Rungta Mines Limited
[CHALIYAMA STEEL PLANT]
RUNGTA CHAMBERS, CHAIBASA - 833 201, JHARKHAND, INDIA
Phone : (06582) 255261, 255361, Telefax : +91-6582-255461, E-mail : csp@rungtamines.com

Ref: RML/CSP/MoEF/20-21/270 Date 14.05.2020

To,
Ministry of Environment, Forest and Climate Change,
Government of India,
Indira Paryavaran Bhawan,
Jorbagh Road, Aliganj,
New Delhi-110003.

Kind Attention: Director, Impact Assessment (Industry-1)

Subject: Expansion of Chaliyama Steel Plant located at villages Chaliyama, Bankasai & Kuju in District Saraikela Kharsawan of Jharkhand by M/s Rungta Mines Limited

Reference: Online Proposal No IA/JH/IND/151458/2020

Dear Sir,

This is with reference to the Essential Details Sought (EDS) online dated 13.05.2020 regarding the proposal cited under reference. In the matter, we are submitting our response hereunder along with required information/ document for your kind consideration.

Point: As certified compliance report is of May 2018 which is almost two years old, it is requested to obtain a latest report from RO. Any communication made by RO, Ranchi in this regard may be submitted.

Response: In response to the above, we have approached the Eastern Central Zone MOEF&CC RO, Ranchi for issuance of certified compliance report vide our letter no. RML/CSP/MoEF(RO)/19-20/6042 dated 06.03.2020. MOEF&CC Regional Office Ranchi sought more information vide letter dated 11.04.2020 and the same was submitted by Rungta mines Limited (Chaliyama Steel Plant) vide letter no RML/CSP/MOEF/RO/20-21/265 dated 13.05.2020

Thereafter, MOEF&CC Regional Office Ranchi has issued a letter no 103-542/ROR-2018/3957 dated 14.05.2020 (copy enclosed) stating that, *M/s Rungta Mines Limited (Chaliyama Steel Plant) requested Regional Office Ranchi vide letter dated 06.03.2020 (received on 12.03.2020) to certify their compliance report. Requisite documents has been sought vide letter dated 11.04.2020. Reply of the letter dated 11.04.2020 has been submitted on 13.05.2020. The site visit to monitor Chaliyama Steel Plant could not be undertaken due to lock down imposed w.e.t. 25.03.2020 in the wake of out-break of Covid-19 (SARS-Cov-2) Pandemic/Epidemic and now it is proposed to undertake site visit on the earliest opportunity with relaxation of lockdown measure.*

We hope you will find above information/ document is in order. We request you to kindly consider our application for presentation before EAC for grant of enhancement with change in configuration under clause 7(II) of EIA Notifications, 2006.

For Rungta Mines Limited

Vikesh Singh
Jt. Vice President

Enclosed: MOEF&CC RO letter dated 14.05.2020

Registered Office : 8A, Express Tower, 42A - Shakespeare Sarani, Kolkata - 7000 017, WEST BENGAL, INDIA, CIN : U26911WB1962PLC025691
Phone : (033) 22816580, Fax : 91-33-22815380, E-mail : rungta_cal@rungtamines.com
Works : Chaliyama - 833 201, Dist. - Seraikela - Kharswan, JHARKHAND

BY SPEED POST

File No: 103- 542/ROR-2018 / 3957
Government of India
Ministry of Environment, Forest and Climate Change
(Regional Office - Ranchi)

Bungalow No.A-2, Shyamli colony
Ranchi – 834002
Dated: 14.05.2020

To,

The Director,
Impact assessment division- Industry,
Ministry of Environment, Forest and Climate Change,
Indira Paryavaran Bhavan, Jorbagh Road,
Aliganj, New Delhi-110003

Subject: Certified Compliance report for Chaliyama Steel Plant of M/s Rungta Mines Limited-regarding

Reference:

1. E mail from Ministry dated 13.05.2020

Madam/Sir,

Reference is invited to the e mail from Ministry dated 13.05.2020 and Project Proponent request letter dated 06.03.2020 received on 12.03.2020 regarding certified compliance of Environmental Clearance to Chaliyama Steel Plant of M/s Rungta Mines Limited.

2. As per record the following Environmental Clearance has been accorded to this steel plant.

i. First Environmental Clearance was granted by MoEFCC vide letter no. J-11011/838/2007-IA.II (I) dated 04.11. 2008 and amendment vide letter no. J-11011/838/2008-IA.II (I) dated 21.06.2010 for a steel making capacity of 0.2 MTPA.

ii. Second Environmental Clearance for expansion of steel making capacity from 0.20 to 0.50 MTPA was granted by MoEFCC vide letter no J-11011/305/2012-IA II(I) dated 01 April, 2016

iii. Third Environmental Clearance for expansion of Steel making capacity from 0.50 to 0.7 MTPA was granted by MOEF&CC vide letter no J-11011/305/2012-IA II(I) dated 07.08.2018

iv. Fourth Environmental Clearance for expansion of under para 7(II) of EIA notification 2006 and amendment in Environmental Clearance for change in steel making route, change in configuration of power plant and LRF was granted by MOEF&CC vide letter no J-11011/305/2012-IA II(I) dated 28.01.19

v. Fifth Environmental Clearance for change in configuration of pelletisation plant 2x1.32 to 1x2.64 MTPA was granted by MOEF&CC vide letter no J-11011/305/2012-IA II(I) dated 17.06.2019.

Further, the Project has been monitored for certified compliance on 21.11.2012 by Regional Office Bhubneswar, again monitored for Certified Compliance on 14.06.2017 by Regional Office Ranchi and monitored on 19.02.2018 for observation on Partially/Non Complied

Conditions by Regional Office Ranchi. Copies of the reports have already been submitted to the Ministry's IA Division.

3. M/s Rungta Mines Limited (Chaliyama Steel Plant) have requested Regional Office Ranchi vide letter dated 06.03.2020 (received on 12.03.2020) to certify their compliance report. Requisite documents have been sought vide letter dated 11.04.2020. Reply of the letter dated 11.04.2020 has been submitted on 13.05.2020. The site visit to monitor Chaliyama Steel Plant could not be undertaken due to lockdown imposed w.e.f. 25.3.2020 in the wake of outbreak of Covid – 19 (SARS-CoV-2) Pandemic/Epidemic and now it is proposed to undertake site visit on the earliest opportunity with relaxation of lockdown measure.

This is approved by Dy DGF (Central), Regional Office – Ranchi

Yours faithfully,

(Dr. T.H.Mahato)
Scientist 'D'

Copy for information to:

1. Sri Vikash Singh, Joint Vice President, M/s Rungta Mines Limited (Chaliyama Steel Plant) Rungta Chambers, Chaibasa-833201, Jharkhand

Rungta Mines Limited
[CHALIYAMA STEEL PLANT]
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Ref: RML/CSP/MoEF/20-21/243 Date 05.05.2020

To,
Ministry of Environment, Forest and Climate Change
Government of India
Indira Paryavaran Bhawan,
Jorbagh Road, Aliganj,
New Delhi-110003

Kind Attention: Director, Impact Assessment (Industry-1)

Subject: Expansion of Chaliyama Steel Plant located at villages Chaliyama, Bankasai & Kuju in District Saraikela Kharsawan of Jharkhand by M/s Rungta Mines Limited

Reference: Online Proposal No IA/JH/IND/151458/2020

Dear Sir,

This is with reference to the Essential Details Sought (EDS) online dated 21.04.2020 regarding the proposal cited under reference. In the matter, we are submitting our pointwise response hereunder along with required information/ documents for your kind consideration.

Point No 1: Form 2 S.No 9: Certified compliance report is of May 2018 which is already more than one year old. Recent certified report shall be furnished

Response: We has submitted request letter to MOEF&CC RO Ranchi for issuance of certified compliance report vide our letter no. RML/CSP/MoEF(RO)/19-20/6042 dated 06.03.2020. However, from 25.03.2020, nationwide lockdown occurred due to outbreak of COVID-19 and the project could not be monitored by MOEF&CC Regional office, Ranchi. Certified compliance report shall be submitted after resumption of normal operations.

Point No 2: Some of the pages in the attachment are blank and not properly scanned.

Response: The Certified RO report is being uploaded after ensuring that there are no blank pages, which might have occurred during compression of the pdf.

Point No 3: From 2 S.No 15: Actual surface water requirement is 48720 KLD, whereas permission is only available for 15368 KLD. Source for the remaining water requirement and the permission for the water drawl shall be furnished.

Response: Rungta Mines Limited (Chaliyama Steel Plant) obtained permission for drawl of water from the department of water resources Government of Jharkhand for 15369.86 KLD (640 KLH) for which necessary agreement has been executed. Scanned copy of agreement has been uploaded at Sl. 15 of Form 2. Application for additional 8630 KLD (360 KLH) surface water withdrawal permission from Kharkai river is submitted to Directorate of Water Resources, Government of Jharkhand vide our letter no. RML/CSP/F4/19-20/1009 dated 07.06.2019, which is under process. Copy of acknowledgement is also uploaded at Sl. 15 of Form 2.

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Works : Chaliyama - 833 201, Dist - Saraikela - Kharswan, JHARKHAND

A review of the total water consumption has been carried out and changes such use of air cooling in CPP, use of closed water circulation systems instead of open ones in Blast Furnace and Sinter Plant, opting for dry gas cleaning technology in blast furnace, reuse of waste water from CPP in DRI cooling, hot charging of billets in rolling mill (not needing to cool) has reduced the make up fresh water requirement to 1000 KLH or 24,000 KLD compared to 48,720 KLD earlier. The break up of the revised water requirement for enhancement is given in **Table 30** of Revised Pre-feasibility Report uploaded at Sl No. 39(a) of Form 2.

Thus, the sanctioned water as well as the applied for water permission will be sufficient to meet the total water requirement of the plant after enhancement.

Point No 4 : Addendum to the EIA report: Material & Energy balance including Gas volume calculations, Pollution load in a process flow diagram with balance sheet for the entire process units shall be furnished.

Response: Details of Material & Energy balance had been covered in detail in the Prefeasibility Report as follows:

Sl	Facilities	Table no of PFR		Sl	Facilities	Table no of PFR
1	Mini Blast furnace	10		5	SMS	20
2	Sinter Plant	13		6	CCM	22
3	Oxygen plant	15		7	Rolling mill	25
4	DRI	18		8	Pellet plant	28

Gas volume calculation of each stacks are given in Addendum EIA at Table 13. Pollution load for the entire plant has been assessed in Table 13 due to process through Stacks and Table 16 for fugitive emissions. The cumulative resultant GLC is given in Table 17.

Point no 5: Air quality prediction modeling shall be revised by incorporating terrain features of the study area with geo referencing of all the process stacks.

Response: Revised Air quality prediction modeling incorporating terrain features of the study area with geo referencing of all the process stacks has been carried out and given in Enclosure-A to Addendum EIA and summarised in Table 15.

We hope you will find above information/ document is in order. We request you to kindly consider our application for presentation before EAC for grant of enhancement with change in configuration under clause 7(II) of EIA Notifications, 2006

For Rungta Mines Limited
(Chaliyama Steel Plant)

Vikesh Singh
Jt. Vice President

Rungta Mines Limited
(CHALIYAMA STEEL PLANT)
RUNGTA CHAMBERS, CHAIBASA - 833 201, JHARKHAND, INDIA
Phone : (06582) 255261, 255361, Telefax : +91-6582-255461, E-mail : csp@rungtamines.com

Ref: RML/CSP/MoEF/20-21/ Rev Dated 13.04.2020

To,
Ministry of Environment, Forest and Climate Change
Government of India
Indira Paryavaran Bhawan,
Jorbagh Road, Aliganj,
New Delhi-110003

Kind Attention: Director, Impact Assessment (Industry-1)

Subject: Expansion of Chaliyama Steel Plant located at village Chaliyama, Bankasai & Kuju in District Saraikela Kharsawan of Jharkhand by M/s Rungta Mines Limited

Dear Sir,

This is with reference to the above mentioned subject, we would like to submit that Ministry of Environment, Forest and Climate Change, Government of India had accorded Environmental Clearance vide letter no. J-11011/305/2012-IA.II.(I) dated 07.08.2018 and amendment letter dated 28.01.2019 & 17.06.2019 for Chaliyama Steel Plant. Copies of the three environment clearance letters is given in ***Enclosure 1***. The consolidated summary of the sanctioned facilities and production is given in **Table 1**.

TABLE 1: UNITS SANCTIONED IN EC LETTER

Sl. No.	Plant/ facility	Units	Total Sanctioned Capacity
1	DRI plant (8x100 TPD+2x350 TPD)	MTPA	0.658
2	Mini blast furnace (2 x 262 cum)	MTPA	0.458
3	Steel melting shop (i) IF 4X15 T+2x20 T LRF, (ii) IF 4X15 T+1x35 T LRF, (iii) IF 4X15 T+1x35 T LRF	MTPA	0.7854
4	Billets/ Slab/ Bloom caster I, II & III	MTPA	0.7695
5	Continuous Casting Machine	Strand	3x4
6	Rolling Mill (TMT/ Flat/ Round/ Wire Rod/ Structural Mill/ others)		
a	Mill-1	MTPA	0.261
b	Mill-2	MTPA	0.261
c	Mill-3	MTPA	0.217
7	Captive power plant	MW	158
a	WHR based CPP	MW	53
b	AFBC/CFBC based CPP	MW	105
8	Pelletisation Plant	MTPA	2.64
9	Coal Washery	MTPA	1.26
10	Oxygen Plant (1x30 T)	m^3/annum	7,350,000

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Works : Chaliyama - 833 201, Dist. - Seraikela - Kharswan, JHARKHAND

Sl. No.	Plant/ facility	Units	Total Sanctioned Capacity
11	Lime Plant (1X90 T)	m^3/annum	31,500
12	Vacuum Degassing	Tonnes	30
13	Ferro Alloy Plant (9 MVA + 18 MVA)		
a	Ferro Manganese OR	MTPA	0.054
b	Silico Manganese OR	MTPA	0.0432
c	Ferro Chrome OR	MTPA	0.0432
d	Ferro Silicon	MTPA	0.0192
14	Briquette Plant		
	For Ferro chrome OR	MTPA	0.088
	For Ferro manganese	MTPA	0.112
15	Sinter Plant (2X24 sq.m)	MTPA	0.532
16	Coke Oven plant (4 batteries X 70,000 TPA)	MTPA	0.28
17	Producer Gas Plant	NM^3/hr	51,000

Presently following facilities are under operation as given in **Table 2**.

TABLE 2: FACILITIES UNDER OPERATION

Sl. No.	Facilities	Configuration	Production
1	Sponge Iron plant	8x100 TPD	6,58,000 TPA
		2x350 TPD	
2	Steel Melting Shop comprising IF along with CCM and LRF	IF- 8X15 T LRF-2x20T	5,54,400 TPA
3	Rolling Mill 1		2,60,790 TPA
4	Captive power plant		58 MW
	WHRB	33 MW	33 MW
	AFBC	25 MW	25 MW

Facilities under implementation are given in **Table 3**.

TABLE 3: FACILITIES UNDER IMPLEMENTATION

Sl. No.	Facilities	Production	Status as on 6.04.2020
1	Pelletisation Plant	2,640,000 TPA	Under construction
2	SMS comprising IF 4 X 15 T, LRF 2x 35 T & CCM	231,000 TPA	Under construction
3	Rolling Mill 2	2,60,790 TPA	Under construction
4	Captive power plant AFBC/CFBC	2x40 MW	Under construction

Rungta Mines Limited (Chaliyama Steel Plant) proposes change in configuration of Blast Furnace, Sinter Plant and LRF as follows, for which separate application has also been uploaded:

TABLE 4 : PROPOSED AMENDMENT IN CONFIGURATION OF FACILITIES

Sl. No.	Sanctioned capacity as per EC dated 07.08.2018 & 28.01.2019		Proposed Configuration
	Facilities	Configuration	
1	Mini Blast furnace	2x262CuM	1x350 (initial) & upgraded 1 x 524 Cum
2	Sinter plant	2x24 Sq M	1x 48 Sq M
3	LRF		
	SMS I	2x20 T	3x20 T
	SMS II	1x35 T	2x35 T
	SMS III	1x35 T	2x35 T

This proposal is for seeking capacity enhancement of

(a) DRI
(b) SMS
(c) Billets/Slab/Bloom Caster
(d) TMT/Round/Wire Rod/Flat/ Structural/ others
(e) Pelletisation Plant
(f) Oxygen plant
(g) Sinter Plant

There will be no change in following facilities

(a) Captive Power Plant (WHRB & AFBC/CFBC)
(b) Coal Washery
(c) Lime Plant
(d) Vacuum Degassing
(e) Ferro Alloy Plant
(f) Producer Gas Plant
(g) Coke oven plant

The increase in production of DRI is due to improvement of coal quality & consequent increase in feed of Iron ore/ Pellet, which will increase capacities of the forward & backward integrated units in the Chaliyama Steel Plant. It is also proposed to bring additional intermediate product from our other steel plant(s)/unit (s) located in Odisha. Therefore, an enhancement in DRI SMS, Billets caster, Rolling Mill, Sinter Plant, Oxygen Plant and Pelletization Plant is being sought as given in **Table 5,** which also includes the proposed amendment in configuration.

Rungta Mines Limited
(CHALIYAMA STEEL PLANT)
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TABLE 5
MANUFACTURING FACILITIES AS PER EC (07.08.2018, 28.01.2019 & 17.06.2019) AND PROPOSED ENHANCEMENT

SL	Facilities	Units	Total Sanctioned capacity as per ECs	Proposed enhancement Production	Total after enhancement
1	DRI (7x100 TPD)	TPA	318,500	41,825	360,325
	DRI (1x100 TPD)	TPA	45,500	5,975	51,475
	DRI (2x350 TPD)	TPA	294,000	46,800	340,800
	Total		**658,000**	**94,600**	**752,600**
2	Steel Melting Shop (I) (IF 4X15T)+ 3 x20T LRF	TPA	277,200	69,300	346,500
	Steel Melting Shop (II) (IF 4X15T)+ 2x35 T LRF	TPA	277,200	69,300	346,500
	Steel Melting Shop (III) (IF 4X15 T) + 2x35T LRF	TPA	231,000	115,500	346,500
	Total		**785,400**	**254,100**	**1039,500**
3	Billets /Slab/Bloom Caster (I) (CCM 4 strand)	TPA	271,656	67,914	339,570
	Billets /Slab/Bloom Caster (II) (CCM 4 strand)	TPA	271,656	67,914	339,570
	Billets /Slab/Bloom Caster (III) (CCM 4 strand)	TPA	226,380	113,190	339,570
	Total		**769,692**	**249,018**	**1018,710**
4	Rolling Mill (TMT/ Flat/ Round/ Wire Rod/ Structural& others				
	Rolling Mill (I)	TPA	260,790	65,198	325,988
	Rolling mill (II)	TPA	260,790	65,198	325,988
	Rolling mill (III)	TPA	217,325	108,663	325,988
	Total		**738,905**	**239,059**	**997,964**
5	Pelletisation Plant (1X2.64 MTPA)	TPA	**2640,000**	**360,000**	**3000,000**
6	Oxygen plant (1x100T)	M^3/annum	7350,000	19,600,000	26,950,000
7	Sinter plant (1x 48 sq.m)	TPA	532,224	133,056	665,280
8	Mini Blast Furnace 1x350 cum (initial) and upgraded 1x524 cum	TPA	458,500	0	458,500

We wish to submit that company will take the following additional steps for minimization of impact:

(1) Installation of advanced bag filter controllers to improve the efficiency of all bag filters
(2) Solar lighting for all streets and parking area
(3) Fixed water sprinklers will be increased from 72 to 100 nos

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Works : Chaliyama - 833 201, Dist. - Seraikela - Kharswan, JHARKHAND

(4) ESP shall be modified to reduce PM below 50 mg/Nm^3

Accordingly, please find uploaded & enclosed the following:

Enclosure 1: Copy of Environmental Clearances from MOEF&CC vide letter no. J-11011/305/2012-IA.II.(I) dated 07.08.2018, 28.01.2019 & 17.06.2019

Enclosure 2: Form 2 along with Annexures (including addendum EIA, Form-1 & PFR. The Addendum EIA & PFR have been prepared integrated for both change in configuration and enhancement.) List of Attachments to Form 2 are as follows:

Attachment No.	Description
I	Authorization Letter
II	Site on Topo Sheet
III	Certified Compliance Report
IV	Consent to Operate
V	Linkage for Raw Material
VI	Surface water NOC
VII	Wildlife Conservation plan
VIII	Approval letter from PCCF for Wildlife Conservation Plan
IX	Final Layout with Green Belt Plan
X	HC permission to EIA consultant to prepare & present
XI	Pre Feasibility Report
XII	Addendum EIA with Annexures
XIII	Form 1 with Annexures

We hope you will find the above in order and process our case for grant of enhancement under clause 7(ii) of EIA Notification 2006.

Thanking you,
Yours Faithfully,

For Rungta Mines Limited
Chaliyama Steel Plant

Vikesh Singh
Jt. Vice President

Enclose: as above

ENCLOSURE : I

F. No. J-11011/305/2012-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira ParyavaranBhawan
Jor Bagh Road, AliganJ,
New Delhi - 110003
E-mail: sharath.kr@gov.in
Tel: 011-24695319
Dated: 7th August, 2018

To

Jt.Vice President,
M/s Rungta Mines Ltd.,
Rungta Chambers, Chaibasa,
Jharkhand – 833 201

Subject: Expansion of Integrated Steel Plant from 0.5 MTPA to 0.7 MTPA by M/s Rungta Mines Limited located at Village Chaliyama in Saraikela, Ditrict Kharswan of Jharkhand.- Environmental Clearance regarding.

Sir,

This has reference to your online application vide proposal no. **IA/JH/IND/86904/2016**, dated 25th May 2017 along with copies of EIA/EMP report seeking environmental clearance under the provisions of the EIA Notification, 2006 and communication received from Project Proponent vide letters dated 24th May 2017, 24th August 2017, 25th May 2018 and 19th June 2018 for the project mentioned above. The proposed project activity is listed at Sl. No. 3(a) Metallurgical industries (ferrous & non-ferrous), under category 'A' of the Schedule of EIA Notification, 2006 and is appraised at the Central Level.

2.0 The proposal for expansion of Integrated Steel Plant from 0.5 MTPA to 0.7 MTPA by **M/s Rungta Mines Limited** located at Village Chaliyama in SaraikelaDitrictKharswan of Jharkhand was initially received in the Ministry on 30th June 2016 for obtaining Terms of Reference (ToR) as per EIA Notification, 2006. The proposal was appraised by the Expert Appraisal Committee (Industry) [EAC(I)] during its 9th meeting held on 27th to 29th July 2016 and recommended for grant of prescribing ToRs to the project for undertaking detailed EIA study for obtaining environmental clearance. Accordingly, the Ministry had prescribed ToRs to the project on 18th October 2016 vide File No. J-11011/305/2012-IA-II(I).

3.0 M/s Rungta Mines Limited (RML) operating Sponge Iron Unit at Village Chaliyama in Saraikela District Kharswan of Jharkhand since 2007 comprising of 7 Nos. X 100 TPD DRI Kilns with No Objection Certificate (NoC) vide letter no. N-346 dated 25.05.2005 from Jharkhand

State Pollution Control Board. Thereafter, RML obtained Environmental Clearance from Ministry vide J-11011/305/2012-IA-II(I) dated 4th November 2008 and further commissioned 2,00,000 TPA Steel Melting Plant and Captive Power Plant of 39 MW capacity. From total capacity of CPP, 14 MW CPP is utilizing the heat energy of the flue gas for steam generation by installing Waste Heat Recovery Boiler (WHRB) for each Kiln replacing the Heat Exchanger and 25 MW coal based AFBC which is under operation. Further, M/s RML was proposed for expansion of Integrated Steel plant from 0.2 MTPA to 0.5 MTPA and obtained prior environmental clearance on 1st April 2016. It was reported that some of the facilities which were envisaged in the EC were under construction and some are yet to start. The status of compliance of earlier environmental compliance was obtained from Regional Office Ranchi vide letter no. 103-498/ROR-2016/1375 dated 24.07.2017.

4.0 Now, it is proposed to expand the Integrated Steel Plant from 0.5 MTPA to 0.7 MTPA in the existing premises. The details of the existing plant, proposed expansion is given below:

Sl. No.	Plant/ facility	Units	Present sanctioned capacity as per EC dated 01.04.2016	Additional Proposed Capacity	Total Capacity
1	DRI plant	MTPA	0.450	0.17	0.62
2	Mini blast furnace	MTPA	0.383	0.075	0.458
3	Steel melting shop, IF (15T x 8 nos.) LRF (20T x 1 nos.,30 T X 2 no.) EAF (30 T X 1 no.)	MTPA	0.50	0 193	0.693
4	Billets/ Slab/ Bloom caster	MTPA	0.30	0.379	0.679
5	Continuous Casting Machine		3x3 strand	1 strand	3X4 strand
6	Rolling Mill (TMT/ Flat/ Round/ Wire Rod/ Structural Mill/ others)				
a	Mill-1	MTPA	0.20	0.02	0.22
b	Mill-2	MTPA	0.30 (Flat/ Round/ Structural)	0 (adding facility for TMT/ wire rod/ other)	0.22
c	Mill-3	MTPA	0	0.22	0.22
7	Captive power plant	MW	119	39	158
a	WHR based CPP	MW	32	21	53
b	AFBC/CFBC based CPP	MW	87	18	105
8	Pelletisation Plant	MTPA	2 nos. X 1.2	0.24	2.64

Sl. No.	Plant/ facility	Units	Present sanctioned capacity as per EC dated 01.04 2016	Additional Proposed Capacity	Total Capacity
9	Coal Washery	MTPA	1.26	No change	1.26
10	Oxygen Plant (1x30 T)	m³/annum	69,30,000	4,20,000	7,350,000
11	Lime Plant (1X90 T)	m³/annum	29,700	1,800	31,500
12	Vacuum Degassing	Tonnes	30	No change	30
13	Ferro Alloy Plant (9MVA+18 MVA)				
a	Ferro Manganese OR	MTPA	-	9 MVA=0.018 18 MVA= 0.036	0.054
b	Silico Manganese OR	MTPA	-	9 MVA = 0.0144 18 MVA= 0.0288	0.0432
c	Ferro Chrome OR	MTPA	-	9 MVA = 0.0144 18 MVA= 0.0288	0.0432
d	Ferro Silicon	MTPA	-	9 MVA = 0.0064 18 MVA= 0.0128	0.0192
14	Briquette Plant				
	For ferro chrome OR	MTPA	-	0.088	0.088
	For ferro manganese	MTPA	-	0.112	0.112
15	Sinter Plant (2X24 sq.m)	MTPA	-	0.532	0.532
16	Coke Oven plant (4 batteries X 70,000 TPA)	MTPA	0	0.28	0.28
17	Producer Gas Plant	NM3/hr	0	51,000	51,000

5.0 The total land required for the expansion project is 592.16 acres. No forestland is involved.

6.0 No river passes through the project area. It has been reported that natural water body exist around the project and modification/diversion in the existing natural drainage pattern at any stage has not been proposed.

7.0 The topography of the area is flat and reported to lie between 22°34'17" to 22°35'49" N Latitude and 85°53'07" to 85°54'49" E Longitude in Survey of India topo sheet No. 73 F/14 15 73-J/2 &3, at an average ground elevation of 198 m above mean sea level. The ground water table

reported during post monsoon season and 6 to 10 m below ground during pre-monsoon season. Further, the stage of groundwater development is reported to be 8.40 % in study area and thereby this is designated as safe area.

8.0 Dalma Wildlife Sanctuary located at a distance of 49 km in NE and Simpli Pal National Park is at 83 km in SSE from the site. No national park/wildlife sanctuary/biosphere reserve/tiger reserve/elephant reserve etc. are reported in the core and buffer zone of the project. The area also does not report to form corridor for Schedule-I fauna.

9.0 The process of manufacturing will be steel through the pelletisation /DRI –IF-EAF as well as Blast Furnace route. There will be installation of Blast furnace (0.458 MTPA), expansion of sponge iron plant (from 0.45 to 0.62 MTPA), sinter plant (0.532 MTPA), coke oven plant (0.28 MTPA), SMS (0.50 to 0.693 MTPA), Billet caster (0.3 MTPA to 0.679 MTPA), CCM (3x3 strand to 3x4 strand), Rolling mill (0.50 to 0.66 MTPA with revised configuration), WHRB based CPP (32 to 53 MW), AFBC/CFBC based CPP (87 to 105 MW), producer gas (51000 NM3/hr) Oxygen plant (6930000 to 7350000 Nm3/annum), Lime plant (29700 to 31500 m3/annum), Pelletisation Plant (2.64 MTPA), Coal washery (1.26 MTPA), Ferro Alloys Plant (9MVA+ 18 MVA).

10.0 The raw materials to be used for existing as well as expansion phase will be 3.35 million TPA of iron ore, 1.26 million TPA of coal.

11.0 Of the various solid wastes generated in the plant, 100% recycling/ reusing will be done for sponge iron plant dust, char, sinter plant dust, blast furnace slag, blast furnace sludge & flue dust, SMS slag & flue dust, rolling mill rejects & mill scales and coke oven dust. Ash will be generated from producer gas plant and captive power plant which will be disposed of as per the action plan submitted in compliance to the Fly Ash Notification.

12.0 The targeted production capacity of the crude steel from SMS is 0.70 million TPA. The iron ore for the plant would be procured from company's own mines located in Odisha/ Jharkhand Limestone, quartzite, dolomite will be purchased from Raurkela and manganese ore will be sourced from own mines located in Odisha. The ore transportation will be done through rail followed by road.

13.0 The water requirement for the expansion project is estimated to be 1778 m^3/hr and sourced from Kharkai River. The permission for drawl of water from Kharkai River for 5000 m^3/day from River Kharkai and additional quantity 432 m^3/day through an agreement made on 11.05.2016.

14.0 The power requirement for the expansion project is estimated to be around 143 MW and the total requirement including expansion will be met from the captive power plant comprising of WHRB (53 MW) and AFBC/CFBC (105 MW). Balance power will be sold through grid.

15.0 Baseline Environmental studies were conducted during post monsoon season i.e. from October to December 2016. Ambient Air Quality monitoring has been carried out at 8 locations during October to December 2016 and the data submitted indicated: PM_{10}(40.2 to 83.4 µg/m^3), $PM_{2.5}$ (22.1 to 48.9 µg/m^3), SO_2(BDL to 20.0 µg/m^3) and NO_x(BDL to 29.8 µg/m^3). The results of the modeling study indicated that the maximum increase of GLC for the proposed expansion project is 1.49 µg/m^{3}with respect to PM10, 0.27 µg/ m^3 for PM2.5 and 6.6 µg/m3 for SO_2.

16.0 Ground water quality has been monitored in 8 locations in the study area and analysed. pH: 7.2-7.8;Total hardness: 160 - 464 mg/l; Chloride: 29-116 mg/l;Fluoride: 0.71- 1.86 mg/l; Heavy metal are well within the limits. Surface water samples have been monitored in 8 locations in the study area. pH: 7.4-8.1, DO: 6.8 to8.5 mg/l, BOD: 5-10 mg/l and COD: 10-23 mg/l.

17.0 Noise level are in the range of 50.7 dB(A) to61.68 dB(A) for day time and 39.88 to 58.68 dB(A) for night time.

18.0 It has been reported that there are no people in the core zone of the project. No R&R is involved. No family is to be rehabilitated. Land losers will be given preference in employment.

19.0 It has been reported that a total of 1.2 million tons of waste will be generated due to the existing and expansion phase of the project, out of which 0.31 million tons will be reused used in sinter plant, 0.11 million tons per annum of char shall be used in AFBC based power generation. 0.40 MTPA of fly ash will be utilize in cement plant/ Brick manufacturing unit, 0.12 million tons per annum of BF Slag will be utilized in cement manufacturing, 0.093 million tonnes of ash will be utilized in low land filling, 0.094 MTPA of rejects shall be backfilled in mines and balance 0.073 million tons per annum will be land filled.

20.0 It has been reported that the Consent to operate from the Jharkhand State Pollution Control Board has been obtained vide letter No. JSPCB/HO/RNC/CTO-1047382/2017/154 dated 20.02.2017 and consent is valid up to 31.03.2020.

21.0 The Public Hearing of the project was held on 14.06.2017 at the ground of Utkramit Madhya Vidyalya, Village Chaliyama under the Chairmanship of Shri Kunj Bihari Pandey (Additional District Magistrate, District Saraikela Kharswan) for expansion of integrated steel plant from

0.50 to 0.70 million TPA. The issues raised during public hearing inter alia include employment opportunity; provision of health care & water supply facility; pollution control measures; compensation to the land losers; etc. An amount of 4 crores and recurring expenditure of Rs. 53 55 lakhs/year is earmarked for Corporate Environment Responsibility.

22.0 The capital cost of the project is Rs. 2189.97 Crores and the capital cost for environmental protection measures is proposed as Rs. 35.34 Cr. The annual recurring cost towards the environmental protection measures is proposed as Rs. 7 31 Cr. per annum

The total employment generation from the existing and proposed project / expansion is 1830.

23.0 The total employment generation from the existing and proposed project / expansion is 1830.

24 0 Green belt will be developed in 195.41 acres (79.08 ha) which is about 33 % of the total area. A 10-m wide green belt, consisting of at least 3 tiers around boundary will be developed as green belt and green cover with local and native species as per CPCB/MOEF&CC guidelines with a density of 2500 trees per ha.

25.0 The proponent has mentioned that there is no court case or litigation pending on the project or related activity.

26.0 The EIA consultant for the present proposal is M/s Min Mec Consultancy Private Limited. It was reported that the M/s Min Mec is preparing and presenting reports as per the High Court of Delhi orders in LPA 110/2014 and CM No.2175/2014 (stay) and W.P.(C) 3665/2016.

27.0 The proposal was considered in the 21st meeting Expert Appraisal Committee held during 10th -11th August 2017 and further considered in 22nd meeting of Expert Appraisal committee held during 11th to 13th September 2017 and in the 32nd meeting of Expert Appraisal committee held during 11th to 13th June 2018. After detailed deliberations, the committee recommended for grant of the Environmental Clearance.

28.0 The Ministry of Environment, Forest and Climate Change has considered the application based on the recommendations of the Expert Appraisal Committee (Industry-I) and hereby decided to grant Environmental Clearance under the provisions of EIA Notification, 2006 as amended from time to time subject to the following specific and general conditions:

A. Specific conditions:

1) The PP shall comply with the commitments made in compliance of earlier EC conditions by December 2018 which will be verified by the RO.

2) The PP shall further strengthen the environmental cell with at least four qualified persons (as committed by the pp during the presentation) within a period of six months from the of date issue of EC.

3) 100 % utilization of the solid waste shall be achieved.

4) The entire greenbelt shall be developed during the first year of the implementation of the proposed expansion.

5) The PP shall construct dedicated road from NH to Plant through Banksai Village within 12 months from the date of issue of EC and existing approach road to the plant premises shall be doubled.

6) The PP shall not obstruct the natural drainage within plant premises. Along the internal roads of the plant, storm water drains shall be provided for direct flow of the rainwater from east side of plant into Kharkhai in west. The roads shall have culverts to ensure free flow. The eastern wall shall have bottom holes for allowing rain water from higher elevation to pass through the plant.

7) The PP shall provide access over bridge from Bankasai village to Kharkai River in consultation with the local Panchayat.

B. General Conditions:

1) An amount of as per the Office Memorandum of the Ministry vide F.No. 22-65/2017.IA.III dated 1st May 2018 towards Corporate Environmental Responsibility (CER) shall be utilized as capital expenditure in project mode. The project shall be completed in concurrence with the implementation of the expansion and estimated on the basis of Scheduled Rates.

2) Green belt shall be developed in an area of 79.08 Ha (195.41 Acers)equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.

3) The Capital cost Rs. 35.34 Crores and annual recurring cost Rs. 7.31 Crores towards the environmental protection measures shall be earmarked separately. The funds so provided shall not be diverted for any other purpose.

4) The project proponent shall (Air Quality Monitoring).

a. install 24x7 continuous emission monitoring system at process stacks to monitor stack emission 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.

b. monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.

c. Install system carryout to Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM_{10} and $PM_{2.5}$ in reference to PM emission, and SO_2 and NOx in reference to SO_2 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;

d. install cameras at suitable locations for 24X7 recording of battery emissions on the both sides of coke oven batteries and videos shall be preserved for at least one-month recordings;

e. provide sampling facility at process stacks and at quenching towers as per CPCB guidelines for manual monitoring of emissions;

f. 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.

5) The project proponent shall (Water Quality Monitoring):

a) 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 recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.

b) 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; and

c) submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.

6) The project proponent shall (Air Pollution Control):

a) provide appropriate Air Pollution Control (APC) system for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards;

b) provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags;

c) provide secondary emission control system at SMS Converters;

d) provide pollution control system in the steel plant as per the CREP Guidelines of CPCB;

e) provide sufficient number of mobile or stationery vacuum cleaners to clean plant roads, shop floors, roofs regularly;

f) 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;

g) use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin;

h) provide facilites for spillage collection for coal and coke on wharf of coke oven batteries (Chain conveyors, land based industrial vacuum cleaning facility);

i) install land-based APC system to control coke pushing emissions;

j) also monitor CO, HC and O_2 in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber;

k) provide vapour absorption system in place of vapour compression system for cooling of coke oven gas in case of recovery type coke ovens;

l) in case concentrated ammonia liquor is incinerated, adopt high temperature incineration to destroy Dioxins and Furans. Suitable NOx control facility shall be provided to meet the prescribed standards;

m) the coke oven gas be subjected to desulphurization if the sulphur content in the coal exceeds 1%;

n) provide wind shelter fence and chemical spraying on the raw material stock piles; and

o) design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars

7) The project proponent shall (Water Pollution Control):

a) provide the ETP for coke oven and by-product to meet the standards prescribed in 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 as amended from time to time;

b) adhere to 'zero liquid discharge';

c) provide Sewage Treatment Plant for domestic wastewater;

d) provide garland drains and collection pits 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;

e) provide tyre washing facilities at the entrance of the plant gates;

f) introduce CO_2 injection in GCP of SMS to reduce pH in circulating water to ensure optimal recycling of treated water for converter gas cleaning; and

8) The project proponent shall (Water conservation).

a) practice rainwater harvesting to maximum possible extent;

b) not use treated water from ETP of COBP for coke quenching;

c) provide water meters at the inlet to all unit processes in the steel plants; and

d) make efforts to minimize water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.

9) The project proponent shall (Energy Conservation):

a) provide TRTs to recover energy from top gases of Blast Furnaces;

b) provide CDQ for coke quenching for both recovery and non-recovery type coke ovens;

c) practice waste heat recovery from Sinter Plants coolers and Sinter Machines;

d) use torpedo ladle for hot metal transfer as far as possible. If not use ladles covers for open top ladles;

e) use hot charging of slabs and billets/blooms as far as possible;

f) provide waste heat recovery systems in all units where the flue gas or process gas exceeds 300°C;

g) explore feasibility to install WHRS at Waste Gases from BF stoves; Sinter Machine; Sinter Cooler, and all reheating furnaces and if feasible shall be installed;

h) restrict Gas flaring to < 1%;

i) 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;

j) provide LED lights in their offices and residential areas; and

k) ensure installation of regenerative type burners on all reheating furnaces.

10) The project proponent shall install Dry Gas Cleaning Plant with bag filter for Blast Furnace and SMS converter. (*to be decided on case to case basis depending on type and size of plant*)

11) An attrition grinding unit to improve the bulk density of BF granulated slag from 1.0 to 1.5 Kg/l shall be installed to use slag as river sand in construction industry.

12) Dry quenching (CDQ) system shall be installed along with power generation facility from waste heat recovery from hot coke.

13) In case of Non-Recovery coke ovens, the gas main carrying hot flue gases to the boiler, shall be insulated to conserve heat and to maximize heat recovery.

14) Tar Sludge and waste oil shall be blended with coal charged in coke ovens (applicable only to recovery type coke ovens).

15) Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.

16) Waste recycling Plant shall be installed to recover scrap, metallic and flux for recycling to sinter plant and SMS.

17) Used refractories shall be recycled as far as possible.

18) SMS slag after metal recovery in waste recycling facility shall be conditioned and used for road making, railway track ballast and other applications. The project proponent shall install a waste recycling facility to recover metallic and flux for recycle to sinter plant. The project proponent shall establish linkage for 100% reuse of rejects from Waste Recycling Plant.

19) 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office

20) 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.

21) Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.

22) 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.

23) The project proponent shall adhere to the corporate environmental policy and system of the reporting of any infringements/ non-

compliance of EC conditions at least once in a year to the Board of Directors and the copy of the board resolution shall be submitted to the MoEF&CC as a part of six-monthly report.

24) All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Iron and Steel plants shall be implemented.

25) A dedicated environmental cell with qualified personnel shall be established. The head of the environment cell shall report directly to the head of the organization.

26) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

27) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.

28) 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).

29) The waste oil, grease and other hazardous waste like acidic sludge from pickling, galvanising, chrome plating mills etc. shall be disposed of as per the Hazardous & Other waste (Management &Transboundary Movement) Rules, 2016. Coal tar sludge / decanter shall be recycled to coke ovens.

30) 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

31) 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.

32) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

33) The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.

34) Kitchen waste shall be composted or converted to biogas for further use (to be decided on case to case basis depending on type and size of plant)

35) The project proponent shall (Post-EC monitoring):

a. send a copy of environmental clearance letter to the heads of Local Bodies, Panchayat, Municipal bodies and relevant offices of the Government;

b. put on the clearance letter on the web site of the company for access to the public.

c. inform the public through advertisement within seven days from the date of issue of the clearance letter, at least in two local newspapers

that are widely circulated in the region of which one shall be in the vernacular language that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forests and Climate Change (MoEF&CC) at http:/envfor.nic.in.

d. upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same periodically;

e. 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;

f. submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB;

g. 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;

h. inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.

29.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

30.0 The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

31.0 The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and that during their presentation to the EAC. The commitment made by the project proponent to the issue raised during Public Hearing shall be implemented by the proponent.

32.0 The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

33.0 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.

This issues with the approval of Competent Authority

(Sharath Kumar Pallerla)
Scientist 'F' / Director

Copy to:-

1. **The Secretary**, Department of Environment& Forests, Government of Jharkhand, Secretariat Ranchi.
2. **The Additional Principal Chief Conservator of Forests**(C), Ministry of Environment and Forest, Regional Office (EC2), Bungalow No. A-2, Shyamali Colony, Ranchi-834002
3. **The Chairman**, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
4. **The Chairman**, Jharkhand State Pollution Control Board, CTI Colony, Sector 4, Birsa Nagar, Ranchi, Jharkhand 834004
5. **The Member Secretary**, Central Ground Water Authority, A-2, W3, Curzon Road Barracks, K.G. Marg, New Delhi-110001.
6. **The District Collector**, District Ramgrah, Jharkhand.
7. **Guard File / Record file / Monitoring file.**
8. **MOEF&CC Website.**

(Sharath Kumar Pallerla)
Scientist 'F'/Director

F. No. J-11011/305/2012-IA.II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira ParyavaranBhawan
Jor Bagh Road, Aliganj,
New Delhi – 110003

E-mail: sharath.kr@gov.in
Tel: 011-24695319

Dated: 28th January, 2019

To

Shri Vikesh Singh,
Director,
M/s. Rungta Mines Limited,
Chaliyama Steel Plant,
Rungta Chambers,
Chaibasa – 833201.

Email: csp@rungtamines.com; Tel: 033-22816580

Subject: Enhancement of DRI from 620400 TPA to 658000 TPA, SMS 1 & 2 production from 2,31,000 TPA to 2,77,200 TPA (each), Billets / Slab/Bloom Caster 1 & 2 production from 2,26,380 TPA to 2,71,656 TPA (each) at Integrated Steel Plant of 0.7 MTPA located at village Chaliyama, District Saraikela Kharsawan, Jharkhand by M/s. Rungta Mines Limited – **Environmental Clearance for expansion under para 7(ii) of the EIA Notification, 2006 and amendment in Environmental Clearance for change in steel making route, change in configuration of power plant and LRF –reg.**

Sir,

This refers to the application of M/s. Rungta Mines Limited made vide proposal no. IA/JH/IND/81425/2018 and IA/JH/IND/81423/2018 dated 5/10/2018 seeking environmental clearance for expansion under para 7(ii) of the EIA Notification, 2006 and amendment in environmental clearance for change in steel making route, change in configuration of power plant and LRF for the project mentioned above. The proposed project activity is listed at Sl. No. 3(a) Metallurgical Industries (Ferrous and Non-ferrous) under Category "A" EIA Notification, 2006 and the proposal is appraised at Central level.

The proposal cited above was considered during the 1st meeting of Reconstituted Expert Appraisal Committee [REAC] (Industry-I) held on 26-28th November, 2018. The EAC proceedings of the proposal cited above is given as below.

Details submitted by the project proponent

2.0 M/s. Rungta Mines Limited is operating 0.45 MTPA DRI, 0.40 MTPA Steel and 57 MW Power Plant at Chaliyama, Saraikela Kharsawan, Jharkhand. Environmental Clearance for above mentioned existing plant is granted by MOEF vide Letter no. J-11011/838/2007-IA.II (I) dated 04.11.2008. Thereafter, the Company had applied for expansion of Steel Plant from 0.2 to 0.5 MTPA and from 0.5 to 0.7 MTPA received EC from MoEF&CC vide letter no. J-11011/305/2012-IA.II (I) dated 01.04.2016 and 07.08.2018 respectively. The details are given below in Table 1:

Sl. No.	Plant/ facility	Units	Total Capacity As per EC dated 07.08.2018
1	DRI Plant	MTPA	0.62
2	Mini Blast Furnace	MTPA	0.458
3	Steel Melting Shop, IF (15T x 8 nos.) LRF (20T x 1 nos., 30 T X 2 no.) EAF (30 T X 1 no.)	MTPA	0.693
4	Billets/ Slab/ Bloom caster	MTPA	0.679
5	Continuous Casting Machine		3X4 strand
6	Rolling Mill (TMT/ Flat/ Round/ Wire Rod/ Structural Mill/ others)		
a	Mill-1	MTPA	0.22
b	Mill-2	MTPA	0.22
c	Mill-3	MTPA	0.22
7	Captive Power Plant	MW	158
a	WHR based CPP	MW	53
b	AFBC/CFBC based CPP	MW	105
8	Pelletisation Plant	MTPA	2.64
9	Coal Washery	MTPA	1.26
10	Oxygen Plant (1x30 T)	m^3/annum	7,350,000
11	Lime Plant (1X90 T)	m^3/annum	31,500
12	Vacuum Degassing	Tonnes	30
13	Ferro Alloy Plant (9MVA+ 18 MVA)		
a	Ferro Manganese OR	MTPA	0.054
b	Silico Manganese OR	MTPA	0.0432
c	Ferro Chrome OR	MTPA	0.0432
d	Ferro Silicon	MTPA	0.0192
14	Briquette Plant		
	For Ferro Chrome OR	MTPA	0.088
	For Ferro Manganese	MTPA	0.112
15	Sinter Plant (2X24 sq.m)	MTPA	0.532
16	Coke Oven Plant (4 batteries X 70,000 TPA)	MTPA	0.28
17	Producer Gas Plant	NM3/hr	51,000

3.0 Project proponent informed that presently following facilities are under operation given in following table:

S.L	Facilities	Configuration	Production
1	Sponge Iron plant	8x100 TPD	6,20,400 TPA
		2x350 TPD	
2	Steel Melting Shop comprising IF along with CCM	8 X 15 T	4,62,000 TPA
3	Rolling Mill I		2,17,325 TPA
4	Captive Power Plant		
	WHRB	32MW	32 MW
	AFBC	25 MW	25 MW
	TG	2x20 MW +1x20 MW	

4.0 The Eastern Central Zone Office of MoEF&CC has visited the plant and issued a compliance status report vide letter no. 103-498/ROR-2016 dated 22.05.2018

5.0 **Enhancement in Plant Capacity:** Environmental clearance for enhancement in DRI, SMS, Billets and Rolling Mill production is being sought as follows (Application No. IA/JH/IND/81423/2018 dt. 05.10.2018): The project proponent has submitted that with the improvement of operational practice, it is able to achieve the 350 days campaign of DRI Kiln instead of 330 days sanctioned in earlier EC. In the past operational experience, the single heat of LF. could take 2 hours 10 minutes. By using superior quality of raw material, improved operational efficiency and availability of uninterrupted power in the future, we can take the heat in short time from one mentioned above. The heat timing can be reduced from 2 hours 10 minutes to 1 hour 48 minutes. The total saving in each heat will be 22 minutes. So, it is possible to take more 2.3 heats of Induction Furnaces per day which amounts to 20% increase in production.

6.0 Therefore, an enhancement in DRI, SMS, Billets and Rolling Mill production is being sought.

Facilities	units	Production capacity as per EC dt. 07.08.2018	Proposed Amendment in production	Enhancement
DRI(7x100 TPD)	TPA	300,300	318,500	18,200 (6.06%)
DRI (1x100 TPD)	TPA	42,900	45,500	2600 (6.060%)
DRI(2x350 TPD)	TPA	277,200	294,000	16,800 (6.06%)
Steel Melting Shop(I) (IF 4X15 T)	TPA	2,31,000	2,77,200	46,200 (20%)
Steel Melting Shop(II) (IF 4X15 T	TPA	2,31,000	2,77,200	46,200 (20%)
Billets / slab/bloom caster (I)	TPA	2,26,380	2,71,656	45,276 (20%)
Billets / slab/bloom caster (II)	TPA	2,26,380	2,71,656	43,465 (20%)
Rolling mill (I) (TMT/flat/Round/wire rod/ structural mill/others)	TPA	2,17,325	2,60,790	43,465 (20%)
Rolling mill (II)	TPA	2,17,325	2,60,790	43,465 (20%)

Facilities	units	Production capacity as per EC dt. 07.08.2018	Proposed Amendment in production	Enhancement
DRI(7x100 TPD)	TPA	300,300	318,500	18,200 (6.06%)
DRI (1x100 TPD)	TPA	42,900	45,500	2600 (6.060%)
DRI(2x350 TPD)	TPA	277,200	294,000	16,800 (6.06%)
(TMT/flat/Round/wire rod/ structural mill/others)				

7.0 Change in Plant Configuration:

a. **The amendment in Environmental clearance for change in steel making route from EAF to IF is as follows (Application No. IA/JH/IND/81425/2018 dt. 05.10.2018):**

Project proponent submitted as per EC, that the sanction is for Steel Melting Shop (SMS) is for IF (15T x 8 nos.), LRF (20T x 1 nos., 30 T X 2 nos.) and EAF (30 T X 1 no.). It was intended to establish the SMS in three stages of 2,31,000 TPA as follows:

(i) SMS-I : IF (15T x 4 nos.), LRF (20T x 1 no.)

(ii) SMS-II : IF (15T x 4 nos.), LRF (30T x 1 no.)

(iii) SMS-III : EAF (30T x 1 nos.), LRF (30T x 1 no.)

Now the proposal is to change the SMS-3 EAF-LRF route to IF-LRF route as described below

Changes in material balance and raw material due to change in steel making route from EAF-LRF to IF-LRF is given in Table 3.

8.0 Revised material balance for SMS from EAF to IF route

Manufacturing Route	Existing Plan as per sanctioned EC		Revised proposal	
	SMS (EAF-LRF)		SMS (IF-LRF)	
Assumptions	Unit	Quantity	Unit	Quantity
Furnace Quantity	Nos.	1	Nos.	4
Capacity of Furnace	Ton	30	Ton	15
No. of working days	Days/Annum	350	Days/Annum	350
No. of working hours	Hours /Day	24	Hours /Day	24.000
No. of Heats	Heats/Day	22	Heats/Day	11
Total Production	TPA	2,31,000		2,31,000
Raw Material Inputs	Quantity (TPA)	Specific Consumption (T/T)	Quantity (TPA)	Specific Consumption (T/T)
DRI	108706	0.471	217412	0.941

Manufacturing Route	Existing Plan as per sanctioned EC		Revised proposal	
	SMS (EAF-LRF)		SMS (IF-LRF)	
Pig Iron/ hot metal	150652	0.652	25109	0.109
Steel scrap	0	0.000	25109	0.109
Total	259358	1.123	267629	1.159
Outputs	Quantity (TPA)	Specific Generation/ Production (T/T)	Quantity (TPA)	Specific Generation/ Production (T/T)
Liquid metal to CCM	231000	1.000	231000	1.000
Slag	11343	0.049	14652	0.063
Loss	28358	0.123	36629	0.159
Total	259358	1.123	267629	1.159

9.0 The advantages of Induction Furnace (IF) over an Electric Arc Furnace (EAF) foreseen for the same production capacity of 2,31,000 TPA are given below:

- EAF requires graphite electrodes for its operation which are not easily available and also their cost has increased from Rs. 1.8 to 8-9 lakh/t. The lack of easy availability and increase in cost affects the production and increases the operating expenditures (Opex). Thus, IF is being preferred now.

- The operation of an EAF imposes voltage fluctuation on the electrical net-work along with harmonic generation. It cannot run without the 132 KV Grid power availability. There are frequent power cuts at site which affect the production. The in-house power plant has already started generating 57 MW and it is planned to set-up the Plant for balance Power required gradually as per EC sanction, to become self-sufficient for power required in SMS, Rolling Mills & Pellet Plant. Four IFs each of 15 T, capacity are planned to replace by a single 30 T EAF, to ensure smooth uninterrupted operation of the plant with Captive Power. However, Grid support shall be maintained.

- From operation point of view, IF route is more advantageous than EAF route because if the single sanctioned EAF (of 30T) fails, entire SMS will be shut down & production will stall. However, in revised proposal, there are four nos. of IFs proposed. If anyone gets shut down, the production will be hampered by only 25% & SMS can achieve 75% of target production.

- In EAF route of steel making, lime and oxygen are required for removing impurities, for which installation of a Lime & Oxygen Plant is necessary. However, in IF route, there is no need of Oxygen & Lime plant, which reduces the investment cost.

- Other operating advantages offered by IFs are as follows:

    - Higher yield of 2-3% from charge to liquid steel, which is used in CCM. In an EAF, the material is lost in evaporation under effect of arcs and high

temperature of 3600°C under them. Also there is direct loss in fume suction. In IF, temperature never rises above 1650°C.

- Less consumption of de-oxidizers and alloying elements by 2-3 kg/t of Liquid Steel. This is due to lesser oxygen content in the metal as compared to EAF where oxygen is used to assist melting.

- IF is more efficient in transfer of electric energy into the charge materials through induction affect. Also, there is motion of liquid steel to homogenize the temperature in the bath and ensure better heat-transfer.

10.0 Amendment in configuration of LRF

Phase	**As per sanctioned EC dated 07.08.2018**	**To be installed after change in configuration**	
	LRF	**LRF**	**Remarks**
SMS I	1x20 T	2x20 T	Revised Configuration
SMS II	1x30 T	1x35 T	Revised Configuration
SMS III	1x30 T	**1x35 T**	Revised Configuration

The present sanctioned capacity of all above three SMS stages is 2,31,000 TPA.

11.0 Amendment in configuration of power plant: Project proponent to change the configuration of TG sets in phase-III from 5 nos. X20 MW to 1 no. X 20 MW + 2 nos. X 40MW as shown below:

Phase	As per sanctioned EC dated 07.08.2018			To be installed after change in configuration			
	No of TG sets Units	Generation Capacity (In MW)	Total Power (In MW)	No of TG sets Units	Generation Capacity (In MW)	Total Power (In MW)	Remarks
Phase-I	2 Nos.	20	40	2 Nos.	20	40	No Change
Phase-II	1 No.	20	20	1 No.	20	20	No Change
Phase-III	5 Nos.	20	100	1 No.	20	20	Proposed Revision
				2 Nos.	40	80	
Total Power Generation			160			160	

12.0 The total water consumption as per sanctioned EC is 1778 cum/hr and additionally 49.9 cum/hr water will be required for implementation of entire expansion proposal. The water required for the plant shall be sourced from Kharkai River. Entire waste water from the SMS complex shall be treated and reused for afforestation, green belt watering, sprinkling and dust suppression. There shall be no liquid waste discharge from the plant premises except during monsoon when the sprinkling and watering demand will be almost negligible.

13.0 The plant will generate 158 MW energy in form of electricity from its captive power plant and the requirement of Power will be 147.17 MW.

14.0 Following additional steps for minimization of impact will also be taken:

- Installation of advanced bag filter controllers to improve the efficiency of all bag filter

- Solar lighting for all streets and parking area
- 5% increase in green belt plantation within project boundary i.e. from the current 33% of project area.

15.0 Name of the Consultant: M/s Min Mec Consultancy Pvt. Ltd., New Delhi with permission from High Court of Delhi vide in LPA 110/2014 and CM No.2175/2014 (stay) and W.P.(C) 3665/2016.

Observations and recommendations of the Committee: -

16.0 After detailed deliberations, the committee recommended for environmental clearance for enhancement in DRI, SMS, Billets and rolling Mill production under para 7(ii) of the EIA Notification, 2006 and amendment in environmental clearance for change in steel making route, change in configuration of power plant and LRF subject to following additional conditions:

(i) The unit shall install tertiary treatment so as to utilize the treated effluent to achieve zero liquid discharge.

(ii) All particulate emissions from stacks shall be restricted to 30 mg/Nm^3.

17.0 The Ministry of Environment, Forest and Climate Change has considered the application based on the recommendations of the Expert Appraisal Committee (Industry-1) and hereby decided to accord environmental clearance for enhancement in DRI, SMS, Billets and rolling Mill production under para 7(ii) of the EIA Notification, 2006 and amendment in environmental clearance for change in steel making route, change in configuration of power plant and LRF as mentioned above subject to following additional conditions:

(i) The unit shall install tertiary treatment so as to utilize the treated effluent to achieve zero liquid discharge.

(ii) All particulate emissions from stacks shall be restricted to 30 mg/Nm^3.

(iii) All other terms and conditions prescribed in environmental clearance vide File No. J-11011/305/2012-IA-II (I) dated 8/10/2018 shall remain unchanged.

18.0 The PP shall obtain fresh environmental clearance in case of change in scope of the project if any.

This issues with the approval of Competent Authority.

(Sharath Kumar Pallerla)
Scientist 'F' / Director

Copy to:-

1. **The Secretary**, Department of Environment, Government of Jharkhand, Secretariat, Ranchi.

2. **The Additional Principal Chief Conservator of Forests (C)**, Ministry of Environment and Forest, Regional Office (ECZ), Bungalow No. A-2, Shyamali Colony, Ranchi-834002.
3. **The Chairman**, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
4. **The Chairman,** Jharkhand State Pollution Control Board, T.A. Division Building (Ground Floor), HEC Campus, P.O. Dhurwa, Ranchi - 834004, Jharkhand.
5. **The Member Secretary**, Central Ground Water Authority, A2, W3 Curzon Road Barracks, K.G. Marg, New Delhi-110001.
6. **The District Collector**, Saraikela Kharsawan District, Jharkhand.
7. **Guard File / Record File / Monitoring File.**
8. **MoEF&CC Website.**

(Sharath Kumar Pallerla)
Scientist 'F' / Director

F. No. J-11011/305/2012-IA.II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj,
New Delhi – 110003

E-mail: dirind-moefcc@gov.in
Tel: 011-24695368

Dated: 17th June, 2019

To

Shri. Vikesh Singh,
Director,
M/s. Rungta Mines Limited,
Chaliyama Steel Plant,
Rungta Chambers,
Chaibasa – 833201.

Email: csp@rungtamines.com; Tel: 033-22816580

Subject: Change in configuration of pelletization plant (2x1.32 MTPA to 1x2.64 MTPA) in the Integrated Steel Plant by M/s. Rungta Mines Limited located at Village Chaliyama, Bankasai & Kuju, District Saraikela Kharsawan of Jharkhand - Environment Clearance under para 7(ii) of the EIA Notification, 2006 - regarding.

Sir,

1. This refers to the application of M/s. Rungta Mines Limited made vide proposal no. IA/JH/IND/100546/2019 dated 27thMarch, 2019 along with Form – 2 seeking environmental clearance under para 7(ii) of 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 "A" EIA Notification, 2006 and the project is appraised at the Central level.

2. The proposal cited above was considered during the 6th meeting of Reconstituted Expert Appraisal Committee [REAC] (Industry-I) held on 29-30th April, 2019. The EAC proceedings of the proposal cited above is given as below.

Details submitted by the project proponent:

3. M/s Rungta Mines Limited is operating an Integrated Steel Plant at villages Chaliyama, Bankasai & Kuju in District Saraikela Kharsawan, Jharkhand. Environmental Clearance for above mentioned plant was granted by MOEF&CC vide letter no. J-11011/305/2012-IA.II (I) dated 07.08.2018 and its enhancement in DRI, SMS, Caster and Rolling mill & change in technology & configuration of SMS and power plant vide amendment letter no. J-11011/305/2012-IA.II.(I) dated 28.01.2019. The consolidated summary of the sanctioned facilities is given in Table 1.

TABLE 1: UNITS SANCTIONED IN EC LETTER DATED 07.08.2018 & ITS AMENDMENT DATED 28.01.2019

Sl. No.	Plant/ facility	Units	Total Capacity (as per EC dated 07.08.2018 & its amendment dt.28.01.2019)
1	DRI plant (8x100 TPD+2x350 TPD)	MTPA	0.658
2	Mini blast furnace (2x262cum)	MTPA	0.458
3	Steel melting shop (I) IF 4X15 T+2x20 T LRF (II) IF 4X15 T+1x35 T LRF (III) IF 4X15 T+1x35 T LRF	MTPA	0.7854
4	Billets/ Slab/ Bloom caster I, II & III	MTPA	0.7695
5	Continuous Casting Machine		3X4 strand
6	Rolling Mill (TMT/ Flat/ Round/ Wire Rod/ Structural Mill/ others)		
a	Mill-1	MTPA	0.261
b	Mill-2	MTPA	0.261
c	Mill-3	MTPA	0.217
7	Captive power plant	MW	158
a	WHR based CPP	MW	53
b	AFBC/CFBC based CPP	MW	105
8	Pelletisation Plant	MTPA	2.64
9	Coal Washery	MTPA	1.26
10	Oxygen Plant (1x30 T)	m^3/annum	7,350,000
11	Lime Plant (1X90 T)	m^3/annum	31,500
12	Vacuum Degassing	Tonnes	30
13	Ferro Alloy Plant (9MVA + 18 MVA)		
a	Ferro Manganese OR	MTPA	0.054
b	Silico Manganese OR	MTPA	0.0432
c	Ferro Chrome OR	MTPA	0.0432
d	Ferro Silicon	MTPA	0.0192
14	Briquette Plant		
	For Ferro chrome OR	MTPA	0.088
	For Ferro manganese	MTPA	0.112
15	Sinter Plant (2X24 sq.m)	MTPA	0.532
16	Coke Oven plant (4 batteries X 70,000 TPA)	MTPA	0.28
17	Producer Gas Plant	NM^3/hr	51,000

4. In the ISP, 8X100 TPD and 2X350 TPD DRI kilns, 8X15 T IF with CCM, one 0.217 MTPA rolling mill, 33 MW WHRB and 25 MW AFBC are already under operation. Construction of other manufacturing facilities is ongoing. The construction of pelletisation plant has not yet been started.

5. Now, company wishes to change the pelletisation plant module configuration from 2 nos. X1.32 MTPA to1 no. X 2.64 MTPA without any change in overall sanctioned capacity permitted as per EC dated 07.08.2018 & its amendment dated 28.01.2019

6. The project proponent submitted an online application in the prescribed format i.e. Form-2 along with other documents to the Ministry on 27.03.2019 vide Online Application No. IA/JH/IND/100546/2019.

7. Due to change Pelletisation plant module configuration from 2 nos. X1.32 MTPA to1 no. X 2.64 MTPA, following are the advantages:
    - Reduction in land requirement for pellet plant from 55 acres to 30 acres.
    - Reduction in specific fuel (FO) consumption to18 ltr/ton from 20 ltr/ton. Therefore, there will be less emission due to better thermal efficiency and less heat loss at furnace as a consequence of larger size.
    - Reduction in specific power consumption to 50Kwh/ton instead of 55Kwh/ton due less number of equipment and more efficient use of equipment. Approximately 2 MW of electricity consumption is expected to reduce.
    - Reduction in number of chimneys from four to two.
    - Half the number of transfer points for iron ore and pellet will be required.
    - The structural steel consumption and civil work will reduce.

8. No additional water requirement will be there due to change in configuration. Reduction in total pollutant emissions from stack into the air are anticipated since total material handled and its air requirement remains same but specific fuel consumption will reduce. Number of stacks will reduce from four to two. Bag filters & ESPs shall be installed to comply to the emission norms. Fugitive emissions might reduce due to lesser transfer points. The total solid waste generation in form of dust (Iron Ore, Coke, Coal Fines, Limestone, Dolomite, Bentonite), will remain unchanged and will be 100% reused in sinter making within the ISP. No additional environmental management measures or funds for it shall be required.

9. The Eastern Central Zone Office of MoEF&CC has visited the plant and issued a compliance status report vide letter no. 103-498/ROR-2016 dated 22.05.2018. As per the letter dated 22/05/2018, the stipulated Environmental Clearance conditions with respect to green belt development, CSR expenditure, effluent quality monitoring data, slag separation plant and fly ash utilization have been reported as partially complied. In this regard, the company had submitted the action plan to MOEF&CC, Regional office, Ranchi vide their letter no. RML/CSP/ MOEF(RO)/18-19/1057 dated 12.06.2018 After detailed deliberations, the Committee satisfied with the corrective actions taken by the project proponent.

10. Name of the Consultant: M/s. Min Mec Consultancy Pvt. Ltd., New Delhi with permission from High Court of Delhi vide in LPA 110/2014 and CM No.2175/2014 (stay) and W.P.(C) 3665/2016.

Observations of the Committee: -

11. The Committee noted the proposed change in configuration of the pellet plant reducing the no of units from 2x1.32 MTPA to 1x2.64 MTPA capacity. The new configuration

will reduce the land requirement, specific fuel and power consumption, and also reduction in number of transfer points for iron ore and pellets.

Recommendations of the Committee: -

12. After detailed deliberations, the Committee recommended the proposal for grant of environmental clearance for change in configuration of the pellet plant from 2x1.32 MTPA to 1x2.64 MTPA subject to following environmental safeguards.

    i. Greenbelt in an additional area of 25 acres of land shall be developed, and the existing green belt already in an area of 224.91 acres shall be improved by planting of local broad leaved tree species in the gaps.
    ii. Project proponent shall clear the old dump of fly ash in twelve months' time. Freshly generated fly ash shall be utilized strictly as per the provisions of the "Fly Ash Notification".
    iii. The specific power consumption in the pellet plant shall not exceed 50 kw/tonne, and fuel oil consumption shall not exceed 18 lit/tonne.
    iv. Project proponent shall not abstract and use any groundwater.
    v. Action plan for rain water harvesting shall be submitted by the project proponent to the Regional Office along with the half yearly compliance report.

13. The Ministry of Environment, Forest and Climate Change has considered the application based on the recommendations of the Expert Appraisal Committee (Industry-I) and hereby decided to accord environmental clearance for change in configuration of the pellet plant from 2x1.32 MTPA to 1x2.64 MTPA in the existing steel plant Village Chaliyama, Bankasai & Kuju, District Saraikela Kharsawan of Jharkhand under para 7(ii) of the EIA Notification, 2006 subject to following additional conditions:

    i. Greenbelt in an additional area of 25 acres of land shall be developed, and the existing green belt already in an area of 224.91 acres shall be improved by planting of local broad leaved tree species in the gaps.
    ii. Project proponent shall clear the old dump of fly ash in twelve months' time. Freshly generated fly ash shall be utilized strictly as per the provisions of the "Fly Ash Notification".
    iii. The specific power consumption in the pellet plant shall not exceed 50 kw/tonne, and fuel oil consumption shall not exceed 18 lit/tonne.
    iv. Project proponent shall not abstract and use any groundwater.
    v. Action plan for rain water harvesting shall be submitted by the project proponent to the Regional Office along with the half yearly compliance report.

14. The PP shall obtain fresh environmental clearance in case of change in scope of the project if any.

15. This issues with the approval of Competent Authority.

Yours faithfully,

(A.K.Agrawal)
Director

Copy to:-

1. The Secretary, Department of Environment, Government of Jharkhand, Secretariat, Ranchi.
2. The Additional Director General (C), Ministry of Environment and Forest, Regional Office (ECZ), Bungalow No. A-2, Shyamali Colony, Ranchi-834002.
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
4. The Chairman, Jharkhand State Pollution Control Board, T.A. Division Building (Ground Floor), HEC Campus, P.O. Dhurwa, Ranchi - 834004, Jharkhand.
5. The Member Secretary, Central Ground Water Authority, West Block –II, Wing -3, Sector I, R.K.Puram, New Delhi – 110086.
6. The District Collector, Saraikela Kharsawan District, Jharkhand.
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(A.K.Agrawal)
Director