Deliberations by the Committee (EAC during 16-17th January, 2023)

The Committee noted the following:

- 1. The proposed project falls in the Critically Polluted Area of Chandrapur as notified by Central Pollution Control Board (CPCB). The EAC deliberated on the compliance of the conditions as per Ministry's guideline dated 24th October 2019 and found it unsatisfactory. The EAC is of the opinion that robust and quantified mitigation plan shall be prepared.
- 2. The PP/Consultant presented the drone video of the project site and the EAC is of the opinion that housekeeping of the plant area needs to be improved and detailed action plan needs to be submitted.
- 3. Total land leased by MIDC to M/s Lloyds Metals & Energy Limited (LMEL) is 93.52 ha in which plot no. A-1 is 4.00 ha & A-2 is 89.52 ha. No Additional land is required. The EAC is of the view that details of land involved in the project [Total area of the land; Type of land; Details of possession of land in the name of PP; Copy of proof of land with area of the land; Conversion of land for industrial purpose from the State Government] needs to be submitted.
- 4. The EAC noted that the water requirement has been increased from 260 KLD to 1627 KLD, power requirement reduced from 35 MW to 30 MW and employment generation from 750 to 600 in comparison to the granted ToR dated 10.02.2020 for the instant proposal. However, PP has not pointed out the same during the appraisal of the project. The EAC is of the view that such facts shall be specifically stated in the EIA/EMP Report and also presented during the appraisal of the project. The EAC also advised PP/Consultant to present such changes in a tabular form for each parameter with the quantity defined in ToR, PH and EIA/EMP Report.
- 5. The EAC deliberated on water balance diagram and is of the view that industry shall revisit on water quantity demarcated to greenbelt development, evaporation losses and other operations, and submit the revised water balance.
- 6. The EAC noted that existing green belt has been developed in 47.7 ha. area which is about 51% of the total project area of 93.52 ha., 2,34,650 nos. of trees are planted and 1,05,000 nos. survived till date which less than CPCB norms of 2500 saplings/ha. The EAC opined that gap filling shall be undertaken and maximum plantation shall be completed within 1st year. Also, Greening and Paving shall be implemented in the plant area and road side to arrest soil erosion and dust pollution from exposed soil surface. PP shall submit a revised greenbelt development plan alongwith an undertaking in this regard.
- 7. Two drains are flowing within the project site. The EAC deliberated on the intake and outflow of drain water and is of the opinion that a periodic monitoring shall be undertaken in this regard. Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be submitted.

- 8. Anuradha Lake (620 m, W), Wardha River (2.5 Km, SW), Nirguda Nala (3.0 Km, SSW), Penganga River (5.0 Km, SE) and Sarai Nala (6.5 Km, NE) are flowing within 10 Km. radius of the plant site. The EAC is of the opinion that a robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be submitted.
- 9. The EAC deliberated on the raw material requirement and observed that molten M.S. Billets for hot charging will be used for producing Hot Rolled long products/ TMT Bars. The EAC is of the view that 100% of billets shall be rolled directly in hot stage. Natural gas shall be used as a fuel. PP shall submit an undertaking in this regard.
- 10. The nearest habitation to plant is Ghugus village located at 0.5 km away from the project site boundary in North direction. Project Proponent shall submit environmental safeguard measures that will be undertaken to minimise the impact on the habitation of the locals.
- 11. PP shall undertake village adoption and formulate Village Adoption program consisting of need-based community development activities, shall be prepared to develop them into model villages. PP shall submit details of the villages to be adopted.
- 12. The Committee deliberated on the public hearing issues along with action plan submitted by the proponent to address the issues raised during the public hearing and opined that action plan submitted to address the PH issues and socio-economic development of the nearby villages shall be revised and submitted as per Ministry's OM dated 30.09.2020.
- 13. The EAC is of the opinion that PP shall also submit the status of implementation of the action plan in order to address the issues raised during the previous PH.
- 14. The Committee deliberated on the baseline data and observed that submitted atmospheric inversion data needs to be reverified. Also the maximum value of total hardness has been found to be beyond the prescribed standard. PP shall submit justification along with mitigation measures.
- 15. The Committee deliberated on the incremental GLC due to the proposed project and observed that incremental GLC for CO has not been submitted in the brief. In this regard, the EAC is of the opinion complete information in this regard shall be submitted.
- 16. The EAC noted that there is Lokayukta Maharashtra State Complaint No.: LA/COM/3729/2021 (T-6) dated 10.11.2021 filed regarding the action taken by the Hon'ble NGT Bench Pune in 2014 after passing the final order for banning the sponge iron factories. MPCB vide letter O.No. MPC/ROC/579/2022 dated 11.11.2022 has stated that "the office of M.P.C.B. Chandrapur visited the industry on 01/08/2022. As per the error during the inspection, raised a show cause notice was issued to the industry dated 04/08/2022. Also Proposed directions were also issued vide letter dated 13/09/2022 by the board. On the said directive, the industry submitted its compliance report to this office vide letter dated 14/09/2022. This office visited to the industry on dtd. 10/11/2022 to verify the compliance of the industry." The EAC is of the opinion that PP/Consultant shall submit the summary of the case with the latest updates and requisite documents. The EAC also advised PP/Consultant to give the details of details of other case, if any against the instant project.

- 17. Representations have been received through email dated 13.01.2023 and 16.01.2023 requesting for stay in the grant of Environment Clearance on multiple issues raised pertaining to the said project. The EAC is of the opinion that the project proponent shall submit the pointwise clarification on the issues raised in the representation dated 13.01.2023 and 16.01.2023. The EAC advised the Ministry to forward the representation to project proponent for their clarification. In this context, representation has been forwarded to PP.
- 18. The EAC noted that the Date of Advertisement is wrongly given as 19th June, 2021 in the brief, however the actual date is 19th April, 2021. The EAC warned the PP/Consultant to be careful while submitting the information.
- 19. In view of above facts, EAC advised PP to revise the EIA/EMP report covering all the desired information for further consideration.
- 20. The PP/Consultant agreed to the suggestions of EAC and requested EAC to allow reappear after the revision of the application incorporating the desired information.

Recommendations of the Committee (EAC during 16-17th January, 2023)

In view of the foregoing and after detailed deliberations, the committee recommended to **defer the proposal** to address the shortcomings enumerated at para no. 24.9.19 above. The proposal may be considered after submission of the requisite information.

24.9.21 M/s. Lloyds Metals & Energy Limited has submitted a fresh online application vide proposal no. IA/MH/IND1/417900/2023 dated 21st February 2023 addressing the technical issues raised during 21st meeting of the EAC for Industry-I sector held on 16-17th January, 2023 which is as follows:

Sl.	ADS raised by EAC	Submission of PP
No.		
1.	The proposed project falls in the	PP has submitted the revised compliance of the conditions as
	Critically Polluted Area of	per Ministry's guideline dated 24 th October 2019. The same is
	Chandrapur as notified by Central	updated at para 24.9.19 above.
	Pollution Control Board (CPCB).	
	The EAC deliberated on the	
	compliance of the conditions as per	
	Ministry's guideline dated 24 th	
	October 2019 and found it	
	unsatisfactory. The EAC is of the	
	opinion that robust and quantified	
	mitigation plan shall be prepared.	
2.	The PP/Consultant presented the	More improvement in housekeeping following actions are
	drone video of the project site and	implemented and some are proposed.
	the EAC is of the opinion that	• A mechanical sweeping machine will be procured by April
	housekeeping of the plant area needs	2023 at the cost of Rs. 45 Lacs

Sl.	ADS raised by EAC			Submissi	ion of PP	
No.						
	to be improved and detailed action	•	Number of l	nousekeeping s	staff/labours w	ill be increased
	plan needs to be submitted.		from 15 nos.	to 25 nos.		
		•	Greening and	d Paving shall	be implemented	ed in plant area
			and internal	road side. (Afte	er completion of	of concretization
			of internal ro	ads)		
		•	All internal r	oads will be of	concrete. Wor	k of about 80 %
			of CC Road	s of internal ro	bads is comple	ted & work for
			balance 20%	is in progress.	It will be comp	pleted by March
2	Total land lagged by MIDC to M/a		2023.		-::-	-1 1
з.	I loud Matels & Energy Limited	•	The land us	e of project	site is industri	al land and is
	(I MEL) is 02.52 he in which plot no		MDC to M/	project propor	ent. The total	and leased by
	(LIVIEE) is 95.52 ha in which plot ho. A-1 is 4.00 ha & A-2 is 89.52 ha No.		03 52 hectar	s in which plot	s & Ellergy Lill no A_{-1} is 4.0	$0 H_2 & A_2 2 is$
	Additional land is required The		89 52 Ha MI	DC	10. 11-1 13 4.0	10 11a & A- 2 13
	EAC is of the view that details of	•	Out of the te	otal area, greei	n belt developi	ment is done in
	land involved in the project [Total		47.7 ha (51%) of plant area	of A-1 & A-2.	
	area of the land; Type of land;	•	5.0 ha land f	or project unde	r consideration	is part of 93.52
	Details of possession of land in the		ha land.	1 5		1
	name of PP; Copy of proof of land					
	with area of the land; Conversion of					
	land for industrial purpose from the					
	State Government] needs to be					
	submitted.					
4.	The EAC noted that the water	To	oR for EIA stu	idy for the pro-	posed project o	of Installation of
	requirement has been increased from	In	duction Furna	ce, Rolling M	ill & Submerge	ed Arc Furnace
	260 KLD to 1627 KLD, power	to	r production o	f Ingots, Billet	s 5,00,000 TPA	A, TMT & Long
	requirement reduced from 35 MW to	pr	oduct 5,00,0	UU IPA and D_{10}	Ferro alloys	25,000 IPA
	from 750 to 600 in comparison to the		spectively at I	101 NO. A-1 a Joharoshtra	Γ_{0} P_{0} P_{0	Area, Griugus,
	granted ToR dated 10.02.2020 for	11	1011/243/2019	-IA II(I) dated	10.02 2020 Br	it now company
	the instant proposal However PP	ha	s decided to	drop the inst	allation of the	$2 \times 2 \times 9 \text{ MVA}$
	has not pointed out the same during	Su	ibmerged Arc	Furnace for pr	oduction of 25	.000 TPA Ferro
	the appraisal of the project. The EAC	al	loys.	I		,
	is of the view that such facts shall be		5			
	specifically stated in the EIA/EMP	Re	evised water of	quantity, Power	r Requirement	& Employment
	Report and also presented during the	ge	neration are as	s follows:-		
	appraisal of the project. The EAC	F	Requirement	Water in	Power in	Employment
	also advised PP/Consultant to		as per	KLD	MW	generation
	present such changes in a tabular	ר	TOR	260	35	750
	torm for each parameter with the	F	РΗ	1627	30	600
	quantity defined in ToR, PH and		Document	1.05	20	
	ЕІА/ЕМР Кероп.		EIA/EMP	1627	30	600
		r	eport			

Sl.	ADS raised by EAC		Submis	sion of PP	
No.					
		Revised	1627	30	600
		EIA/EMP			
		Report			
		Reason for	Δfter	Δfter	Due to
		deviation	detailed	detailed	dropping of
		deviation		angingani	na SAE unit the
			engineering	engineeri	ng SAF unit the
			the water	and	employment
			quantity 19	dropping	of generation is
			revised.	SAF unit	the reduced by
				power	150 Nos.
				requirem	ent
				is revised	1
5.	The EAC deliberated on water	Water requirem	ent for the pro	posed proje	ct will be about 1627
	balance diagram and is of the view	KLD which wil	l be sourced fi	om Wardha	River.
	that industry shall revisit on water				
	quantity demarcated to greenbelt	Proposed Wa	ter Requiren	nent during	g Operation Phase
	development, evaporation losses and	(m ³ /day)			
	other operations, and submit the	Particulars	Water	Waste	Method of Disposal
	revised water balance.		Requirement	Water	
				Generation	
		SMS(Make up	777	Nil	-
		Water for			
		Rolling Mill	720	288	The wastewater will
		(Make up	720	200	be taken to a tank,
		Water for			where accumulated
		Rolling Mill			oil, if any, will be
		for cooling of			skimmed. After
		machines)			skimming and
					holding it for 1-2
					be recycled for
					cooling in Rolling
					Mill. There will be no
					discharge outside the
					plant premises.
		Domestic	30	24	For the treatment of
					sewage SIP is
					water will be used for
					gardening/Sprinkling.
		Plantation	100	Nil	-
		(@0.1			
		m ³ /sq,m)			
			1627	312	-
6.	The EAC noted that existing green	• Total area of	f the project is	93.52 ha. C	Out of this, green belt
	belt has been developed in 47.7 ha.	is in 47.7 ha	(51%) of plan	t area A-1 &	х А-2.

Sl.	ADS raised by EAC		Submission of PP
No.			
	area which is about 51% of the total	•	The plant is in operation since 1994-95 and 2,34,650 nos.
	project area of 93.52 ha., 2,34,650		of trees are planted and 1,05,000 nos. survived till date.
	nos. of trees are planted and 1,05,000	•	Further gap filling will be done. About 15000 nos. of trees
	nos. survived till date which less than		will be planted. The 15000 nos. of trees proposed for the
	CPCB norms of 2500 saplings/ha.		gap filling will be planted in six months.
	The EAC opined that gap filling		
	shall be undertaken and maximum		
	plantation shall be completed within		
	1st year. Also, Greening and Paving		
	shall be implemented in the plant		
	area and road side to arrest soil		
	erosion and dust pollution from		
	exposed soil surface. PP shall submit		
	a revised greenbelt development plan		
	alongwith an undertaking in this		
	regard.		
7.	Two drains are flowing within the	Tł	here are two natural drainages passing through project site.
	project site. The EAC deliberated on	Α	detailed drain conservation plan is prepared and submitted
	the intake and outflow of drain water	in	Revised EIA/EMP report.
	and is of the opinion that a periodic	Tł	here will be no discharge of untreated or treated industrial
	monitoring shall be undertaken in	an	d domestic effluent outside plant premises.
	this regard. Drainage Conservation	Α	well storm water drainage network is already constructed in
	scheme to protect the natural	pla	ant premises.
	drainage and its flow parameters;		
	along with Soil conservation scheme	<u>D</u> 1	rainage Conservation Plan
	and multiple Erosion control	•	There are two seasonal drains passing through the project
	measures shall be submitted.		site which are concreted. The drains collect surface runoff
8.	Anuradha Lake (620 m, W), Wardha		from the region.
	River (2.5 Km, SW), Nirguda Nala	•	A thick plantation has been developed on both sides of the
	(3.0 Km, SSW), Penganga River (5.0		drain. The drain is not diverted, closed, or disturbed and
	Km, SE) and Sarai Nala (6.5 Km,		nor in the future will be done.
	NE) are flowing within 10 Km.	•	The first drain passes from west to east and the second
	radius of the plant site. The EAC is		drain passes from north to east, however, both drains
	of the opinion that a robust and full		converged at approximately 0.6 km away from the
	proof Drainage Conservation scheme		proposed site and eventually the drains meet at the Wardha
	to protect the natural drainage and its		River (Figure 1).
	flow parameters; along with Soil	•	The size of the drain is unsymmetrical and the average
	conservation scheme and multiple		bottom width is about 2.50 m and the depth varies from
	Erosion control measures shall be		1.50m to 2.50m and the bed gradient of the seasonal drain
	submitted.		(SD1) and seasonal drain (SD2) is approximately 1 in 250
			and 1 in 300 respectively upto the confluence and overall,
			1 in 400 till the tributary of the Wardha river.
		•	One of the natural drains is passing through the area where

Sl.	ADS raised by EAC	Submission of PP
No.		
		 a railway siding is proposed. The total length of drains passing within the boundary of the proposed project to the intersection is 2000 m. The estimated cost for reconstructing the drain in proper shape and pitching in the inner side slope and bed will be Rs 3.00 Lakhs per year.
9.	The EAC deliberated on the raw material requirement and observed that molten M.S. Billets for hot charging will be used for producing Hot Rolled long products/ TMT Bars. The EAC is of the view that 100% of billets shall be rolled directly in hot stage. Natural gas shall be used as a fuel. PP shall submit an undertaking in this regard.	It is confirmed that 100% of molten billets shall be rolled directly in hot stage. There will be no installation of Re- heating furnace hence there will be no fuel including Natural Gas in the process.
10.	The nearest habitation to plant is Ghugus village located at 0.5 km away from the project site boundary in North direction. Project Proponent shall submit environmental safeguard measures that will be undertaken to minimise the impact on the habitation of the locals.	 It is to be noted that when plant was established in 1994-95 the nearest habilitation is at more than one km from plant site. During over the last 30 years people start constructing their houses etc. and came near the plant. A thick plantations is developed and now the plants are of 20-30 years old all round the plant. In addition to this the approach road from SH to plant Main Gate is under concentration and additional plantation is also proposed on both side of approach road. All existing Air Pollution Control Equipments are upgraded and some has been replaced with more efficient Air Pollution Control Equipments to minimize the concentration levels. In the proposed IF& RM also are efficient Air Pollutions Control Equipments are proposed to maintain emission level within 30 mg/Nm³. All existing stacks are equipped with OCEMS and attached to MPCB & CPCB servers and proposed stacks will also be equipped with OCEMS with attachment to MPCB & CPCB Servers. Display Board is also installed at Main Gate to display the concentration of various pollutants.
11.	PP shall undertake village adoption and formulate Village Adoption program consisting of need-based community development activities,	It is proposed to adopt two villages i.e. (1) Usgaon & (2) Mathardevi. A budget of Rs 4.6 Cr is kept for developing various social infrastructure in these two villages. The action plan is updated at para 24.9.14 above.

Sl.	ADS raised by EAC	Submission of PP
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	shall be prepared to develop them	
	into model villages. PP shall submit	
	details of the villages to be adopted.	
12.	The Committee deliberated on the	As per the recommendations of the Honorable committee the
	public hearing issues along with	fund for PH issues and socio-economic development of the
	action plan submitted by the	nearby villages has been revised to 13 Crores. The action plan
	proponent to address the issues	is updated at para 24.9.14 above.
	raised during the public hearing and	
	opined that action plan submitted to	
	address the PH issues and socio-	
	economic development of the nearby	
	villages shall be revised and	
	submitted as per Ministry's OM	
	dated 30.09.2020.	
13.	The EAC is of the opinion that PP	It is to be noted that this is the first Public Hearing conducted
	shall also submit the status of	at LMEL for any Project. Previously Public Hearing was not
	implementation of the action plan in	applicable being in Notified Industrial area.
	order to address the issues raised	
	during the previous PH.	
14.	The Committee deliberated on the	Site specific mixing depth (mixing height or convective stable
	baseline data and observed that	boundary layer and inversion height or nocturnal stable
	submitted atmospheric inversion data	boundary layer) is also an important input parameter for
	meeds to be revenined. Also the	computation and assessment of realistic dispersion of
	hear found to be beyond the	pointitants. There are different methods for generating these parameters but in the present case data published by CPCP in
	prescribed standard DD shall submit	parameters, but in the present case data published by CPCB in Spatial distribution of hourly mixing donth over Indian region
	justification along with mitigation	have been used
	massures	Total hardness is more than the desirable limit. Hardness is a
	incasures.	natural feature of the water supply in this area. It's caused by
		the presence of minerals (calcium and magnesium) picked up
		by source water on its journey through the ground
		(International Journal of Recent Trends in Science and
		Technology, ISSN 2277-2812 E-ISSN 2249-8109, Volume 4.
		Issue 3, 2012 pp 120-124).
15.	The Committee deliberated on the	There will be emission of CO in proposed plant only due to
	incremental GLC due to the	Vehicular emissions.
	proposed project and observed that	
	incremental GLC for CO has not	Maximum predicted incremental rise in concentration due to
	been submitted in the brief. In this	vehicular Emissions from the proposed project = $0.03 (\mu g/m^3)$
	regard, the EAC is of the opinion	
	complete information in this regard	
	shall be submitted.	
16.	The EAC noted that there is	• Mr. Vinesh Madanya Kalwal complained to Honorable

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	Lokayukta Maharashtra State	Lokayukta	Maharashtra. Duri	ng hearing Honorable
	Complaint No.: LA/COM/3729/2021	Lokayukta	observed that "Despi	te action been taken by
	(T-6) dated 10.11.2021 filed	this office	on his complaint the	complainant was smiling
	regarding the action taken by the	sarcastically	y and he is saying th	nat nothing is done it is
	Hon'ble NGT Bench Pune in 2014	obvious tha	t the complainant is a	habituate of making such
	after passing the final order for	complaints.	Ĩ	U
	banning the sponge iron factories.	• He is ther	efore removed from	the complaint and the
	MPCB vide letter O.No.	enquiry wil	l be conducted by me	suo moto".
	MPC/ROC/579/2022 dated	• The Final	hearing was held on	13th January 2023, and
	11.11.2022 has stated that "the office	during the h	nearing representative	of state pollution Control
	of MPCB Chandrapur visited the	board and	the Llovds Metals a	nd Energy limited were
	industry on $01/08/2022$ As per the	present Ho	norable Lokavukta in	the court disposed off the
	error during the inspection raised a	case withou	it any penalty	and court ansposed on the
	show cause notice was issued to the	Details of the	Case.	
	industry dated 04/08/2022 Also	Details of the	<u>Particulars</u>	Romarks
	Proposed directions were also issued	13 01 2022	Letter from	The Lokavukta
	vide letter dated 13/09/2022 by the	13.01.2022	Honorable	Maharashtra direct
	board On the said directive the		Lokavukta	State Pollution Control
	industry submitted its compliance		Maharashtra to	board to inform
	report to this office vide letter dated		State Pollution	complainant and
	14/09/2022 This office visited to the		Control Board	others about the online
	industry on dtd 10/11/2022 to verify		keeping Lloyds	boaring on 7th April
	the compliance of the industry "The		Motols and Energy	nearing on 7th April
	EAC is of the opinion that		Limited in CC	2022.
	PP/Consultant shall submit the	12.04.2022	Limited in CC.	
	summary of the age with the latest	13.04.2022	Letter from	The Lokayukta
	summary of the case with the latest		Honorable	Manarashtra direct
	The EAC also advised DD/Consultant		Lokayukta	State Pollution Control
	The EAC also advised PP/Consultant		Maharashtra to	board to inform
	to give the details of details of other		State Pollution	complainant and
	case, if any against the instant		Control Board for	others about the online
	project.		hearing.	hearing on 11 th May
				2022.
		26.05.2022	Letter from	-
			Honorable	
			Lokayukta	
			Maharashtra	
			Lloyds Metals and	
			Energy Limited for	
			hearing on 8th	
			August 2022.	
17.	Representations have been received	The EAC/Mi	inistry has received	d representation dated
	through email dated 13.01.2023 and	13.01.2023 &	16.01.2023.	
	16.01.2023 requesting for stay in the			

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	grant of Environment Clearance on	Point wise clarification and compliances is submitted by the
	multiple issues raised pertaining to	PP, as below.
	the said project. The EAC is of the	
	opinion that the project proponent	
	shall submit the pointwise	
	clarification on the issues raised in	
	the representation dated 13.01.2023	
	and 16.01.2023. The EAC advised	
	the Ministry to forward the	
	representation to project proponent	
	for their clarification. In this context,	
	representation has been forwarded to	
	PP.	
Sr.	Points	Compliance
No.		
1.	The objector is a society registered under the Societies Registration Act, having Registration	e As per the OM No. J-11013/3/2010-IA.II(1) dated 15 March 2010 published by Ministry of Environment Forest and Climate Change
	No.MH-298/2015. The Aim & Object of th	e New Delhi (copy enclosed) only 4 pockets of Chandrapur District (Sr.
	Objector Society is to protect environment	t No. 4 in the list) i.e. 1. MIDC Chandrapur, 2. Tadali, 3. Ghugus, 4.
	throughout the length and breadth of	f Ballarpur are declared as Critically Polluted Industrial Areas and
	Maharashtra and more particularly in	n Clusters with CEPI score of 83.88. Entire Chandrapur District is
	the most polluted district of India. As you	r As per order passed by Honorable National Green Tribunal.
	good-selves are well aware, Chandrapur is a	t Principal Bench, New Delhi on 10 th July 2019 against Original
	Sr.No.15 in the National Index of mos	t Application no. 1038/2018, Chandrapur is Sr. no. 27 in the list with
	polluted districts and at Sr.No.5 of	f improved CEPI score 76.41. copy of order is enclosed.
	Maharashtra State Index of most polluted District Additionally there is mushroor	A As per secondary data and our information there are no major industries proposed in Chugus area. Only expansion in Lloyds Metals
	growth of industries in Ghugus area and	d & Energy Ltd is proposed.
	therefore, permission to install the furnac	e The proposed expansion will be carried out in existing premises to
	and rolling mill in Ghugus would cause lot of	f produce long product. The major raw material for proposed unit will
	pollution.	be available from existing operational sponge iron unit & shall be
		scrap liquid steel is transferred to rolling mill through ladle and
		caster to produce long products. No reheating or additional fuel will
		be used. By transporting DRI through conveyor belt, shall reduce the
		emission caused due to movement of trucks. GLC for PM is 1.03
		$\mu g/m^{\circ}$ after expansion when superimposed on the baseline
		pollution is not based on facts.
2.	The objector is intensely opposing th	e Previous months reports are attached which shows that AAQ and
	proposed project since it would cause huge ai	r stack monitoring results of Lloyds Metals & Energy Ltd are within
	and rural areas of Ghugus and it	y umu. s 1 AAO under NAMP Station is installed at Office of Municipal
	surroundings. The concentrations of PM_{10}	, Council Ghugus, Tal. Dist. Chandrapur. As per the report the air
	$PM_{2.5}$, SO_2 , NO_X are not at all within the	e quality is moderate in January 2023 except on 18.01.2023. copy of
	National Ambient Air Quality Standard. Th	e report is enclosed. It is to be noted that the location of this AAQ
	PM_{10} of the surrounding area where the	e under NAMP is at 0.8 km from nearest boundary of LMEL and in

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	project is proposed to be started is more than 100 UG/M ³ . Likewise, $PM_{2.5}$ is more than 60 UG/M ³ , SO_2 is more than 80 UG/M ³ and NO_X is also more than 80 UG/M ³ . This clearly demonstrates that the concentrations are not within the National Ambient Air Quality standard. The Air quality allegedly monitored by the project proponent at 8 locations are not only unreal but false. No details and specifications of such locations have been mentioned by the project proponent in the executive summary. Thus, the locations are farce and imaginary. The impacts on air quality would be huge. Even the emissions released from the stack during the operation will cause severe air pollution and would hugely impact the air quality. The fugitive dust emissions from raw materials handing areas would be extremely high.	middle of densely crowded area of Ghugus town with huge local transportation and other activities. Distance of nearest boundary of WCL railway siding is 0.4 km from AAQ under NAMP, distance of nearest truck parking yard of ACC cement is 0.44 km from AAQ under NAMP, distance from major bus stand and taxi stand of the town is at 0.4 km from AAQ under NAMP and distance from check post of WCL truck loading is at 0.75 km from AAQ under NAMP. From above facts it is evident that there are number of sources contributing the air quality index of Ghugus town. Locations of above mentioned sources marked in google map is enclosed The details and selection criteria of AAQ monitoring station are mentioned in EIA report chapter no. 3 page no. 75. Copy of same is enclosed. All details as desired are mentioned in EIA reports which were also circulated as per norms. The details are also mentioned in the Executive Summary in English & Marathi. There are 2 major raw materials to be used in proposed project. One raw material i.e. Sponge Iron Will be transported by closed conveyor belt from in house Sponge Iron Plant. Second raw material will be M.S. Scrap.		
3.	In view of the aforesaid factual scenario, the objector submits that the project proponent is not taking all measures to effectively control the air emissions and periodic monitoring of the stack emissions. The project proponent is taking no care and mitigation measures to control the Air emissions in the existing TPA Sponge Iron plant, coal washery and power plant.	 M.S. Scrap. It is to be noted that M.S. Scrap is not in powder form and does not add any fugitive emission from raw material handling area. Lloyds Metals & Energy Ltd. invested about Rs. 1360.75 lacs for upgradation/replacement of existing Pollution Control System in year 2021-22. Detailed activities carried out are mentioned in a letter to Regional Officer, Maharashtra Pollution Control Board, Chandrapur on 31.03.2022. copy of the letter is enclosed. All precautions have been taken to minimize the pollution level due to exiting plant. It is to be noted that all process stacks in operational unit are equipped with OCEM systems and 2 continuous AAQ monitoring stations are installed and they are connected to MPCB/CPCB Server. In addition to this monthly AAQ, stack monitoring is being carried out by MoEF&CC and NABL accredited Laboratory as per Consent to Operate Conditions and submitting the monthly reports to MPCB. 		
4.	Likewise, the water samples have not been analysed by project proponent in terms of EIA Notifications, 2006 and they are not as per the standard methods for analysis of water and waste water, APHA publication. In reality, the project if allowed to operate, would cause severe damage to water environment. The proposed project would also cause much impact on water in as much as the water requirement for the proposed project would be sourced from Wardha river, which itself is hugely polluted at present. There will be huge discharge of waste water too and such industrial waste water would be causing severe damage to the locality.	The samples of Surface water (8 nos) and Ground water (8 nos) are collected and analysed as per standard methods for the examination of water and wastewater, published by APHA, AWWA, 22nd Edition, 2012. The results are given in EIA report chapter 3 Page no 88-93. The project has been designed based on ZERO discharge principle. The water is mainly consumed for machinery / equipment cooling (direct & Indirect). Waste water generated shall be treated and reused for relevant use. There will be no discharge of treated or untreated water from plant outside the plant boundary.As per the NGT order dated 10 th July 2019 Chandrapur is CPA with		

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	operate, there shall be no monitoring a ground water level and its quality as well a quantity. In the circumstances, the citizen would be deprived off good quantity an quality of water mainly in summer seasor where citizens are already facing tonnes of problems of clan and unpolluted water as we as the citizens are, at present, not gettin appropriate quantity of water. Resultantly, the consent to operate the proposed project is granted. It is the citizens who would be th wickedest sufferers. In summer season an pre-monsoon season, the village wells go dr on account of scarcity of water. If th proposed project is allowed to operate, th nearby villages would additionally suffer o account of Wells going dry due to dewatering in addition, there will be a huge problem of sewage on account of waste water.	 f critical air quality but normal water and land quality with CEPI score 23.75 for both. Copy of NGT order is enclosed. s We have applied for additional water requirement to irrigation department. We do not have any proposal to use ground water. Our plant is zero liquid discharge plant. 1 piezometer will be installed in Municipal Council Premises with their permission to monitor ground water level. g RWH structures are provided to harvest the rain water from around the plant area and roof top. The collected rain water is being utilized for plant use to minimize the raw water requirement. e During summer LMEL provides drinking water facility free of cost to nearby villages through Nagar Parishad. 		
6.	sewage on account of waste water. Even noise levels at present for residential area of Ghugus are much above the prescribed limitation of 55 (db)(A) for residential area and 75 (dB)(A) for Industrial area. The existing noise environment is enormously dangerous and noise levels ar beyond the limits of given in MOES gazette notification for National Ambient Noise Leve Standard. As such, if the project is given gree signal, the same would add to the woes of public who are already facing severe noise pollution. If the project, major noise arisin, out of electric motors, loading section etc would cause severe noise pollution and impact of noise levels on the surrounding will b extremely significant causing severe noise pollution. The noise due to vibration etc would be so huge that the residents of nearb areas would suffer terribly.	 It was observed that in the study area, noise levels ranged from 34.5 - 54.8 dB (A) at all eight stations. To achieve the far field noise limitations, various noise generating equipment's are fitted with appropriate devices to control the noise levels e.g., steam vent pipes shall be fitted with silencers; bypass valves, the de-super heater and the relevant piping are covered with acoustic insulation, feed water pump sets are covered by separate enclosure., In addition, reduction in noise levels in the high noise machinery area will be achieved by adoption of preventive measures such as proper building layout in which the equipment are to be located, adding sound barriers, use of acoustics enclosures with suitable absorption material, etc. in proposed plant. The noise levels will not exceed the standards stipulated by Central Pollution Control Board at any point of time. The equipments will have inbuilt noise control devices. The measured noise level produced by any equipment will not exceed 85 dB(A) at a distance of 1.0-m from its boundary in any direction under any load condition. The noise produced in valves and piping associated with handling compressible and incompressible fluids will be attenuated to 75 dB(A) at a distance of 1.0 m from the source by the use of low noise trims, baffle plate silencers/line silencers, acoustic lagging (insulation), thick walled pipe work as and where necessary. All PPEs like ear plugs, helmets, safety goggles, safety shoes, hand gloves, fire suits, safety harness belts, night reflector jackets, nose mask etc. are provided to all workers, labours, staff in existing plant & will be provided in proposed expansion also. 		
7.	The proposed project would also be cause of concern for even the land environment. Th soil conditions around the proposed project site are already beyond the prescribed limits.	 f As per the NGT order dated 10th July 2019 Chandrapur is CPA with e critical air quality but normal water and land quality with CEPI t score 23.75 for both. Samples collected from different land use classifications indicating all the major nutrients were present, namely, Nitrogen's presence is average, phosphorus is good in quantity and 		

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		potassium is less to average in quantity. The proposed expansion will be carried out in existing and in possession MIDC land which is in industrial use since 1994-95. There will be no dumping of any solid waste which can affect the soil condition around the proposed project.
8.	Even the Impact would be on biological environment if the project proponent is allowed go ahead with the project. The fugitive emissions and transportation activity would impact the terrestrial flora. The settlement of dust on the laminar surface of plants would definitely affect the productivity of plants and would cause severe impact of ecology in the area which is almost dry now Solid waste generation would also be ver huge and the project proponent has not give any good proposal for solid waste management and mitigation measures. The solid waste such as char, bottom ash, fly ash dust from ESP, Washery reject etc. would be very huge and no mitigation measures are quired by law and even been suggested be the project proponent.	 It is to noted that there are about 1,05,000 nos of trees are planted & well grown is plant premises 51% i.e. 47 Ha of total land is developed as thick green belt area in existing operational plant. In addition to this about 15000 nos more trees of about 6 ft height) also proposed to plant to improve the density of plantation. The emissions from the Induction furnaces will be sucked through suction hoods and will pass through a fume extraction system with bag filters and y then the treated fumes will be discharged into the atmosphere through 2 no. of stacks each of 42 m height to 3 x 30 T Induction Furnaces for effective dispersion of emissions into the atmosphere. The outlet dust emission in the exhaust gases will be less than 30 mg/Nm3. The solid waste from the proposed will be slag from IF furnace and tail cuttings from Rolling Mill. Slag will be crushed for recovery of s iron for reuse in IF. Crushed slag will be used in brick manufacturing, hardening of working area. Slag analysis report is enclosed. 100 % tail cuttings from rolling mill will be reused in IF. The solid waste from operational plant is being regularly disposed/reuse scientifically. Details of generation and disposal of solid waste from existing and proposed units are enclosed.
9.	The project proponent is guilty of not carryin out the environmental monitoring on regula basis in accordance with the CPCB guideline for the existing project itself. There is m Ambient Air Quality, water quality and nois environment monitoring being one by the project proponent for the existing project also Therefore, the measures suggested by the project proponent for the proposed project an just and eyewash.	g It is to be noted that all 4 process stacks in operational unit are equipped with OCEM systems and 2 continuous AAQ monitoring stations are installed and they are connected to MPCB/CPCB Server. Results of OCEMs are enclosed. Results of CAAQMS are enclosed. In addition to this monthly AAQ, stack monitoring is being carried out by MoEF&CC and NABL accredited Laboratory as per Consent to Operate Conditions and submitting the monthly reports to MPCB. Copies of last 2 months environmental monitoring by NABL accredited and MoEF&CC recognized laboratory is enclosed.
10.	If the proposed project is permitted to b operated, the objector submits that it would b wholly against the letter and spirit of Environmental Impact Assessmen Notification, 1994 and subsequen amendments thereto. The proposed project would also cause huge inconvenience to the citizens of Ghugus.	 It is clear from the EIA report that the proposed project will not cause any significant impact on the surrounding area, as adequate mitigative measures will be implemented so that the all the parameters will remain within the prescribed standards. The existing plant is in operation with Environmental Clearance from respective authority and with Valid Consent to operate. Due to existing operational plant and proposed plant additional employment will be generated for local people which will definitely improve living standard of local people. In addition to this Rs. 13.1 Cr. will be spent in three years on various social development activities in an around Ghugus The proposed expansion will be initiated only after grant of EC and Consent to Establish.
11.	sundry that the proponent never uses dela	y configuration of the proposed project. This issue is related to mining

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	detonators for blasting and therefore no	industry. There will be no mining activity in existing and proposed			
	mitigation measures for control of ground	units.			
	vibration are taken by the proponent.				
12.	There is no progressive Afforestation Plan	This issue is also related to mining industry. There is no tree cutting			
	proposed to be implemented by proponen	involved in existing and proposed units. This also seems copied from			
	along with roads and Infrastructure as well as	somewhere without looking at the location and nature of the project.			
	the embankment and vacant land. Therefore	Out of the total area, green belt development is done in 47.7 ha (51%)			
	such a project if allowed to operate, would	of plant area of A-1 & A-2 in MIDC Ghugus. The plant is in			
	escalate the problems of pollution being	operation since 1994-95 and 2,34,650 nos. of trees are planted and 1.05,000 nos, surplus d till date. Eventher over filling			
already hugely faced by the citizens.		1,05,000 nos. survived till date. Further gap filling			
		will be done. About 15000 nos. of trees will be planted.			
12		Avenue plantation will be done in near by villages under CER.			
13.	when it is a familiar fact that Ghugus MIDC	It is noted that there are only 2 industries are installed & in operation			
	area is already nugely air polluted on account	in Gnugus MIDC, one is LMEL & second is ACC Cement.			
	by various industries being operational, i	Adequate mitigative measures will be jonowed in proposed expansion			
	project is permitted to operate	standards			
14	The residents of the locality and nearby	As par the periodic medical examination done for the workers none of			
17.	villages would suffer respiratory and dus	our workers are found to be suffered from any respiratory and dust			
	problems, thereby causing asthmatic and	generated problems.			
	other chest infection diseases. Which are	The detailed report is enclosed. It is for kind information that all our			
	already ben suffered by them on account o	workers, staff and their families are staying in Ghugus and near by			
	existing industries including that of the	villages.			
	proponent. In this Covid-19 pandemic era, i	Occupational health center is in operation in plant for workers,			
	is a well-known scenario that people suffering	labours & their family. LMEL is conducting health check up of all its			
	from respiratory problems are more prone to	employees including all workers through Government approved			
	getting infected with Covid-19 and many such	Hospitals.			
	people have lost their lives. In such a	In additional to this it is proposed to spend Rs. 2.10 Crores towards			
	situation, the objector is sure that the projec	t various Health Programme in social welfare activities.			
	would not be approved at the cost of lives of several innocent citizens.	<i>f</i> 1. <i>Rs.</i> 90 lacs towards provision of 2 ambulance and 1 funeral vehicle.			
		2. Rs. 30 lacs towards health camp including medicine in Ghugus and surrounding villages.			
		3. Rs.60 lacs towards improvement in PHC of nearby villages.			
		4. Rs.30 lacs towards provision of medical equipment to elderly			
		people in Ghugus and nearby villages.			
		This amount will be spent in 3 years. 80% of the amount will be spent			
		in 1^{st} year and balance 20% in 2^{na} and 3^{ra} year.			
15.	Not only this the Objector submitted its	The objector has not attended the Public Hearing & regarding			
	objection in the public hearing, deliberately	submission of any objection to authority is not known.			
	the Objector's objection is not sent by the				
16	The objector is herewith enclosing the				
10.	documents which shows that Hoyds Metal				
	were given various stringent directions which				
	demonstrates that the Llovds Metals is guilty	,			
	of polluting the environment and is already ar				
	Industry which is major cause of pollution				
	The details of the same are as under:-				
	1) On 01.04.2014 Maharashtra pollution	It is very surprising that the objector was well known in advance i.e.			
	Control Board informed Lloyds Metals	on 01.04.2014 about the Honorable National Green Tribunal order			

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order dated 14.05.2014 that a team comprising of MPCB & CPCB had visited the premises of Lloyd Meal and hat after inspection it was found that pollution emission are exceeding the consented standards. The said Committee after joint commission had given recommendation to minimize the On 16.05.2014 Honorable NCT passed the order to close the case. Copy of order is enclosed as Annexare XX with FIA report. 2) Vide letter dated 23.04.2015 again Lloyd Metals were directed to compils with the recommendation to minimize the discommendation to minimize the the inspection done as stated above. Copy of letter dated 23.04.2015 issued by Maharashtra Pollution Control Board is enclosed. 3) Vide letter dated 02.002.2018 (order Lloyd Metals to comply with the directions of inspection dated 09.01.2018 and warned that electricity and watter supply would be disconnected. Copy of letter dated 07.02.2018 Issued by Maharashtra Pollution Control Board is enclosed. 4) Again on 22.02.2018 conditional directions were issued by Maharashtra Pollution Control Board to Lloyds Metals and directed to take necessary steps as metioned in the acid stringent actioned in the stringent fulling with the Board shall take stringent action to gainst Lloyds Metals. 5) On 66.05.2022 Maharashtra Pollution Control Board has informed Hon Wets. MPCB has submitted their reply on 06.05.2022 to Honorable Lokkywkit Maharashtra Pollution Control Board is enclosed. 5) On 66.05.2022 Maharashtra Pollution Control Board has informed Hon Wetsthis, nothing survives in the order issued by Honorable			& Engineering Ltd. that Hon'bl National Green Tribunal has passed a	e dated 14.05.2014.			
comprising of MPCB & CPCB had visited the premises of Lloyd Metal and that after inspection it was jound that pollution emission are exceeding the consented standards. The said Committee after joint commission had given recommendation to minimize the NGT time to time. 2) Vide letter dated 23:04:2015 again Lloyd Metals were directed to comply with the recommendation made after the inspection done as stated above. Copy of letter dated 23:04:2015 issued by Maharashtra Pollution Control Board is enclosed. 3) Vide letter dated 07:02:2018 Maharashtra Pollution Control Board directed Lloyds Metals hove. Copy of letter dated 07:02:2018 issued by Maharashtra Pollution Maharashtra Pollution Control Board directed Lloyds Metals to comply with the directions of inspection dated disconnected. After complying all the conditions, on 22:02:2018 Maharashtra Pollution Control Board is enclosed. 4) Again on 22:02:2018 conditional directication against Lloyds Metals has not pollution Control Board is enclosed. After complying all the conditions, on 22:02:2018 Kabears cloure order dated 7:02:2018 Copy of letter 2:02:2018 Kabearshtra Pollution Control Board is anclosed. 5) On 06:05:2022 Maharashtra Pollution followed the direction to control the stringent action against Lloyds Metals has not followed the direction to control the string complaint give by Mr. Vinesh Kolwal. 5) On 06:05:2022 Maharashtra Pollution followed the direction to control the goard shail take stringent action against Lloyds Metals has not followed the direction to control the direction given by antional Green Trihunal have been followed and the remaining 0% directis swelb be compliant give by Mr. Vinesh Kolwal.			order dated 14.05.2014 that a tear	<i>n</i> However As per the recommendation of the committee modification			
visited the premises of Lloyd Metal and that after inspection it was found hits			comprising of MPCB & CPCB ha	d upgradation was carried out & reports were submitted to Honorable			
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operate for existing and operational plant wide letter no.				operate for existing and operational plant wide letter no.			
FORMULLU/CAC/UAN NO.MPCB- CONSENT - 0000123174/CO/2203001536 Dated 20.03.2022 and walld up to				TOTMULLO/CAC/DAN NO.MFCD- CONSENT - 0000123174/CO/2203001536 Dated 20.03.2022 and yalid up to			
31 12 2023 conv of renewed consent to operate is enclosed				31 12 2023 copy of renewed consent to operate is enclosed			
Maharashtra Pollution Control Board issued consent to establish for				Maharashtra Pollution Control Board issued consent to establish for			

Sl.	ADS raised by EAC	Submission of PP		
No.				
		expansion phase wide letter no. Format1.0/CAC/UAN No.0000110966/CE/2205000821. Dated 13.05.2022. Copy of consent to establish is enclosed.		
17.	The objector earnestly requests your good-sel to independently collect air, water and soi samples, which would definitely show that the existing index of the same are much beyond the prescribed limits. in such circumstances, i would be tremendously dangerous to allow the project proponent to go ahead with the proposed project. The objector submits that in view of mushrooming growth of industries in Ghugus there are severe environmental problems particularly issue related to air, water as well as noise pollution and they are of immediate concern. The objection has been rigorously following the said issue of environmental related problems in Ghugus area and in Chandrapur district and is seeking immediate action for amelioration of the situation, it is now need of the hour to stop granting environmental clearance to any new project unless and until the present situation regarding serious pollution in Ghugus area is accurately controlled.	 The data has been collected by MOEF&CC & NABL accredited laboratory. Regular monitoring is being carried out by MOEF&CC& NABL accredited laboratory. In addition 2 CAAQMS and 4 CEMS are installed & in operation with connection to MPCB & CPCB servers. All data's are within prescribed limit. Copy of latest Data of CAAQMS & CEMS are enclosed. As per secondary data and our information there are no major industries proposed in Ghugus area. Only expansion in Lloyds Metal & Energy Ltd is proposed. 		
19.	The objector submits that the summary of the project submitted by the proponent, is just imaginary. The figures and data submitted are only a fantasy. The environment management plan and the post project monitoring submitted by proponent is just with a view to obtain the environmental clearance at the cost of lives of citizens. The data placed by proponent is fully unsatisfactory and based or surmises and assumptions only. The proposal does not even prima-facie demonstrate that the detailed study has been undertaken by the proponent for seeking consent to operate Pollution Control Measures as required by settled standards are not reflected in the proposal. Taking into consideration the environmental impacts, the mitigation measures suggested by the proponent are extremely feeble and scrawny and therefore consent to operate cannot at all be granted The objector submits that no environmenta	The EIA report is prepared as per EIA Notification 2006 & its various amendment.		

Sl.	ADS raised by EAC	Submission of PP			
No.					
	granted on the strength of a proposal which	is			
	totally underserving and unworthy.				
20.	In fact, the proponent has made vague an	Ind The EIA report is prepared as per EIA Notification 2006 & its			
	irresponsible statements in the propos	al various amendment.			
	Authority as well as Government of Indi				
	Ministry of Environment and Forests with th				
	sole intention of obtaining environment	al			
	clearance by misleading the authorities.				
21. The objector wishes to point out that Hon'ble		le No comment			
	Supreme Court of India has time and aga	in			
	cautioned the Pollution Control Board as we				
as Environmental Clearance Authorities, not					
<i>to grant environmental clearance to such</i> <i>aspirants who intend to cause severe pollution</i>					
for the purpose of their commercial		al			
establishment/s.					
22. In the above circumstances, the objector is		is No comment			
	placing on record its objection with a reque	st			
to this Hon'ble Authority to grant persona hearing to the objector and the objector		al			
reserves right to place additional material in		or in			
support of this objection at the time of		of			
personal hearing and thereafter. The said		id			
	opportunity of hearing deserves to be granted	ed			
to the objector in view of specific provision of		of			
	hearing envisage them EIA Notification.				
23.	Thanking your good-selves in anticipation and	nd No comment			
	with the hope and trust that appropriate cognizance shall be taken in respect of the				
	present objection.				
18.	The EAC noted that the Date of	Mentioning the different date in brief has happened			
	Advertisement is wrongly given as	inadvertently. Proper care will be taken in future.			
	19 th June 2021 in the brief however				
	the actual date is 19 th April 2021				
	The EAC warned the PP/Consultant				
	to be careful while submitting the				
	information				
10	In view of above facts. EAC advised	Deviced ELA/EMD report is unleaded severing all the			
19.	DD to review the ELA/EMD report	information as desired in 21st masting of the Honorable EAC			
	PP to revise the EIA/EMP report	(Industrial)			
	covering all the desired information	(Industry I).			
	for further consideration.				
20.	The PP/Consultant agreed to the	Request the Honorable EAC (Industry-I) to reconsider the			
	suggestions of EAC and requested	proposal for further appraisal.			
	EAC to allow reappear after the				
	revision of the application				
	incorporating the desired				
	information.				

24.9.22 Based on the above submission of project proponent, the proposal is considered during 24th meeting of the EAC for Industry-I sector held on 28th February – 1st March, 2023. The deliberations and recommendations of the Committee are as follows:

Deliberations by the Committee

- 24.9.23 The Committee noted the following:
 - The instant proposal is for installation of Induction Furnace & Rolling Mill for production of Ingots, Billets 5,00,000 TPA and TMT Bars & Long product: 5,00,000 TPA (In addition to Existing 3, 24,000 TPA Sponge Iron Plant, 0.216MTPA OR 150 TPH Coal Washery & 25 MW Power Plant). Further, company has decided to drop the installation of the 2 X 9 MVA Submerged Arc Furnace permitted for production of 25,000 TPA Ferro alloys in the ToR dated 10.02.2020.
 - 2. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.
 - 3. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.
 - 4. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.
 - 5. The existing projects for sponge iron manufacturing plant was accorded the NOC vide lr.no. Env (NOC)2005/747/CR.97/D.I, dated 28th December 2005, for coal washery environmental clearance was accorded vide lr.no. J-11015/272/2007-IA.II (M) dated 9th April 2008 and for waste Heat Recovery Based Captive Power Plant of 25 MW capacity environmental clearance was accorded vide lr.no. J-13012/123/07-IA-II dated 12th October 2009. Consent to Operate was accorded by Maharashtra State pollution Control Board vide lr. no. Format1.0/CAC/UAN No. MPCBCONSENT-0000123174/CO/2203001536 validity of CTO is up to 31.12.2023.
 - The proposed project falls in the Critically Polluted Area of Chandrapur as notified by Central Pollution Control Board (CPCB). The EAC deliberated on the revised compliance of the conditions as per Ministry's guideline dated 24th October 2019 and found it satisfactory.

- 7. Total land leased by MIDC to M/s Lloyds Metals & Energy Limited (LMEL) is 93.52 ha in which plot no. A-1 is 4.00 ha & A-2 is 89.52 ha. The land use of project site is industrial land and is acquired by project proponent. No Additional land is required.
- 8. The nearest habitation to plant is Ghugus village located at 0.5 km away from the project site boundary in North direction. The EAC deliberated on environmental safeguard measures undertaken to minimise the impact on the habitation of the locals and found it satisfactory. Further, PP has advised to strengthen the greenbelt layer towards the village.
- 9. There are two natural drainages passing through project site. Anuradha Lake (620 m, W), Wardha River (2.5 Km, SW), Nirguda Nala (3.0 Km, SSW), Penganga River (5.0 Km, SE) and Sarai Nala (6.5 Km, NE) are flowing within 10 Km. radius of the plant site. The EAC deliberated on the drainage conservation plan and found it satisfactory.
- 10. The existing water requirement is 2674 m³/day, which will be sourced from Wardha River. The water requirement for the proposed project is estimated as 1627 m³/day, will be sourced from Wardha River and an agreement has been signed with Irrigation Department, Chandrapur for supply of water. PP has also clarified that water requirement for the proposed project is 1627 m³/day as per the PH documents & EIA/EMP report.
- 11. Existing green belt has been developed in 47.7 ha. area which is about 51% of the total project area of 93.52 ha., 2,34,650 nos. of trees are planted and 1,05,000 nos. survived till date. Further gap filling will be done. About 15000 nos. of trees will be planted. Further PP has submitted an undertaking dated 30.01.2023 for ensuring gap filling of existing plantation within six months along with greening and paving in plant area and approsach road from SH to Main gate of the plant. The EAC deliberated on the greenbelt action plan and found it satisfactory.
- 12. The Committee has found that the baseline data and incremental GLC due to the proposed project and the mitigation measures proposed by the propoject proponent and is of the opinion that regular monitroitng shall be carried and stringent measures shall be undertaken to keep all the parameters within NAAQ standards.
- 13. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
- 14. The Committee also deliberated on the public hearing issues along with revised action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.
- 15. The EAC noted that there is Lokayukta Maharashtra State Complaint No.: LA/COM/3729/2021 (T-6) dated 10.11.2021 filed regarding the action taken by the Hon'ble NGT Bench Pune in 2014 after passing the final order for banning the sponge iron factories. MPCB vide letter O.No. MPC/ROC/579/2022 dated 11.11.2022 has submitted its statement. The PP further has submitted that the Final hearing was held on 13th January 2023, and during the hearing representative of state pollution Control board and the Lloyds Metals and Energy limited were present. Honorable Lokayukta in the court disposed off the case without any penalty.
- 16. The Committee deliberated upon the certified compliance report of IRO and action taken report submitted by PP with respect to the partial/non complied conditions alongwith review report of IRO and found it satisfactory.
- 17. The EAC deliberated on the ADS reply of project proponent on the issues raised during 21st EAC meeting and found it satisfactory.

- 18. The EAC deliberated on the pointwise clarification on the issues raised in the representation dated 13.01.2023 and 16.01.2023 requesting for stay in the grant of Environment Clearance and found it satisfactory. The EAC also observed that the mitigation measures as raised in the representations has already been included in the EIA/EMP Report. The EAC is of the view that the PP shall implement all the mitigation measures and strict compliances.
- 19. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.
- 20. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, operation of the project.

Recommendations of the Committee

24.9.24 In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal for grant of Environment Clearance **subject to uploading** the written submission on Parivesh Portal under the provisions of EIA Notification, 2006 subject to stipulation of following specific conditions and general conditions as per the Ministry's Office Memorandum No. 22-34/2018-III dated 9/8/2018 based on project specific requirements:

A. Specific conditions:

- (i) The project proponent shall abide by all the orders and judicial pronouncement, made from time to time pertaining to Lokayukta Maharashtra State Complaint No.: LA/COM/3729/2021 (T-6) dated 10.11.2021 filed regarding the action taken by the Hon'ble NGT Bench Pune in 2014 after passing the final order for banning the sponge iron factories.
- (ii) The PP shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (iii) The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (iv) The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing

more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.

- (v) In pursuance to MoEF&CC OMs dated 31st October, 2019 & 30th December, 2019 issued in compliance of the order of Hon'ble NGT in OA No. 1038/2018 dated 19th August, 2019, the compliance of all the conditions applicable to CEPI shall be implemented as per the submitted plan.
- (vi) The nearest habitation to plant is Ghugus village located at 0.5 km away from the project site boundary in North direction. Project Proponent shall implement the action plan for environmental safeguard measures to minimise the impact on the habitation of the locals as submitted. The company shall also include this location in its environmental monitoring programme and strengthen the greenbelt layer towards the village.
- (vii) There are two natural drainages passing through project site. Anuradha Lake (620 m, W), Wardha River (2.5 Km, SW), Nirguda Nala (3.0 Km, SSW), Penganga River (5.0 Km, SE) and Sarai Nala (6.5 Km, NE) are flowing within 10 Km. radius of the plant site. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
- (viii) The water requirement for the proposed project estimated as 1627 m³/day, shall be sourced from Wardha River after obtaining necessary permission from the Competent Authority. No ground water abstraction is permitted.
 - (ix) As commited, PP shall adopt two villages namely Usgaon and Mathardevi. PP shall implement village Adoption program consisting of need-based community development activities, to develop them into model villages.
 - (x) Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.
 - (xi) Three tier Green Belt shall be developed in a atleast 50% of total project area as per the submitted action plan with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. Gap filling of existing plantation shall be completed within six months as per the commitment. PP shall develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy alongwith windshield inside the plant premises to act as green barrier for air pollution & noise levels towards Ghugus villages. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
- (xii) The PP shall construct a Wind shield/ Acoustic barrier besides three rows of tall thick, broad leaved evergreen tree species in order to protect the villagers from dust and noise pollution.
- (xiii) Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.
- (xiv) Rejects from coal washery shall only be used either in the captive power plant (or) in the Thermal Power Plants meeting emission standards.
- (xv) Solid waste utilization

- a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making.
- b. PP shall recycle/reuse solid waste generated in the plant as far as possible.
- c. Used refractories shall be recycled as far as possible.
- (xvi) Following additional arrangements to control fugitive dust shall be provided:
 - a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas.
 - b. Proper covered vehicle shall be used while transport of materials.
 - c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.
- (xvii) Fourth hole extraction shall be provided in the furnaces to control secondary emissions.
- (xviii) Secondary fume extraction system shall be installed on converters of Steel Melting Shop.
- (xix) 100% of molten billets shall be rolled directly in hot stage. There shall be no installation of Re-heating furnace.
- (xx) Wind breaking walls around the storage area and covered storage area for material transportation and paved roads shall be provided.
- (xxi) Housekeeping of the plant area shall be improved.
- (xxii) Dust emission from all the stacks shall be less than 10 mg/Nm^3 .
- (xxiii) Air Cooled condensers shall be used in the captive power plant.
- (xxiv) During operational phase at Captive Power Plant, PP shall measure coal dust exposures and to maintain coal dust exposures within stipulated standards at coal handling areas. PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.
- (xxv) Action Plan for fire fighting system including provision for flame detectors, temperature actuated heat detectors with alarms, automatic sprinkler system, fixing the location of fire water tanks, separate power system for fire fighting, involvement of qualified and trained fire personnel, nearest fire station & time required to reach the proposed site shall be prepared and implemented.
- (xxvi) Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.
- (xxvii) The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. MSW waste shall be treated in digester and recovered gas shall be used in the canteen.
- (xxviii) A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
 - (xxix) All the commitments made to the public during the Public Hearing/Public Consultation shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
 - (xxx) The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has

issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.

(xxxi) The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.

B. General conditions

I. Statutory compliance:

i. The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 04 Nos. Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- iii. Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.
- iv. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
- v. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.

- vi. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- vii. Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.
- viii. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
- ix. Facilities for spillage collection shall be provided for coal and coke on wharf of coke oven batteries (Chain conveyors, land based industrial vacuum cleaning facility).
- x. Land-based APC system shall be installed to control coke pushing emissions.
- xi. Monitor CO, HC and O2 in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber.
- xii. Vapor absorption system shall be provided in place of vapour compression system for cooling of coke oven gas in case of recovery type coke ovens.
- xiii. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
- xiv. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.

III. Water quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- iii. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- iv. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
- v. Tyre washing facilities shall be provided at the entrance of the plant gates.
- vi. Water meters shall be provided at the inlet to all unit processes in the steel plants.

IV. Noise monitoring and prevention

i. Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.

V. Energy Conservation measures

- i. Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.
- ii. Restrict Gas flaring to < 1%.
- iii. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
- iv. Provide LED lights in their offices and residential areas.
- v. Ensure installation of regenerative/recuperative type burners on all reheating furnaces.

VI. Waste management

- i. Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.
- ii. Kitchen waste shall be composted or converted to biogas for further use.

VII. Green Belt

- i. Green belt shall be developed in an area equal to 33% of the plant area with native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant
- ii. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration by trees in the plant premises.
- iii. Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitorable with defined time frames.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.
- iii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

IX. Environment Management

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020.
- ii. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating

procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholder's / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.

X. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- x. The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report

etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.

- xi. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiv. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xv. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Consideration in Terms of Reference Proposals

Agenda No. 24.10

Proposed expansion of existing Steel Plant for replacement of existing 2x7 T Induction Furnaces by 2x15 T Induction Furnaces, installation of new 2x15 T Induction Furnaces with 6/11 three strands Continuous Casting Machine (2,00,000 TPA Billets) & 1x15 TPH Slag Crusher unit, 1x30 T capacity AOD and Hot Rolling Mill (450 TPD) for production of TMT Bars, Wire Rod, Structure with 1x15 TPH Reheating Furnace (reheating by Piped-Gas or Coal or 1x45,00,000 Kcal/hr capacity Coal based Gasifier) by M/s CRM Ispat Private Limited, located at Bamunara Industrial Area, Village Bamunara, P.S. Kanksa, P.O. Gopalpur, District Paschim Bardhman, West Bengal – Consideration of TOR.

[Proposal No. IA/WB/IND1/408712/2022; File No. IA-J-11011/73/2023-IA-II(IND-I)] [Consultant: Envirotech East Pvt. Ltd ; Valid upto: 25.03.2023]

24.10.1 M/s. CRM Ispat Private Limited has made an application online vide proposal no. IA/WB/IND1/408712/2022 dated 14th February, 2023 along with the application in prescribed format (Form-I), copy of pre-feasibility report and proposed ToRs for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at Sl. No. 3(a) Metallurgical Industries (Ferrous and Non-ferrous) under Category "B1" of the schedule of the EIA Notification, 2006 and attract general condition as proposed project site falls within 5 km from the boundary of Durgapur Municipal Area i.e Severely Polluted Area and therefore appraised at Central Level.

24.10.2 Name of the EIA consultant: M/s. Envirotech East Pvt. Ltd. [List of ACOs with their Certificate / Extension Letter No: QCI/NABET/ENV/ACO/22/2625 valid till 25.03.2023, as on February 27, 2023].

Details submitted by Project proponent

24.10.3 The project of M/s CRM Ispat Private Limited located at Bamunara Industrial Area, Village Bamunara, P.S. Kanksa, P.O. Gopalpur, District Paschim Bardhman in West Bengal is for expansion of existing steel plant for production of 0.1485 MTPA TMT Bars, Wire Rod, Structure.

24.10.4	Environmental	site	settings:
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S. No.	Particulars			Details		Remarks
i.	Total Land	Proposed 1	replac	ement and	expansion project	
		shall be inst	shall be installed on the available land, within the			
		existing pla	ant pr	emises comp	prising of total 4.0	
		Hectares (9	.9 acr	es) of land.		
ii.	Land acquisition	Land is acq	uired	by the Compa	any.	
	details as per					
	MoEF&CC O.M.					
	dated 7/10/2014					
iii.	Existence of	Project Site : Village Bamunara			No R&R	
	habitation &				issue	
	involvement of	Study Areas				involved in
	R&R, if any.	Habitation	n	Distance	Direction	the proposed
		Durgapur		8.0 km	North-west	project
		Steel City f		from the		
		Project site				
iv.	Latitude and	POINT LATITUDE LONGITUDE				
	Longitude of all	A 23°29'55.97"N 87°22'3.54"E				
	corners of the	B 23°29'55.10"N 87°22'8.50"E		87°22'8.50"E		
	project site.	C 23°29'47.06"N 87°22'8.05"E				
		D 23°29'50.63"N 87°22'2.03"E				
v.	Elevation of the	74 m above mean sea level (AMSL).				
	project site					
vi.	Involvement of	No forest la	nd is	involved in th	ne project site.	
	Forest land if any.					
vii.	Water body	River Damodar is passing about 6.0 km distance				
	(Rivers, Lakes	in south direction w.r.t the project site in the				
	Pond, Nala, Natural	study area.				
	Drainage, Canal					
	etc.) exists within					
	the project site as					
	well as study area					
viii.	Existence of ESZ/	Nil.				
	ESA/ national park/					

S. No.	Particulars	Details	Remarks
	wildlife sanctuary/		
	biosphere reserve/		
	tiger reserve/		
	elephant reserve		
	etc. if any within		
	the study area		

24.10.5 The existing project was accorded Consent to Establish vide Memo No. 516 - 2N - 136 / 2006 (E) dated 01.08.2006 for installation of Induction Furnaces (2x7 T) for production of 4117 TPM M.S Ingots (Project Cost: Rs. 6.87 Crores). The plant was implemented after getting NOC from WBPCB as per the prevailing notification (published in the year 1994) of MoEF&CC, as per which No Environmental Clearance (EC) was required for this project. Consent to Operate for the existing unit was accorded by West Bengal Pollution Control Board vide Memo No. 49-7 / WPBD-Cont (2975)/06 dated 05.01.2023. The validity of CTO is up to 31.08.2027.

24.10.6 The ur	nit configuration	and	capacity of	of existing	g and	proposed	project	t is	given	as l	below:
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Unit	Units as per NOC dated 01.08.2006	Proposed Project	Ultimate Capacity
Induction Furnace	2x7 T Induction Furnaces (Ingots - 49,392 TPA (4116 TPM))	 Replacement of existing 2x7 T Induction Furnaces by 2x15 T Induction Furnaces (Liquid Steel - 99,000 TPA) (Billets - 97,500TPA). 2x15 T Induction Furnaces (New) (Liquid Steel - 99,000 TPA) (Billets - 97,500 TPA) along with Matching LRF, AOD (1x30 T) & CCM (2,00,000 TPA), 1x15 TPH Slag Crusher unit and Scrap baling machine (1x50 TPD). 	 4x15 T Induction Furnaces (Liquid Steel - 1,98,000 TPA) (Billets - 1,95,000 TPA) along with Matching LRF, AOD (1x30 T) & CCM (2,00,000 TPA), 1x15 TPH Slag Crusher unit and Scrap baling machine (1x50 TPD).
Rolling Mill with reheating furnace		450 TPD (1,48,500 TPA) capacity Rolling Mill for production of M.S.TMT, Wire Rod, Structural along with 1x15 TPH reheating furnace (reheating by Piped-Gas or Coal or 1x45,00,000 Kcal/hr capacity Coal based Gasifier).	450 TPD (1,48,500 TPA) capacity Rolling Mill for production of M.S.TMT, Wire Rod, Structural along with 1x15 TPH reheating furnace (reheating by Piped- Gas or Coal or 1x45,00,000 Kcal/hr capacity Coal based Gasifier).

Unit	Units as per NOC dated 01.08.2006	Proposed Project	Ultimate Capacity				
DG Sets	1x125 KVA *	25 KVA * 2X500 KVA 2X500 KVA					
* Note: Existing 1x125 KVA DG set will be replaced by proposed 2x500 KVA DG Sets.							
- Induction Furnace @10 heats per day in 330 working days							

24.10.7 The details of the raw material requirement for the proposed project along with its source and mode of transportation is given as below:

SI No	Raw Material	Annua	l Requirement (Sourco	Mode of			
51. INU		Existing *	Proposed	Total	Source	Transportation		
	4x15 T INDUCTION FURNACES							
1	Sponge Iron	-	1,80,000	1,80,000	Local Market	Road		
2	Pig Iron	-	30,000	30,000	Local Market	Road		
3	Scraps	-	42,000	42,000	Local Market	Road		
4	Ferro Alloys	-	1,550	1,550	Local Market	Road		
* Note: Replacement of Existing 2x7 T Induction Furnaces by 2x15 T Induction Furnaces.								

- 24.10.8 Existing Water requirement is 40 m³/day. The water requirement for the proposed project is estimated as 90 m³/day. Thus, total water requirement after expansion will be 130 m³/day. The permission for drawl of ground water is under process.
- 24.10.9 The total power requirement after expansion will be estimated as 25 MW which will be sourced from West Bengal State Electricity Distribution Company Limited (WBSEDCL).
- 24.10.10 The capital cost of the proposed expansion project is Rs. 75 Crores. The employment generation from the proposed project during operational phase will be 150 persons.
- 24.10.11 It is submitted that there is no violation under EIA notification 2006/no court cases/no show cause/no direction related to the project under consideration.

	24.10.12	Proposed '	Terms of Reference:	$[1^{s}]$	^t December	, 2022 to 2	28^{th}	February,	2023	(Winter	Season))]
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Attributes	Sam	Parameters		
	No. of Stations	Frequency		
A. Air				
a. Meteorological	1	Continuous on	Temperature, Relative	
Parameters		24-hourly basis	Humidity, Atmospheric	
			Pressure, Wind Speed, Wind	
			Direction, Rainfall.	
b. AAQ Parameters	8	Twice in a week	PM_{10} , $PM_{2.5}$, SO_2 , NO_2 &	
			СО	
B. Noise	10	Once (Day & Night)	$L_{eq} [dB (A)]$	
C. Water				

Attributes	Sam	Parameters		
	No. of Stations	Frequency		
a. Surface Water	10	Once in the study	Physical, Chemical &	
		period	Biological	
b. Ground Water	9	Once in the study	Physical, Chemical &	
		period	Biological	
D. Land				
a. Soil Quality	4	Once in the study	Physical and Chemical	
		period		
b. Land Use	Study Area	Once in the study	Land use using Satellite	
		period	Imagery	
E. Biological				
a. Aquatic	Study Area	Once in the study	Enlist local Flora and Fauna	
		period		
b. Terrestrial	Study Area	Once in the study	Enlist local Flora and Fauna	
		period		
F. Socio-economic	Study Area	Based on Latest	Population & Infrastructure	
Parameters		census data and	Facilities	
		sample survey		

24.10.13 Action plan for the different criteria for SPA as per MoEF&CC OM dated 31st October, 2019

Environment	Mitigation Measures
Air	 <u>Stipulation of conditions such as:</u> i. Stack emission levels should be stringent than the existing standards in terms of the identified critical pollutants.
	Reply: Sufficient APC measures like Bag Filters including a stack of proper height will be installed to control the stack emission levels so that ultimately the levels are well below the existing standard for PM.
	ii. CEMS may be installed in all large/medium red category industries (air polluting) and connected to SPCB and CPCB server.
	Reply: CEMS shall be installed, if required and shall be connected to SPCB and CPCB server.
	iii. Effective fugitive emission control measures should be imposed in the process, transportation, packing etc.
	Reply: Dust extraction system shall be installed with the Induction Furnaces. Besides, Th ere will be number of Water Sprinklers at all relevant locations inside the plant area. Ther e will be sufficient Greenbelt (40% of the plant area), which will also help to mitigate fugi tive emissions.

Environment	Mitigation Measures					
	iv. Transportation of materials by rail/conveyor belt, wherever feasible.					
	Reply: Transportation of raw materials, Products as well as solid waste will be through					
	both Rail & Road. In case of Road transportation, it will be done through covered trucks					
	to avoid pollution emissions. Loading and unloading will be conducted under closed					
	system. There will be no spillage/leakage.					
	v. Encourage use of cleaner fuels (pet coke/furnace oil/LSHS may be avoided).					
	Reply: Only HSD will be used in standby DG Sets which will be used in case of Power failure.					
	vi. Best available technology may be used. For example, usage of EAF/SAF/IF in place of sub-critical technology.					
	Reply: Best available technology shall be adopted. Induction Furnace along with Rolling Mill shall be installed in the proposed project.					
	vii. Increase of green belt cover by 40% of the total land area beyond the permissible requirement of 33%, wherever feasible.					
	Reply: The Company has allocated 40% (3.96 Acres) of the total land area (9.9 Acres) for the purpose of Greenbelt development inside the plant.					
	viii. Stipulation of green belt outside the project premises such as avenue plantation, plantation in vacant areas, social forestry etc.					
	Reply: Plants will be planted outside the project premises in consultation with the local authority.					
	ix. Assessment of carrying capacity of transportation load on roads inside the industrial premises. If the roads required to be widened, shall be prescribed as a condition.					
	Reply: There will be a movement of small numbers of vehicles (heavy & medium). This small traffic load will have an insignificant effect on roads both inside & outside the plant as per IRC Guidelines.					
Water	Stimulation of conditions such as					
water	<u>Supuration of conditions such as:</u> i Reuse/recycle of treated wastewater, wherever feasible					
	1 Tease, reegere of dedice waste water, where you reasible.					
	Reply: The wastewater after proper treatment will be used for non-critical purposes inside the plant premises.					
	ii. Continuous monitoring of offluent quality/quantity in large and an diam as 1.					
	11 Continuous monitoring of effluent quality/quantity in large and medium red category					
Environment	Mitigation Measures					
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	industries (water polluting)					
	Reply: Zero Liquid Discharge concept shall be adopted. There will not be any waste water discharge outside the plant boundary.					
	iii A detailed water harvesting plan may be submitted by the project proponent.					
	Reply: The detail water harvesting plant will be submitted in the EIA-EMP Report					
	iv Zero liquid discharge wherever techno economically feasible.					
	Reply: Zero Liquid Discharge concept shall be adopted.					
	v In case, domestic waste water generation is more than 10 KLD, the industry may install STP.					
	Reply: Domestic waste water generation will be treated in the septic tank soak pit system.					
Land	 <u>Stipulation of conditions such as:</u> i Increase of green belt cover by 40% of the total land area beyond the permissible requirement of 33%, wherever feasible for new projects. 					
	Reply: The Company has allocated 40% (3.96 Acres) of the total land area (9.9 Acres) for the purpose of Greenbelt development inside the plant.					
	ii Stipulation of green belt outside the project premises such as avenue plantation, plantation in vacant areas, social forestry etc.					
	Reply: Plants will be planted outside the project premises in consultation with the local authority.					
	iii Dumping of waste (fly ash, slag, red mud, etc) may be permitted only at designated locations approved by SPCBs / PCCs.					
	Reply: The Induction Furnace Slag will be used for Land filling / Road construction purpose after metal recovery.					
	iv More stringent norms for management of hazardous waste. The waste generated should be preferably utilized in co-processing.					
	Reply: Negligible quantity of used / spent oil will be generated from the project which will be disposed through authorized recyclers.					
Other	i Monitoring of compliance of EC conditions may be submitted with third party audit					

Environment	Mitigation Measures
Condition	every year.
(Additional)	
:	Reply: Compliance monitoring of EC conditions will be submitted with third party audit
	every year.
	ii The % of the CER may be at least 1.5 times the slabs given in the OM dated 01.05.2018 for SPA and 2 times for CPA in case of Environmental clearance.Reply: The CER shall be undertaken as per MoEF&CC OM dated 30.09.2020.

Written representations:

24.10.14 During the meeting, based on the deliberations made by the EAC, the project proponent vide letter dated 01.03.2023 through email dated 01.03.2023 submitted the following information:

Sl.	Points raised by EAC	Submission of PP		
No.				
1.	Revised Plant Layout	As advised, PP will revise the Plant Layout by properly		
		showing the roads along with the path circulation inside the		
		plant area. Apart from this, PP will explicitly show the		
		Contouring along with the Drainage Pattern particularly		
		along the road network inside the plant area, in the Contour		
		Map.		
2.	Undertaking pertaining	The plant was implemented after getting NOC dated		
	to project not under	01.08.2006 from WBPCB as per the prevailing notification		
	violation	(published in the year 1994) of MoEF&CC, as per which		
		No Environmental Clearance (EC) was required for this		
		project. This project does not come under the purview of		
		any violation cases.		
3.	Undertaking for	As suggested, PP will develop total 40% greenbelt of the		
	Greenbelt in 40% of	total plant area, out of which 33% shall be completed in the		
	Project area	upcoming Monsoon Season.		
4.	Action plan for the	As advised, the action plan for the different criteria for SPA		
	different criteria for SPA	area as per MoEF&CC OM dated 31st October, 2019 has		
	as per MoEF&CC OM	been submitted and incorporated at para 24.10.13 above.		
	dated 31st October, 2019			

Deliberation by the Committee

24.10.15 The Committee noted the following:

i. The instant proposal is for expansion of existing steel plant for production of 0.1485 MTPA TMT Bars, Wire Rod, Structure.

- ii. The proposal falls under Category "B" of the schedule of the EIA Notification, 2006, however, general condition is applicable proposed project site falls within 5 km from the boundary of Durgapur Municipal Area i.e Severely Polluted Area and therefore the proposal being appraised at Central Level as Category 'A'.
- iii. The existing project was accorded Consent to Establish vide Memo No. 516 2N 136 / 2006 (E) dated 01.08.2006 for installation of Induction Furnaces (2x7 T) for production of 4117 TPM M.S Ingots (Project Cost: Rs. 6.87 Crores). The EAC deliberated and is of the view that the plant was implemented after getting NOC from WBPCB and there was no requirement of Environmental Clearance (EC) for this project under the provisions of EIA Notification, 1994.
- iv. Total project area is 4.0 ha which is private land and under the possession of the company. Proposed replacement and expansion project is proposed to be installed on the available land, within the existing plant premises.
- v. River Damodar is passing at a distance of about 6.0 km in south direction w.r.t the project site in the study area.
- vi. The total water requirement after proposed expansion project will be 130 m^3/day , which is proposed to be obtained from the ground water.
- vii. The Committee deliberated upon the written submission of the Project Proponent and found it satisfactory.
- viii. The PP has submitted the Action plan for the different criteria for SPA as per MoEF&CC OM dated 31st October, 2019 as below:

Environment	Mitigation Measures
Air	Stipulation of conditions such as:
	i. Stack emission levels should be stringent than the existing standards in terms of
	the identified critical pollutants.
	Reply: Sufficient APC measures like Bag Filters including a stack of proper height
	will be installed to control the stack emission levels so that ultimately the levels are
	well below the existing standard for PM.
	ii. CEMS may be installed in all large/medium red category industries (air polluting) and connected to SPCB and CPCB server.
	Reply: CEMS shall be installed, if required and shall be connected to SPCB and CPCB server.
	iii. Effective fugitive emission control measures should be imposed in the process, transportation, packing etc.
	Reply: Dust extraction system shall be installed with the Induction Furnaces. Besid es, There will be number of Water Sprinklers at all relevant locations inside the plan t area. There will be sufficient Greenbelt (40% of the plant area), which will also hel p to mitigate fugitive emissions.

Environment	Mitigation Measures							
	iv. Transportation of materials by rail/conveyor belt, wherever feasible.							
	Reply: Transportation of raw materials, Products as well as solid waste will be through both Rail & Road. In case of Road transportation, it will be done through covered trucks to avoid pollution emissions. Loading and unloading will be conducted under closed system. There will be no spillage/leakage.							
	v. Encourage use of cleaner fuels (pet coke/furnace oil/LSHS may be avoided)							
	Reply: Only HSD will be used in standby DG Sets which will be used in case of Power failure.							
	vi. Best available technology may be used. For example, usage of EAF/SAF/IF in place of sub-critical technology.							
	Reply: Best available technology shall be adopted. Induction Furnace along with Rolling Mill shall be installed in the proposed project.							
	vii. Increase of green belt cover by 40% of the total land area beyond the permissible requirement of 33%, wherever feasible.							
	Reply: The Company has allocated 40% (3.96 Acres) of the total land area (9.9 Acres) for the purpose of Greenbelt development inside the plant.							
	viii. Stipulation of green belt outside the project premises such as avenue plantation, plantation in vacant areas, social forestry etc.							
	Reply: Plants will be planted outside the project premises in consultation with the local authority.							
	ix. Assessment of carrying capacity of transportation load on roads inside the industrial premises. If the roads required to be widened, shall be prescribed as a condition.							
	Reply: There will be a movement of small numbers of vehicles (heavy & medium). This small traffic load will have an insignificant effect on roads both inside & outside the plant as per IRC Guidelines.							
Water	Stipulation of conditions such as:							
	i Reuse/recycle of treated wastewater, wherever feasible.							
	Reply: The wastewater after proper treatment will be used for non-critical purposes inside the plant premises.							
	ii Continuous monitoring of effluent quality/quantity in large and medium red							

Environment	Mitigation Measures					
	category industries (water polluting)					
	Reply: Zero Liquid Discharge concept shall be adopted. There will not be any waste water discharge outside the plant boundary.					
	iii A detailed water harvesting plan may be submitted by the project proponent.					
	Reply: The detail water harvesting plant will be submitted in the EIA-EMP Report					
	iv Zero liquid discharge wherever techno economically feasible.					
	Reply: Zero Liquid Discharge concept shall be adopted.					
	v In case, domestic waste water generation is more than 10 KLD, the industry may install STP.					
	Reply: Domestic waste water generation will be treated in the septic tank soak pit system.					
Land	Stipulation of conditions such as:					
	i Increase of green belt cover by 40% of the total land area beyond the permissible requirement of 33%, wherever feasible for new projects.					
	Reply: The Company has allocated 40% (3.96 Acres) of the total land area (9.9 Acres) for the purpose of Greenbelt development inside the plant.					
	ii Stipulation of green belt outside the project premises such as avenue plantation, plantation in vacant areas, social forestry etc.					
	Reply: Plants will be planted outside the project premises in consultation with the local authority.					
	iii Dumping of waste (fly ash, slag, red mud, etc) may be permitted only at designated locations approved by SPCBs / PCCs.					
	Reply: The Induction Furnace Slag will be used for Land filling / Road construction purpose after metal recovery.					
	iv More stringent norms for management of hazardous waste. The waste generated should be preferably utilized in co-processing.					
	Reply: Negligible quantity of used / spent oil will be generated from the project which will be disposed through authorized recyclers.					
Other	i Monitoring of compliance of EC conditions may be submitted with third party					
Condition	audit every year.					

Environment	Mitigation Measures
(Additional)	
:	Reply: Compliance monitoring of EC conditions will be submitted with third party audit every year.
	ii The % of the CER may be at least 1.5 times the slabs given in the OM dated 01.05.2018 for SPA and 2 times for CPA in case of Environmental clearance.
	Reply: The CER shall be undertaken as per MoEF&CC OM dated 30.09.2020.

Recommendations of the Committee

- 24.10.16 After deliberations, the Committee **recommended** the project proposal for prescribing following specific ToRs for undertaking detailed EIA and EMP study in addition to the generic ToRs enclosed at **Annexure-1** read with additional ToRs at **Annexure-2**:
 - (i) Water required for the proposed project will be $130 \text{ m}^3/\text{day}$, which is proposed to be obtained from the ground water. PP shall explore the possibility of shifting to alternate source of water to reduce dependency on groundwater.
 - (ii) In pursuance to MoEF&CC OMs dated 31st October, 2019 & 30th December, 2019 issued in compliance of the order of Hon'ble NGT in OA No. 1038/2018 dated 19th August, 2019, the compliance of all the conditions applicable to CEPI shall be included in the EIA/EMP report. Greenbelt shall be planned in 40% of the project area. As committed, 33% shall be completed in the upcoming Monsoon Season of 2023. Allocation for socio economic development of nearby villages shall be 1.5 times of the normal calculated amount.
 - (iii) Detailed description of micro flora and fauna (terrestrial and aquatic) existing in the study area with special reference to rare, endemic and endangered species.
 - (iv) Explore possibilities for recycling and reusing of treated water in the unit to reduce the fresh water demand and waste disposal.
 - (v) The PP should submit the photograph of monitoring stations & sampling locations. The photograph should bear the date, time, latitude & longitude of the monitoring station/sampling location. In addition to this PP should submit the original test reports and certificates of the labs which will analyze the samples.
 - (vi) PP shall submit action plan for rainwater harvesting system.
 - (vii) Action plan for 100 % solid waste utilization shall be submitted.
 - (viii) Project proponent shall prepare layout plan showing all internal roads minimum 6m width and 9m turning radius with proper looping for smooth traffic flow, including fire tender as per NBC. Road network shall connect all service areas in layout. This drawing shall include area statement showing plot area, area under roads, parking, green belt with calculations and % with respect to plot area of project site and proper indexing.
 - (ix) Project proponent shall submit contour map of project site along with drainage disposal system with calculations and drawings supported with proper indexing including rain water harvesting details with calculations mentioning about GW recharge along with relevant drawing.

- (x) Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitorable with defined time frames", when PP comes for EC proposal. This study shall be formulated keeping in view of India's Net-zero commitment at the COP-26 Climate Summit.
- (xi) As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey (10 Kms radial coverage from the project site) and undertake community developmental activities in consultation with the village Panchayat and the District Administration. In this regard, time bound action plan as per the MoEF&CC Office Memorandum dated 30/09/2020 shall be submitted.
- (xii) Traffic study shall be carried out inter-alia including existing road details with traffic load, proposed quantum of material to be transported by sea/rail/road with anticipated vessels/rakes/vehicles details, line source modelling and infrastructure strengthening details etc., These details shall be included in the EIA report.
- (xiii) Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.
- (xiv) Action plan to limit the dust emission from all the stacks below 30 mg/Nm³ shall be furnished.
- (xv) A Plan of Action for disposal of e-waste must be drawn up and implemented.
- (xvi) PP shall explore the possibility of plastic waste utilization in the Plant/Unit process.
- (xvii) The PP to prepare 3 separate drawings. In drg 1 PP to show complete layout, Road network, Parking, Plant construction along with area statement, proper indexing with colour codes etc. In drag 2 PP to show road networking with existing and proposed green belt with area calculations with its % against plot area. In drg 3 PP to prepare contour drawing with road networking, drainage disposal system, RWH system with drawings, designs and calculations along with indexing and colour code for drainage nerwork etc.
- (xviii) Action Plan for fire fighting system including provision for flame detectors, temperature actuated heat detectors with alarms, automatic sprinkler system, location of fire water tanks & capacity, separate power system for fire fighting, details of qualified and trained fire personnel & their job specifications, nearest fire station & time required to reach the proposed site shall be submitted.

Agenda No. 24.11

24.11 Expansion for production of 150,000 TPA of Crude Steel by M/s Satyam Smelters Private Limited (SSPL), located at Plot No. 111-143; 152-160; 354/2054; 153/2068 Ikrah, Jamuria Industrial Area, Dist-Paschim Bardhaman, West Bengal – Consideration of TOR.

[Proposal No. IA/WB/IND1/410587/2022; File No. IA-J-11011/405/2021-IA-II(IND-I)

24.11.1 Consideration of the proposal was **deferred** as the Project Proponent did not attend the meeting. The Member Secretary appraised the Committee that the Consultant of the instant proposal M/s Greencindia Consulting Private Limited vide email dated 24.02.2023 infomed that they will not be able to attend the meeting as they are in the process of the extension of their accreditation which is expired on 22nd February, 2023. Taking into consideration the communication from the Consultant, EAC if of the view that this is very unprofessional on the part of PP as there is no communication from PP and furthermore since this is a ToR proposal, PP had an option presenting the case on their own. PP/Consultant have simply wasted the time of the EAC and further requested the Ministry to place the proposal in the EAC meeting only after receiving further request/communication from project proponent.

Agenda No. 24.12

24.12 Proposed Standalone Grinding Unit of 72,000 TPA White Cement by M/s NGS White Cements AP Private Limited, located at Peddaveedu Village, Mattam Palle Mandal, Suryapet District, Telangana– Consideration of TOR.

[Proposal No. IA/TG/IND1/416448/2023; File No. IA-J-11011/48/2023-IA-II(IND-I)]

24.12.1 Consideration of the proposal was **deferred** as the Project Proponent did not attend the meeting. The Member Secretary appraised the Committee that M/s NGS White Cements AP Private Limited vide letter dated 28.02.2023 sent through email dated 28.02.2023 informed that they will not be able to attend the meeting due to some unavoidable circumstances. Taking into consideration the communication from the PP, EAC requested the Ministry to place the proposal in the EAC meeting only after receiving further request/communication from project proponent.

The meeting ended with thanks to the Chair.

Standard ToR in line with Appendix III of the EIA, 2006. applicable to Proposals Under Industry-1 Sector

Preliminary requirements:

- i. EIA/EMP report cover page shall consists of project title with location, applicable schedule of the EIA Notification, 2006, ToR letter No. with date, study period along with EIA consultant & laboratory details with QCI/NABET/NABL accreditation certificate detail.
- ii. Besides, following points shall be compiled as per QCI/NABET norms:
 - a. Disclaimer by the EIA consultant.
 - b. Declaration by the Functional Area Experts contributed to the EIA study and declaration by the head of the accredited consultant organization/authorized person.
 - c. Undertaking by the project proponent owning the contents (information and data) of the EIA/EMP report.
 - d. Undertaking by the EIA consultant regarding compliance of ToR issued by MoEF&CC.
 - e. Consultant shall submit the Plagiarism Certificate for the EIA/EMP Report.

Structure of EIA/EMP report

Executive Summary

- i. Table of Contents of the EIA report including list of tables/figures/annexures/abbreviations/symbols/notations.
- ii. Point wise compliance to the ToR issued by MoEF&CC.
- iii. Executive Summary
 - I. Introduction
 - i. Name of the project along with applicable schedule and category as per EIA, 2006.
 - ii. Location and accessibility
 - II. Project description
 - i. Resource requirements (Land; water; fuel; manpower)
 - ii. Operational activity
 - iii. Key pollution concerns
 - III. Baseline Environment Studies
 - i. Ambient air quality
 - ii. Ambient Noise quality
 - iii. Traffic study
 - iv. Surface water quality
 - v. Ground water quality
 - vi. Soil quality
 - vii. Biological Environment
 - viii. Land use
 - ix. Socio-economic environment
 - IV. Anticipated impacts
 - i. Impact on ambient air quality

- ii. Impact on ambient noise quality
- iii. Impact on road and traffic
- iv. Impact on surface water resource and quality
- v. Impact on ground water resource and quality
- vi. Impact on terrestrial and aquatic habitat
- vii. Impact on socio-economic environment
- V. Alternative analysis
- VI. Environmental Monitoring program
 - i. Ambient air, noise, water and soil quality
 - ii. Emission and discharge from the plant
 - iii. Green belt
 - iv. Social parameters
- VII. Additional studies
 - i. Risk assessment
 - ii. Public consultation
 - iii. Action plan to address the issues raised during public consultation as per MoEF&CC O.M. dated 30/09/2020
- VIII. Project benefits
 - IX. Environment management plan
 - i. Air quality management plan
 - ii. Noise quality management plan
 - iii. Solid and hazardous waste management plan
 - iv. Effluent management plan
 - v. Storm water management plan
 - vi. Occupational health and safety management plan
 - vii. Green belt development plan
 - viii. Socio-economic management plan
 - ix. Project cost and EMP implementation budget.

EIA/EMP Report

1. Introduction

- i. Background about the project
- ii. Need of the project
- iii. Purpose of the EIA study
- iv. Scope of the EIA study

2. Project description

A. Site Details

- i. Location of the project site covering village, Taluka/Tehsil, District and State.
- ii. Site accessibility
- iii. A digital toposheet in pdf or shape file compatible to google earth of the study area of radius of 10km and site location preferably on 1:50,000 scale. (including all eco-sensitive areas and environmentally sensitive places).
- iv. Latest High-resolution satellite image data having 1 m 5 m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc., along with delineation of plant

boundary co-ordinates. Area must include at least 100 m all around the project location.

- v. Environment settings of the site and its surrounding along with map.
- vi. A list of major industries with name, products and distance from plant site within study area (10km radius) and the location of the industries shall be depicted in the study area map.
- vii. In case if the project site is in vicinity of the water body, 50 meters from the edge of the water body towards the site shall be treated as no development/construction zone. If it's near the wetland, Guidelines for implementing Wetlands (Conservation and Management) Rules, 2017 may be followed.
- viii. In case if the project site is in vicinity of the river, the industry shall not be located within the river flood plain corresponding to one in 25 years flood, as certified by concerned District Magistrate/Executive Engineer from State Water Resources Department (or) any other officer authorized by the State Government for this purpose as per the provisions contained in the MoEF&CC Office Memorandum dated 14/02/2022.
- ix. In case of canal/ nala/ seasonal drain and any other water body passing through project site, the PP shall submit the suitable steps /conservation plan/mitigation measures along with contouring, Run -off calculations, disposal etc. A robust and full proof Drainage Conservation scheme to protect the natural drainage/water bodies and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be provided in the report.
- x. Type of land, land use of the project site needs to be submitted.
- xi. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process as per the MoEF&CC O.M. dated 7/10/2014 shall be furnished.
- xii. Project proponent shall prepare Engineering layout plan showing all internal roads minimum 6 m width and 9 m turning radius for smooth traffic flow inside including fire tender as per NBC. Road network shall connect all service areas in layout. This drawing shall include area statement showing plot area, area under roads, parking, green belt with calculations and % with respect to plot area of project site and proper indexing. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
- xiii. Project proponent shall submit contour map of project site along with drainage disposal system with calculations and drawings supported with proper indexing including Rain Water Harvesting details with calculations mentioning about GW recharge along with relevant drawing.
- xiv. A detailed report covering all aspects of Fire Safety Management and Fire Emergency Plan shall be submitted.
- xv. Details of drone survey for the site, needs to be included in report and presented before the EAC during appraisal of the project.

B. Forest and wildlife related issues (if applicable):

i. Status of Forest Clearance for the use of forest land shall be submitted.

- ii. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife if the project site located within notified Eco-Sensitive Zone, 10 km radius of national park/sanctuary wherein final ESZ notification is not in place as per MoEF&CC Office Memorandum dated 8/8/2019.
- iii. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, Eco-sensitive Zone and Eco-sensitive areas, the project proponent shall submit the map duly authenticated by Divisional Forest Officer showing the distance between the project site and the said areas.
- iv. Wildlife Conservation Plan duly authenticated by the Competent Authority of the State Government for conservation of Schedule I fauna along with budget and action plan, if any exists in the study area.

C. Salient features of the project

- i. Products with capacities in **Tons per Annum** for the proposed project.
- ii. If expansion project, status of implementation of existing project, details of existing/proposed products with production capacities in Tons per Annum.
- iii. Site preparatory activities.
- iv. List of raw materials required and their source along with mode of transportation.
- v. Other than raw materials, other chemicals and materials required with quantities and storage capacities.
- vi. Manufacturing process details along with process flow diagram of proposed units.
- vii. Consolidated materials and energy balance for the project.
- viii. Total requirement of surface/ ground water and power with their respective sources, status of approval.
- ix. Water balance diagram
- x. Details of Emission, effluents, hazardous waste generation and mode of disposal during construction as well as operation phase.
- xi. Man-power requirement.
- xii. Cost of project and scheduled time of completion.
- xiii. In case of expansion projects, project proponent shall submit structural stability certificate showing whether existing structure withstand for proposed expansion activity.
- xiv. Brief on present status of compliance (Expansion/modernization proposals)
 - a. Cumulative Environment Impact Assessment for the existing as well as the proposed expansion/modernization shall be carried out.
 - b. In case of ground water drawl for the existing unit, action plan for phasing out of ground water abstraction in next two years except for domestic purposes and shall switch over to 100 % use of surface water from nearby source.
 - c. Copy of <u>all</u> the Environment Clearance(s) including Amendments/validity of extension/transfer of EC, there to obtained for the project from MoEF&CC/SEIAA shall be attached as Annexures. A Certified Compliance Report (CCR) of the Integrated Regional Office of the Ministry of Environment, Forest and Climate Change/ or concerned authority as per OM No. IA3-22/10/2022-IA.III [E 1772581], dated 8th June, 2022 on the status of

compliance of conditions stipulated in <u>all</u> the existing environment clearances including amendments shall be provided. A Certified Compliance Report (CCR) issued by the concerned Authority shall be valid for a period of one year from the date of inspection.

d. In case the existing project has not obtained Environment Clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. A proper justification needs to be submitted along with documentary proof. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 1994 or 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of CTO from the Regional Office of the SPCB shall be submitted, as per OM No. IA3-22/10/2022-IA.III [E 1772581], dated 8th June, 2022. CCR on CTO conditions issued by the concerned SPCBs/PCCs shall be valid for a period of one year from the date of inspection of the project.

3. Description of the Environment

- i. Study period
- ii. Approach and methodology for data collection as furnished below.

Attributes	Sampling		Remarks
	Network	Frequency	
A. Air Environment			
 Micro-Meteorological Wind speed (Hourly) Wind direction Dry bulb temperature Wet bulb temperature Relative humidity Rainfall Solar radiation Cloud cover Environmental Lapse Rate 	Minimum 1 site in the project impact area	1 hourly continuous	 IS 5182 Part 1-20 Site specific primary data is essential Secondary data from IMD, New Delhi CPCB guidelines to be considered.
 Pollutants PM_{2.5} PM₁₀ SO₂ NOx CO HC Other parameters relevant to the project and topography of the 	At least 8-12 locations	As per National Ambient Air Quality Standards, CPCB Notification.	 Sampling as per CPCB guidelines Collection of AAQ data (except in monsoon season) Locations of various stations for different parameters should be related to the characteristic properties of the

Attributes	Sampling		Remarks
	Network	Frequency	
area			parameters.
			• The monitoring
			stations shall be based
			on the NAAQM
			standards as per GSR
			826(E) dated
			16/11/2009 and take
			into account the
			predominant wind
			direction, population
			zone and sensitive
			receptors including
			reserved forests,
			• Raw data of all AAQ
			measurement for 12
			weeks of all stations
			as per frequency given
			in the NAAQM
			Notification of
			16/11/2009 along with
			min., max., average
			and 98% values for
			each of the AAQ
			parameters from data
			of all AAQ stations
			should be provided as
			an annexure to the
D. Noise			EIA Report.
B. Noise	At loost 9 12	A c por	
Hourry equivalent	locations	CPCB norms	-
C Water	locations	CI CD IIOIIIIS	
C. Walti Parameters for water	Samples for wat	ter quality shoul	d be collected and analyzed
anality	as per:	ter quanty should	a se concerca and anaryzou
• nH temp turbidity	• IS: 2488 (Pg	art 1-5) methods	for sampling and testing of
magnesium hardness	Industrial ef	fluents	is sumpting and costing of
total alkalinity	Standard m	nethods for ev	xamination of water and
chloride. sulphate	wastewater	analysis publi	shed by American Public
nitrate. fluoride	Health Asso	ciation	shea of milenean rubile
sodium, potassium.			
salinity			
• Total nitrogen. total			
phosphorus, DO,			

Attributes	Sampling		Remarks
	Network	Frequency	
 BOD, COD, Phenol Heavy metals Total coliforms, faecal coliforms Phyto-plankton Zoo-plankton Microalgae/microalgal bloom 			
For River Bodies	 Surface 	• Vield of w	ater sources to be measured
 Total Carbon pH Dissolved Oxygen Biological Oxygen Demand Free NH4 Boron Sodium Absorption Ratio Electrical Conductivity TDS 	water quality of the nearest River (60m upstream and downstrea m) and other surface water bodies	 Tread of w during critt Standard n of surface 	ical season methodology for collection water (BIS standards)
For Ground Water	 Ground wat minimum c wells/existir shall be incl 	er monitoring of 8 locations ng current recoruded.	data should be collected at (from existing wells /tube ds) from the study area and
D. Traffic Study	I		
 Type of vehicles Frequency of vehicles for transportation of materials Additional traffic due to proposed project Parking arrangement 	-		
E. Land Environment	1		
 Soil Particle size distribution Texture pH Electrical conductivity Cation exchange 	Soil samples be	collected as per	BIS specifications

Attributes		Sampling		Remarks
		Network	Frequency	
 Alkali metals				
Sodium Absorption				
Ratio (SAR)				
• Permeability				
Water holding capace	ity			
Porosity				
Land use/Landscape	-			
Location code				
• Total project area				
• Topography				
• Drainage (natural)				
• Cultivated, forest,				
plantations, water				
bodies, roads and				
E Biological Environm	nont			
A quatic		Datailad da	corrintion of flor	and found (torrestrial and
Primary productivity		acuatic) evi	scription of nor	dy area shall be given with
Aquatic weeds		special ref	erence to rare	endemic and endangered
 Aqualle weeks Enumeration of physical 	0	species Ind	icator species w	hich indicate ecological and
plankton zoo plankt	on	environmen	t degradation	should be identified and
and benthos	511	included to	clearly state wi	hether the proposed project
 Fisheries 		would resul	t in to any adver	se effect on any species.
 Diversity indices 	•	Samples to	collect from up	ostream and downstream of
Trophic levels		discharge p	oint, nearby trib	outaries at downstream, and
• Rare and endangered		also from d	ug wells close to	activity site.
species	•	For forest	studies, direc	tion of wind should be
Marine Parks/		considered	while selecting f	orests.
Sanctuaries/ closed	•	Secondary	data to collect	from Government offices,
areas /coastal		NGOs, publ	ished literature.	
regulation zone (CR2	Z)			
Terrestrial				
• Vegetation-spec	ies			
list, econor	nic			
importance, for	est			
produce, medici	nal			
value				
• Importance value inc	lex			
(IVI) of trees				
• Fauna				
Avi fauna				

Attributes	Sampling		Remarks
	Network	Frequency	
• Rare and endangered species			
• Sanctuaries / National			
park / Biosphere			
reserve			
Migratory routes			
F. Socio-economic			
Demographic structure	Socio-econo	omic survey is	s based on proportionate,
• Infrastructure resource	stratified an	d random sampl	ing method.
base	• Primary dat	a collection thro	ugh questionnaire
Economic resource	• Secondary	data from cens	us records, statistical hard
base	books, topo	sheets, health r	records and relevant official
• Health status:	records avai	lable with Govt	. agencies
Morbidity pattern			
• Cultural and aesthetic			
attributes			
• Education			

- iii. Interpretation of each environment attribute shall be enumerated and summarized as given below:
 - Ambient air quality
 - Ambient Noise quality
 - Surface water quality
 - Ground water quality
 - Soil quality
 - Biological Environment
 - Land use
 - Socio-economic environment
- 4. Anticipated Environment Impacts and mitigation measures (In case of expansion, cumulative impact assessment shall be carried out)
 - i. Identification of potential impacts in the form of a **matrix** for the construction and operation phase for all the environment components

Activity	Environment	Ecological	Socio-economic
Construction phase			
Operation phase			

- ii. Impact on ambient air quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
 - a. Construction phase
 - b. Operation phase

- Details of stack emissions from the existing as well as proposed activity.
- Assessment of ground level concentration of pollutants from the stack emission based on AQIP Modelling The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any along with wind rose map for respective period
- Impact on ground level concentration, under normal, abnormal and emergency conditions. Measures to handle emergency situations in the event of uncontrolled release of emissions.
- iii. Impact on ambient noise quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
 - a. Construction phase
 - b. Operation phase
- iv. Impact on traffic (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
 - a. Construction phase
 - b. Operation phase
- v. Impact on soil quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
 - a. Construction phase
 - b. Operation phase
- vi. Impact on land use (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
 - a. Construction phase
 - b. Operation phase
- vii. Impact on surface water resource and quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
 - a. Construction phase
 - b. Operation phase
- viii.Impact on ground water resource and quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
 - a. Construction phase
 - b. Operation phase
- ix. Impact on terrestrial and aquatic habitat (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
 - a. Construction phase
 - b. Operation phase
- x. Impact on socio-economic environment (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
 - a. Construction phase
 - b. Operation phase
- xi. Impact on occupational health and safety (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
 - a. Construction phase
 - b. Operation phase

5. Analysis of Alternatives (Technology & Site)

- i. No project scenario
- ii. Site alternative
- iii. Technical and social concerns
- iv. Conclusion

6. Environmental Monitoring Program

- i. Details of the Environment Management Cell
- ii. Performance monitoring schedule for all pollution control devices shall be furnished.
- iii. Corporate Environment Policy
 - a. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
 - b. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environment or forest norms / conditions? If so, it may be detailed in the EIA.
 - c. What is the hierarchical system or Administrative order of the company to deal with the environment issues and for ensuring compliance with the environment clearance conditions? Details of this system may be given.
 - d. Does the company have system of reporting of non compliances / violations of environment norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report

Activity	Aspect	Monitoring	Location	Frequency	Responsibility
		Parameter			
Construction phase					
Operation phase					

iv. Action plan for **post-project environment monitoring matrix**:

7. Additional Studies

- i. Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage after offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitorable with defined time frames.
- ii. Details of adoption/ implementation status/plan to achieve the goal of Glasgow COP26 Climate Submit with regard to enhance the non-fossil energy, use of renewable energy, minimization of net carbon emission and carbon intensity with long-term target of "net Zero" emission.
- iii. Implementation status/measures adopted for avoiding the generation of single used plastic waste.

- iv. In cases the project is located in Critically and Severely Polluted Areas, additional mitigation measures adopted and detailed action plan to be submitted in the EIA/EMP Report as per MoEF&CC O.M. No. 22-23/2028-IA.III dated 31/10/2019 and MoEF&CC O.M. No. 22-23/2028-IA.III dated 5/07/2022 has to be submitted.
- v. Public consultation details (Entire proceedings as separate annexure along with authenticated English Translation of Public Consultation proceedings).
- vi. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration. In this regard, time bound action plan as per the MoEF&CC Office Memorandum dated 30/09/2020 shall be submitted.
- vii. Summary of issues raised during public consultation along with action plan to address the same as per MoEF&CC O.M. dated 30/09/2020

S N	Physical activity and action plan		Year of implementation (Budget in INR)			Total
0	Name of the Activity	Physical Targets	1 st	2 nd	3 rd	(Rs. in Crores)

viii.Risk assessment

- Methodology
- Hazard identification
- Frequency analysis
- Consequence analysis
- Risk assessment outcome
- ix. Emergency response and preparedness plan

8. Project Benefits

- i. Environment benefits
- ii. Social infrastructure
- iii. Employment and business opportunity
- iv. Other tangible benefits

9. Environment Cost Benefit Analysis

- i. Net present value
- ii. Internal rate of return
- iii. Benefit cost ratio
- iv. Cost effectiveness analysis

10. Environment Management Plan (Construction and Operation phase)

- i. Air quality management plan
- ii. Noise quality management plan
- iii. Action plan for hazardous waste management
- iv. Action plan for solid waste management
- v. Action plan for e-waste management.

- vi. Action plan for plastic waste management.
- vii. Action plan for construction and demolition waste management.
- viii.Effluent management plan
- ix. Storm water management plan
- x. Rain water harvesting plan
- xi. Plan for maximum usage of waste water/treated water in the Unit
- xii. Occupational health and safety management plan
- xiii.Green belt development plan: An action plan for Green Belt development consisting of 3 tiers of plantations of native species all along the periphery of the project of adequate width shall be raised in 33% of total area with a tree density shall not less than 2500 per ha within a time frame of one year shall be submitted. Survival rate of green belt shall be monitored on periodic basis to ensure that survival rate not be less than 80 %.
- xiv. Socio-economic management plan
- xv. Wildlife conservation plan (In case of presence of schedule I species)
- xvi. Total capital cost and recurring cost/annum for environment pollution control measures shall be included.

11. Conclusion of the EIA study

12. In addition to the above, any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.

Standard ToRs FOR CEMENT INDUSTRY [3(b)]

- 1. Limestone and coal linkage documents along with the status of environment clearance of limestone and coal mines.
- 2. Quantum of production of coal and limestone from coal & limestone mines and the projects they cater to;
- 3. Present land use shall be prepared based on satellite imagery. High-resolution satellite image data having 1m-5m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc. for the 10 Km radius area from proposed site. The same shall be used for land used/land-cover mapping of the area.
- 4. If the raw materials used have trace elements, an environment management plan shall also be included.
- 5. Plan for the implementation of the recommendations made for the cement plants in the Corporate Responsibility for Environmental Protection (CREP) guidelines shall be prepared.
- 6. Energy consumption per ton of clinker and cement grinding
- 7. Provision of waste heat recovery boiler
- 8. Arrangement for co-processing of hazardous waste in cement plant.
- 9. Provision of Alternate fuels.
- 10. Details of Implementation of Fly Ash Management Rules
- 11. Emission/Effluent norms as per GSR 496 (E) dated 9/5/2016 [EPA Rules 1986].
- 12. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.
- 13. Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm3 shall be furnished.
- 14. PP shall explore the possibility of plastic waste utilization in the Plant/Unit process.
- 15. Action plan for 100 % solid waste utilization shall be submitted.
- 16. PM (PM_{10} and $P_{2.5}$) present in the ambient air must be analysed for source analysis natural dust/RSPM generated from plant operations (trace elements) of PM_{10} to be carried over.

Standard ToRs FOR INTEGRATED STEEL PLANT [3(a)]

- 1. Iron ore/coal linkage documents along with the status of environment clearance of iron ore and coal mines.
- 2. Quantum of production of coal and iron ore from coal & iron ore mines and the projects they cater to. Mode of transportation to the plant and its impact.
- 3. For Large ISPs, a 3-D view i.e. DEM (Digital Elevation Model) for the area in 10 km radius from the proposal site. MRL details of project site and RL of nearby sources of water shall be indicated.
- 4. Recent land-use map based on satellite imagery. High-resolution satellite image data having 1m-5m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc. for the 10 Km radius area from proposed site. The same shall be used for land used/land-cover mapping of the area.

- 5. PM (PM₁₀ and PM_{2.5}) present in the ambient air must be analysed for source analysis natural dust/RSPM generated from plant operations (trace elements) of PM₁₀ to be carried over.
- 6. All stock piles will have to be on top of a stable liner to avoid leaching of materials to ground water.
- 7. Plan for the implementation of the recommendations made for the steel plants in the CREP guidelines.
- 8. Plan for slag utilization
- 9. Plan for utilization of energy in off gases (coke oven, blast furnace)
- 10. System of coke quenching adopted with justification.
- 11. Trace metals Mercury, arsenic and fluoride emissions in the raw material.
- 12. Trace metals in waste material specially in slag.
- 13. Trace metals in water
- 14. Details of proposed layout clearly demarcating various units within the plant.
- 15. Complete process flow diagram describing each unit, its processes and operations, along with material and energy inputs and outputs (material and energy balance).
- 16. Details on design and manufacturing process for all the units.
- 17. Details on environmentally sound technologies for recycling of hazardous materials, as per CPCB Guidelines, may be mentioned in case of handling scrap and other recycled materials.
- 18. Details on requirement of energy and water along with its source and authorization from the concerned department. Location of water intake and outfall points (with coordinates).
- 19. Details on toxic metal content in the waste material and its composition and end use (particularly of slag).
- 20. Details on toxic content (TCLP), composition and end use of slag.
- 21. Fourth Hole fume extraction system shall be provided for submerged Arc Furnace (SAF). Waste heat recovery (WHR) system shall be installed to recover the sensible heat from flue gases of electric arc furnace (EAF).
- 22. Emission/effluent norms as per G.S.R 894 (E) dated 4/12/2019 [EPA Rules 1986].
- 23. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.
- 24. Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm3 shall be furnished.
- 25. Action plan for 100 % solid waste utilization shall be submitted.
- 26. PP shall explore the possibility of plastic waste utilization in the Plant/Unit process.

Standard ToRs FOR METALLURGICAL INDUSTRY (Ferrous and Non-ferrous)[3(a)]

- 1. A 3-D view i.e. DEM (Digital Elevation Model) for the area in 10 km radius from the proposal site. MRL details of project site and RL of nearby sources of water shall be indicated.
- 2. Plan for the implementation of the recommendations made for the proposed Unit in the Corporate Responsibility for Environmental Protection (CREP) guidelines.
- 3. Plan for solid wastes utilization.

- 4. Plan for utilization of energy in off gases (coke oven, blast furnace)
- 5. System of coke quenching adopted with full justification.
- 6. Details on environmentally sound technologies for recycling of hazardous materials, as per CPCB Guidelines, may be mentioned in case of handling scrap and other recycled materials.
- 7. Details on toxic metal content in the waste material and its composition and end use (particularly of slag).
- 8. Details on toxic content using Toxicity Characteristic Leaching Procedure (TCLP), composition and end use of slag.
- 9. 100 % dolo char generated in the plant shall be used to generate power.
- 10. Fourth Hole fume extraction system shall be provided for SAF.WHR system shall be installed to recover sensible heat from flue gases of EAF. Provision for installation of jigging and briquetting plant to utilise the fines generated in the process.
- 11. No tailing pond is permitted for Iron ore slimes. Dewatering and filtration system shall be provided.
- 12. Emission/effluent norms as per G.S.R 894 (E) dated 4/12/2019 [EPA Rules 1986].
- 13. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.
- 14. Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be submitted.
- 15. Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm3 shall be furnished.
- 16. Action plan for 100 % solid waste utilization shall be submitted.
- 17. PM (PM_{10} and $P_{2.5}$) present in the ambient air must be analysed for source analysis natural dust/RSPM generated from plant operations (trace elements) of PM_{10} to be carried over.

Standard ToRs FOR PULP AND PAPER INDUSTRY [5(i)]

- 1. A note on pulp washing system capable of handling wood pulp shall be included.
- 2. Manufacturing process details for the existing and proposed plant shall be included. Chapter on Pulping & Bleaching shall include: no black liquor spillage in the area of pulp mill; no use of elemental chlorine for bleaching in mill; installation of hypo preparation plant; no use of potcher washing and use of counter current or horizontal belt washers. Chapter on Chemical Recovery shall include: no spillage of foam in chemical recovery plant, no discharge of foul condensate generated from MEE directly to ETP; control of suspended particulate matter emissions from the stack of fluidized bed recovery boiler and ESP in lime kiln

- 3. Studies shall be conducted and a chapter shall be included to show that Soda pulping process can be employed for Eucalyptus/Casuarina to produce low kappa (bleachable) grade of pulp.
- 4. Commitment that only elemental Chlorine-free technology will be used for the manufacture of paper and existing plant without chemical recovery plant will be closed within 2 years of issue of environment clearance.
- 5. A commitment that no extra chlorine base bleaching chemicals (more than being used now) will be employed and AOx will remain within limits as per CREP for used based mills. Plan for reduction of water consumption.
- 6. Undertaking to comply with the norms stipulated in the S.O. 3187 (E) dated 7/10/2016 for the projects located in Ganga basin.
- 7. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.
- 8. Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm3 shall be furnished.
- 9. Action plan for 100 % waste utilization shall be submitted.

Standard ToRs FOR LEATHER/SKIN/HIDE PROCESSING INDUSTRY [4(f)]

- 1. Justification for engaging a particular type of process (raw hide/skin into semi finishing or finished leather, semi-finished leather to finished leather, dry finishing operations, chrome/vegetable tanning, etc.).
- 2. Details regarding complete leather/ skin/ hide processing including the usage of sulphides, nitrogen compounds, chromium or other tanning agents, post-tanning chemicals, biocides, etc., along with the material balance shall be provided.
- 3. In case of chrome tanning, details of the chrome recovery plant, management of shavings/solid waste including safe disposal.
- 4. Details on reuse of soak liquor / saline stream from membrane system, if applicable, to the extent possible in pickling activity after required treatment. Also, mention the salt recovery measures.
- 5. Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm3 shall be furnished.
- 6. Action plan for 100 % waste utilization shall be submitted.

Standard ToRs FOR COKE OVEN PLANT [4(b)]

- 1. Justification for selecting recovery/non-recovery (beehive) type batteries with the proposed unit size.
- 2. Details of proposed layout clearly demarcating various facilities such as coal storages, coke making, by-product recovery area, etc within the plant.
- 3. Details of coke oven plant (recovery/non-recovery type) including coal handling, coke oven battery operations, coke handling and preparation.

- 4. Scheme for coal changing, charging emission centre, Coke quenching technology, pushing emission control.
- 5. Scheme for coke oven effluent treatment plant details including scheme for meeting cyanide standard.
- 6. Emission/effluent norms as per G.S.R 894 (E) dated 4/12/2019. Provision of CDQ in case of coke oven plant of 0.8 MTPA and above.
- 7. Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm3 shall be furnished.
- 8. Action plan for 100 % solid waste utilization shall be submitted.
- 9. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.

Standard ToRs FOR ASBESTOS MILLING AND ASBESTOS BASED PRODUCTS[4(c)]

- 1. Type of fibres used (Asbestos and others) and preference of selection from technoenvironment angle should be furnished
- 2. As asbestos is used in several products and as the level of precautions differ from milling to usage in cement products, friction products gasketing, textiles and also differ with the process used, it is necessary to give process description and reasons for the choice for selection of process
- 3. Technology adopted, flow chart, process description and layout marking areas of potential environment impacts
- 4. National standards and codes of practice in the use of asbestos particular to the industry should be furnished
- 5. In case of newly introduced technology, it should include the consequences of any failure of equipment/ technology and the product on environment status.
- 6. In case of expansion project asbestos fibre to be measured at stack emission and work zone area, besides base line air quality.
- 7. In case of green field project asbestos fibre to be measured in the ambient air.
- 8. Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm3 shall be furnished.
- 9. Action plan for 100 % solid waste utilization shall be submitted.
- 10. PM (PM10 and P2.5) present in the ambient air must be analysed for source analysis natural dust/RSPM generated from plant operations in case of expansion projects (trace elements /asbestos fibre) of PM10 to be carried over.
- 11. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.

Standard ToRs FOR IRON ORE BENEFICIATION PLANT [2 (b)]

1. Details regarding pollution control measures to be adopted in the mineral handling area, loading and unloading areas including all transfer points shall be submitted.

- 2. The Project proponent shall submit action plan for conditioning of the ore with water to mitigate fugitive dust emission, without affecting flow of ore in the ore processing and handling areas.
- 3. Treatment details regarding effluent generated from the ore beneficiation plant and the mode of transportation of tailing slurry shall be submitted.
- 4. Separate chapter on slime management shall be submitted.
- 5. Action plan for regular monitoring of ground water level and quality in and around the project area of beneficiation plant and tailing/slime pond shall be submitted by establishing a network of existing wells and constructing new piezometers.
- 6. Details regarding lining of the tailing/slime pond to be provided shall be submitted in order to ensure that there is no leaching from the tailing/slime pond.
- 7. Details regarding establishment of garland drain around the tailing/slime pond and the quantity of decanted water to be re-circulated from the tailing/slime pond shall be submitted along with complete water balance.
- 8. Technology to be adopted for maximum recovery of ore in order to reduce slurry discharge and to increase the life of the tailing/slime pond shall be submitted.
- 9. Action plan for 100 % solid waste utilization shall be submitted.
- 10. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.

Executive Summary

Executive summary of the report in about 8/10 pages incorporating the following:

- i. Project name and location (Village, Dist, State, Industrial Estate (if applicable)
- ii. Products and capacities. If expansion proposal, then existing products with capacities and reference to earlier EC.
- iii. Requirement of land, raw material, water, power, fuel, with source of supply (Quantitative)
- iv. Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid and hazardous wastes. Materials balance shall be presented.
- v. Measures for mitigating the impact on the environment and mode of discharge or disposal.
- vi. Capital cost of the project, estimated time of completion
- vii. Site selected for the project Nature of land Agricultural (single/double crop), barren, Govt/private land, status of is acquisition, nearby (in 2/3 km.) water body, population, with in 10km other industries, forest, eco/sensitive zones, accessibility, (note – in case of industrial estate this information may not be necessary)
- viii. Baseline environmental data air quality, surface and ground water quality, soil characteristic, flora and fauna, socio/economic condition of the nearby population
- ix. Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk.
- x. Likely impact of the project on air, water, land, flora/fauna and nearby population
- xi. Emergency preparedness plan in case of natural or in plant emergencies
- xii. Issues raised during public hearing (if applicable) and response given
- xiii. CSR plan with proposed expenditure.

- xiv. Occupational Health Measures
- xv. Post project monitoring plan

ANNEXURE-3

List of the Expert Appraisal Committee (Industry-1) members participated during VC meeting

S.	Name	Position		01.03.2023		
No.						
1.	Shri Rajive Kumar	Chairman	Present	Present		
2.	Dr. Dipankar Shome	Vice Chairman	Present	Present		
3.	Dr. S. Ranganathan	Member	Present	Present		
4.	Dr. Ranjit Prasad	Member	Present	Present		
5.	Dr. S. K. Singh	Member	Present	Present		
6.	Dr. Tejaswini Ananthkumar	Member	Present	Present		
7.	Dr. Hemant Sahasrabuddhe	Member	Present	Present		
8.	Dr. Jai Krishna Pandey	Member	Present	Present		
9.	Dr. E V R Raju	Member	Present	Present		
10.	Dr. B. N. Mohapatra, DG,	Member	Absent	Present		
	(Representatives of NCCBM)					
11.	Shri Nazimuddin, Scientist 'F'	Member	Present	Present		
	(Representative of CPCB)					
12.	Dr. S. Raghavan, Scientist 'D'	Member	Present	Present		
	(Representative of National Institute of					
	Occupational Health (NIOH)					
13.	Dr. Sanjay Bist, Scientist 'E'	Member	Present	Present		
	(Representative of Indian Meteorological					
	Department)					
14.	Dr. R.B. Lal,	Member	Present	Present		
	Scientist F, MoEFCC	Secretary				
	MoEFCC					
15.	Dr R P Rastogi	Scientist C	Present	Present		
16.	Dr Sandeepan BS	Scientist B	Present	Present		

Approval of EAC Chairman

Email

Additional Director MoEFCC Dr R B LAL

Re: Approval of Chairman for the Draft minutes of the 24th EAC Meeting held on February 28 & March 1, 2023-Regarding

From : chairman eac ind 1 <chairman.eac.ind.1@gmail.com></chairman.eac.ind.1@gmail.com>	Tue, Mar 07, 2023 10:35 AM
Subject : Re: Approval of Chairman for the Draft minutes of the 24th EAC Meeting held on February 28 & March 1, 2023- Regarding	
To : Additional Director MoEFCC Dr R B LAL <rb.lal@nic.in></rb.lal@nic.in>	
Cc : rajivekumar1983@gmail.com, ranganathan metals <ranganathan.metals@gmail.com>, ranjitnitj@gmail.com, rajuevr60@gmail.com, sksinghdce@gmail.com, dshome61@gmail.com, tejaswini acf <tejaswini.acf@gmail.com>, sshemant 801 <sshemant_801@rediffmail.com>, NCCBM DIRECTOR GENERAL <dg@ncbindia.com>, Nazimuddin <nazim.cpcb@nic.in>, Raghavan S <raghuharihar@gov.in>, raghuharihar@gov.in>, raghuharihar@yahoo.co.in, Sanjay Bist <sanjay.bist@imd.gov.in>, drjkpandey eac industry1 <drjkpandey.eac.industry1@gmail.com< td=""><td></td></drjkpandey.eac.industry1@gmail.com<></sanjay.bist@imd.gov.in></raghuharihar@gov.in></nazim.cpcb@nic.in></dg@ncbindia.com></sshemant_801@rediffmail.com></tejaswini.acf@gmail.com></ranganathan.metals@gmail.com>	

Dear Dr. Lal,

The minutes are approved. Kindly do the needful.

Best Wishes Rajive Kumar
