

Minutes of the 43rd meeting of the Expert Appraisal Committee held on 21st February, 2019 for appraisal of coal mining projects at Indira Paryavaran Bhawan, Ministry of Environment, Forest and Climate Change, New Delhi-3

The 43rd meeting of the Expert Appraisal Committee (EAC) for Coal mining projects was held during 21st February 2019 in the Ministry of Environment, Forest & Climate Change at Indus Meeting Hall, Jal Wing, Ground Floor, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi to consider the proposals relating to coal mining sector. The following members were present:

1.	Dr. N. P. Shukla		Acting Chairman
2.	Shri Surmya D Vora		Member
3.	Dr. G.P. Kundargi	-	Member
4.	Shri N.S.Mondal		Member (Representative of CEA)
5.	Dr. R. K. Giri	-	Member (Representative of IMD)
6.	Dr. Jai Krishna Pandey	-	Member
7.	Shri S. K. Srivastava	-	Member Secretary

Confirmation of minutes

There being no comments from any of the members of the Committee, minutes of the 42nd meeting of the EAC held on 24th January, 2019 were confirmed in the presence of the members who had been present in the 42nd meeting.

Details of the proposals considered during the meeting, deliberations made and the recommendations of the Committee are explained in the respective agenda items as under:-

Agenda No.43.1

Samleswari Opencast Coal Mining Expansion Project (Phase-IV) of 15 MTPA of M/s Mahanadi Coalfields Limited located in, Village Lajkura Tehsil Brajarajnar, District Jharsuguda (Odisha) - For Environmental Clearance

[IA/OR/CMIN/24722/2008; F. No- J-11015/183/2008-IA.II(M).]

43.1.1 The proposal is for grant of environmental clearance for Samleswari OC Expansion-(Phase IV) Coal Mining Project 15 MTPA with increase in ML area from 928.264 ha to 1334.912 ha of M/s Mahanadi Coalfields Ltd located in District Jharsuguda (Odisha).

43.1.2 The details of the project, as per the documents submitted by the project proponent, and also as informed during the meeting, are reported to be as under: -

- i) The latitude and longitude of the project are 21 °46'48" to 21 °49'22" N and 83°52'23" to 83°56'00" E respectively.
- ii) Joint Venture: No
- iii) Coal Linkage: Thermal Power Plants & Basket Linkage
- iv) Employment generated/ to be generated: 1511 (Existing). There is no additional manpower requirement though indirect employments will be generated.
- v) Benefits of the project: (a) Improvement in physical and social infrastructure like roads, school building, provision of drinking water, community hall, plantation etc. (b) Increase in employment potential (c) Contribution to the Exchequer (both State and Central Govt.) (d) Improvement of Electrical Power Generation and availability of electricity in rural areas (e) Overall economic growth of the country by meeting the energy needs of the country.
- vi) The total project area is 1384.767 ha. The pre-mining land use are following:

Pre-Mining:

Sl. No.	Type of Land	Existing	Additional	Total
1	Agricultural/Tenancy	86.448	--	86.448
2	Waste land	483.578	161.274	644.852
3	Forest Land	334.918	245.374	580.292
4	Grazing	0.000	---	0.000
5	Surface water bodies	23.320	---	23.320
Total:		928.264	406.648	1334.912

Pre-Mining purpose wise:

Sl. No	Item	For existing 15.0 Mty			Addl. land for Expn. (15Mty)(Ph-IV)			Total		
		Forest	Non-forest	Total	Forest	Non-forest	Total	Forest	Non-forest	Total
Within mining lease area										
1.	Quarry excavation	310.792	236.980	547.772	150.784	158.203	308.987	461.576	395.183	856.759
2.	Safety zone for blasting	--	301.627	301.627	3.806	3.071	6.877	3.806	304.698	308.504
3.	External OB dump	--	24.86	24.86	--	--	--	0	24.86	24.86
4.	Infrastructure	24.126	29.879	54.005	--	--	--	24.126	29.879	54.005
5.	Forest land outside Quarry area notified under CBA(A&D) Act	--	--	--	90.784	--	90.784	90.784	--	90.784
	Sub-total :	334.918	593.346	928.264	245.374	161.274	406.648	580.292	754.620	1334.912
Outside mining lease area										
6.	Residential Colony	--	49.855	49.855	--	--	--	--	49.855	49.855
7.	Rehabilitation Colony*	--	--	--	--	--	--	--	--	--
	Total land requirement	334.918	643.201	978.119	245.374	161.274	406.648	580.292	804.475	1384.767

* Area for rehabilitation site is considered in adjacent Lajkura OCP Land details.

Post- Mining:

Sl. No	Category	Land use (in Ha)					Total
		Plantation	Water body	Dip side slope and haul road	Undisturbed	Built-up area	
1	Excavation (backfill) [§]	571.093	73.787	211.879	--	--	856.759
2	Danger zone for	206.917	--	--	101.587	--	308.504

	blasting						
3	External OB dumps ^{\$\$}	24.860	--	--	--	--	24.860
4	Infrastructure	10.801	--	--	--	43.204	54.005
5	Residential colony	5.000	--	--	--	44.855	49.855
6	Forest land outside quarry area (modified under CBA (A&D) Act.	90.784	--	--	--	--	90.784
	Total	909.455	73.787	211.879	101.587	88.059	1384.767

\$ - 95.20 ha has already been technically and biologically reclaimed and afforested.

\$\$ - External OB dump area has already been reclaimed and afforested.

vii) Total geological reserve is 179.75 Mt. The mineable reserve/extractable reserve is 143.49 Mt (as on 01 -04-2018).

viii) The coal grade is G-14. The stripping ratio is 1.81 cum/tonne. The average gradient is 3°- 4°. There is one major seam with thickness ranging from 12.6 - 23.9 m and few local seams.

ix) Source water of water is from IWSS and Mine water. The total estimated water requirement is 5431 KLD. The level of ground water ranges from 0.95 m to 9.80 m below ground level.

x) The method of mining would be opencast mining using shovel-dumper/ripper-dozer in OB/ parting; surface miner, pay loader & tipper in coal.

xi) There is no external OB dump proposed in the proposed expansion mine. However, there are 6 nos. of existing external dumps with Quantity of 4.060 Mm in an area of 24.86 ha with height of 21 meter above the surface level. There will be two internal dumps with quantity of 445.97 Mm³ in an area of 782.972 ha (Post-mining).

xii) The final mine void (post-mining) would be in 73.787 ha with Maximum depth up to 183m. and the total quarry area is 856.759 ha. Backfilled quarry area of 571 .093 ha shall be reclaimed with plantation. A void of 73.787 ha with maximum depth up to 183 m is proposed to be converted into a water body.

xiii) Ambient Air quality Baseline data monitoring are been generated from Feb, 2018 to April, 2018 (Pre-monsoon season). For PM10 - Minimum is 55 µg/m³ and maximum is 110 µg/m³ in Residential zone and Minimum is 108 µg/m³ and Maximum value is 158.0 µg/m³ in core zone. For PM2.5 - Minimum is 33 µg/m³ and maximum is 63 µg/m³ in Residential zone and Minimum is 64 µg/m³ and Maximum value is 89.0 µg/m³ in core zone.

xiv) The life of mine is 10 years (including 2018-19)

xv) Existing & Proposed: Coal production is being done by surface miner. In-pit by tipper/ dumper. Surface to siding No 1, 2 & 3 by dumpers/tippers. Loading at siding by pay loader.

xvi) There is R & R involved of Jamakani village. There are additional 80 PAFs for this expansion project. Fund earmarked for compensation is about Rs. 200 Cr.

xvii) Capital Cost is Rs. 636.24 crore. CSR Cost: Fund for CSR will be allocated based on 2%of the average net profit of the company for the three immediately preceding financial years or Rs. 2.00 per tonne of coal production of the previous year whichever is higher. R&R Cost: Estimated around Rs. 630.66 lakhs (additional). Environmental Management Cost: Rs. 4984.09 Lakhs

xviii) Date of approval of mine plans, mine closure plan, status & date : Approved by Ministry of Coal vide Letter No. CPMA-34011/36/2017-CPMA dated 20-11-2017.

xix) Date of mine closure approval: Approved by Ministry of Coal vide Letter No. CPMA-34011/36/2017-CPMA dated 20-11-2017

xx) Date of Board's Approval: Project Report was approved by MCL Board on 08-09-2017.

xxi) The reserve forests falling in the buffer zone are Rampur RF, Khait RF Bikramkhol RF, Rajpur RF Malda RF, Arhaparha RF, Kusraloi RF, Remanda RF, Thugopahar RF, Ktangbari RF, Makarchatta RF & Chhengapahar RF. Ecologically sensitive areas such as national park, sanctuary, – biosphere, etc. are not present within 10 km radius from the project

xxii) Water Bodies in 10 KM radius of the project

Sl. No	Name of the Water Bodies	Distance
1	Pandren Nalla	Within Mine Lease
2	Lilari Nalla	60 m
3	Bagachhopa jhor	100 m
4	IB river	700 m
5	Mandia Jhor	2.8 km
6	Bhedan River	3.0 km
7	Hinjakharu Jhor	4.8 km
8	Hirakud Reservoir (Backwater)	7.5km

xxiii) Ground water clearance from CGWA under process.

xxiv) Mining plan was approved in 194th MCL Board meeting held on 8th September, 2017 and by MoC vide letter dated 20th November, 2017. Mine closure plan is an integral part of Mining Plan.

xxv) There are no national Parks, wildlife sanctuary, biosphere reserves found in the 10 km buffer zone. There are 12 nos. of reserve forest in 15 km of core zone.

xxvi) Total forest land area involved is 580.292 ha. FC available for 350.092 ha and forest diversion proposal for remaining 230.20 ha has been submitted vide proposal No: FP/OR/MIN/26817/2017 dated 07-10-2017. Consideration in FAC awaited for grant of Stage-I FC.

xxvii) Afforestation plan shall be implemented in an area of 571 .093 ha till the end of mining with green belt over an area of 297.701 ha and density of tree plantation as 2500 trees/ ha.

xxviii) Court cases pending: Case under Section 15 & 16 of EP Act 1986 vide case no. No. 2(c) cc No. 172/2013 dt: 11/02/13 is pending in SDJM, Jharsuguda court.

xxix) The public hearing was conducted on 14th December, 2018. Main issues raised during the public hearing included Rehabilitation & resettlement, employment, control of air pollution, water pollution, supply of drinking water, employment, etc.

xxx) The project was inspected by the officials of the Eastern Regional Office, MoEF&CC, Bhubaneswar on 18-09-18& the certified compliance report was issued vide letter no. 101-962/E.P.E/473 dated 14-12-2018. The ATR on the ERO's observation was submitted to ERO vide letter no. MCL/IBV/P.O.(SOCP)/Env/18-19/178 dated 20th December, 2018. The same is as under:-

S. No	ISSUES RAISED DURING INSPECTION	COMPLIANCE															
1.	It has been observed that the ETP was filled with the sludge. It is required to clean and maintain the ETP regularly for efficient treatment of wastewater.	<p>The ETP has been cleaned and the schedule of cleaning is two times in a year for effective treatment of wastewater. Zero discharge, the treated water is recycled. Latest monitoring data – outlet ETP</p> <table border="1"> <thead> <tr> <th>date</th> <th>pH</th> <th>O&G mg/l</th> <th>TSS mg/l</th> <th>COD mg/l</th> </tr> </thead> <tbody> <tr> <td>16-1-19</td> <td>6.46</td> <td><4.0</td> <td>42</td> <td>16</td> </tr> <tr> <td>31-1-19</td> <td>7.8</td> <td><4.0</td> <td>55</td> <td>32</td> </tr> </tbody> </table>	date	pH	O&G mg/l	TSS mg/l	COD mg/l	16-1-19	6.46	<4.0	42	16	31-1-19	7.8	<4.0	55	32
date	pH	O&G mg/l	TSS mg/l	COD mg/l													
16-1-19	6.46	<4.0	42	16													
31-1-19	7.8	<4.0	55	32													
2.	It has been observed that PAs are in process of developing green belt in the project. However, it is required to	Safety zone plantation of 1,04,739 nos. done around Samaleswari OCP by the Forest Department spread over 68.69 ha. Further,															

	develop the thick closed canopy green belt all around the mining lease boundary area as safety zone plantation.	green belt will be developed in 15.257 Ha.
3	It is required to develop 3-tier green belt comprising of a mix of native species all along the major approach roads.	Avenue plantation has been done 19.80 ha along the major approach road.
4	It is required to conduct the heavy metal analysis such as Hg, As, Ni, Cd, Cr, etc in ambient air quality monitoring regularly and reports to be submitted along with six monthly compliance reports.	Monitoring of heavy metal analysis in ambient air quality is done on six monthly basis & the monitoring results are submitted along with the half-yearly compliance report. In the last monitoring report submitted for the month of Sept 2018 all the parameters were found within permissible limits.
5	It is required to provide the embankment of appropriate size all along the side of the Pandrenallah.	Project has made temporary embankment of size 6 m width X 3.0 m height all along the side of the Pandrenallah . A permanent embankment will be made after diversion of the nalla in proposed project by the year 2019-20.
6	It is required to construct the proper retaining wall at the toe of the dumps and OB benches with proper dimensions within the mine to check run-off and siltation shall be based on the rainfall data.	All external dumps are very old and are fully stabilized having drains at the toe. Trenches of adequate dimension have been made around all dumps. Due to levelling of haul road from time to time, it is partially filled up but it is cleaned regularly.
7	It is required to provide the catch drains and garland drains all over the OB and mineral dumps for collection of surface runoff and the siltation ponds requires regular distillation.	Catch drains and garland drains all over the OB and mineral dumps have been provided for collection of surface runoff. These are cleaned at regular interval.
8	It has been observed that the ultimate slope of the dumps is not maintained 28 degrees at most of the slope areas.	In all the external OB dumps ,i.e. 6 nos have been fully planted and have slope angle is less than 28 degrees. For Internal OB dumps in the backfilled area, the desired heights have not been achieved so ring dumping is being done to achieve the requisite slope.
9	It has been informed that the PAs are being spending Rs. 2.00/- per ton of the coal production or 2% of the average net profit of the company for the three immediately preceding financial years. It is required to spend the CSR cost of Rs. 5 .00/ - per ton of coal produced and should be adjusted as per the annual inflation. It requires immediate action.	MCL has revised its CSR policy in 2014 incorporating the features of the Companies Act, 2013. CSR activities are since being undertaken as per this policy. As per the CSR policy, the CSR fund should be allocated based on 2% of the average net profit of the Company for the three immediate preceding financial years or Rs.2.00 per tonne of coal production of previous year whichever is higher. In respect of Areas of MCL, 80% of the budgeted amount should be spent within the radius of 25 KM of the Projects/ Mines/ Area

		HQ/ Company HQ and 20% of the budget would be spent within the State of Odisha in which MCL is operating. MCL CSR budget vs Spent												
		<table border="1"> <thead> <tr> <th>Year</th> <th>2015-16</th> <th>2016-17</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>Budget (as per 2% law)</td> <td>113 cr</td> <td>113 cr</td> <td>123 cr</td> </tr> <tr> <td>Actual CSR spent</td> <td>184 cr</td> <td>166 cr</td> <td>267 cr</td> </tr> </tbody> </table>	Year	2015-16	2016-17	2017-18	Budget (as per 2% law)	113 cr	113 cr	123 cr	Actual CSR spent	184 cr	166 cr	267 cr
Year	2015-16	2016-17	2017-18											
Budget (as per 2% law)	113 cr	113 cr	123 cr											
Actual CSR spent	184 cr	166 cr	267 cr											
10	It has been observed that fruit bearing plants were planted in the mine lease area. It is required to follow the CPCB guidelines regarding the selection of plant species for plantation in mine lease area.	About 30% of the plantation within mine lease area is fruit bearing.												
11	It has been observed that the PAs are in process of resettling the R&R for PAFs. It has been informed that out of 184 PAFs, 73 PAFs were already shifted. It is required to resettle the R&R for 184 PAFs within an agreed time-frame.	712 Nos of employment provided since inception. Out of 184, R&R completed for 91, balance 93 shall be completed in 2019-20.												
12	It is required to upload the latest compliance report for the period October, 2017 to March, 2018 on company website.	Latest compliance report for the period April 2018 to Sept, 2018 has been uploaded on company's website www.mahanadicoal.in												
13	PAs are irregular in submission of soft copy of the same by e-mail. It is required to submit the softcopy of six-monthly compliance reports along with all monitored data regularly by e-mail to the Regional Office,	Hard copies Six monthly compliance report are being submitted regularly. Soft form of the report is being sent by E-mail through roez.bsr-mef@nic.in . The same will be continued.												

xxxi) The Mining Plan of Samaleswari OC Expn. Ph-IV (15.0 MTPA) has been approved by MoC vide letter dated 20-11-2017.

xxxii) The additional forest land involved for the project is 230.20 ha, and the Stage-1 Forest Clearance is in process vide proposal no. FP/OR/MIN/26817/2017 dated 7th October, 2017.

xxxiii) The present proposal is for expansion in area with the production capacity remaining same at 15 MTPA.

xxxiv) The present working of Samaleswari OCP (15 MTPA) has almost reached to its boundary limit. The life of the mine is less than two months in the existing boundary, and extension to new lease hold area will be required very shortly to maintain the coal production and supply to power houses.

43.1.3 During deliberations on the proposal, the Committee noted the following: -

The proposal is for environmental clearance to Samaleswari Opencast Coal Mining expansion project of 15 MTPA, involving increase in mine lease area from 928.264 ha to 1334.912 ha (Total area 1384.767 ha) of M/s Mahanadi Coalfields Ltd located in District Jharsuguda (Odisha).

Earlier, the project for expansion from 11 MTPA to 15 MTPA in ML area of 928.264 ha was granted EC by the Ministry vide letter dated 6th February, 2015. The instant project involves increase in mine lease area from 928.264 ha to 1334.912 ha without change in capacity of 15 MTPA.

With the proposed increase in mine lease area, total forest land would be increased from 334.918 ha to 580.292 ha. Out of it, forest land of 350.092 ha has already been diverted for non-forestry purposes. Stage-1 Forest Clearance for the remaining forest land of 230.20 ha is under process.

ToR for the project for increase in mine lease area from 928.264 ha to 1334.912 ha was granted on 14th August 2018, and the public hearing was conducted by the State Pollution Control Board on 14th December, 2018. Main issues raised during the public hearing included Rehabilitation & resettlement, employment, control of air pollution, water pollution, supply of drinking water, employment, etc.

Mining Plan for the project was approved by Ministry of Coal on 20th November, 2017.

Baseline Data was generated for the period of February, 2017 to April, 2018. Baseline air quality values at ambient air quality monitoring stations are in the range of 33-63 ug/m³ for PM_{2.5}, 55-110 ug/m³ for PM₁₀, SO₂ from 17.50-37.50 ug/m³ and NO_x from 20.20-37.80 ug/m³.

The Ministry's Regional Office at Bhubaneswar has carried out site visit on 18th October, 2018 and submitted monitoring report on compliance status of EC conditions vide letter dated 14th December, 2018. The project proponent has submitted action taken report on 20th December, 2018 for each of the observations of the Regional Office, as explained in the preceding para), which were found to be in order.

In compliance of the ToR, study has been conducted has been carried out by CMPDIL to know the effect on ecosystem services available in the mining area and assessment of carrying capacity of the ecosystem. The outcome of the study suggests that the study area has sufficient assimilation potential for different environmental components e.g. air, water, ecology etc.

43.1.4 *The EAC, after detailed deliberations, recommended for grant of environmental clearance to Samaleswari Opencast Coal Mining expansion project (Phase-IV) of 15 MTPA, involving increase in mine lease area from 928.264 ha to 1334.912 ha (Total area 1384.767 ha) of M/s Mahanadi Coalfields Ltd located in District Jharsuguda (Odisha), subject to compliance of the terms & conditions and environmental safeguards mentioned below:*

- *The project proponent shall collect and analyze one season data for environmental parameters and submit for consideration of the EAC before 31st December, 2019.*
- *The project proponent shall obtain Consent to establish from the State Pollution Control Boards prior to commencement of production in increased area.*
- *Transportation of coal from face to Coal heap shall be carried out by truck. Further, the coal transportation from Coal heap to Coal Handling Plant shall be carried out through covered trucks.*
- *To control the production of dust at source, the crusher and in-pit belt conveyors shall be provided with mist type sprinklers.*
- *Mitigating measures shall be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient water sprinklers. Adequate corrective measures shall be undertaken to control dust emissions, which would include mechanized sweeping, water sprinkling/mist spraying on haul roads and loading sites, long range*

misting/fogging arrangement, wind barrier wall and vertical greenery system, green belt, dust suppression arrangement at railway siding, etc.

- *The company shall obtain approval of CGWA for use of groundwater for mining operations.*
- *Continuous monitoring of occupational safety and other health hazards, and the corrective actions need to be ensured.*
- *Persons of nearby villages shall be given training on livelihood and skill development to make them employable.*
- *To ensure health and welfare of nearby villages, regular medical camps shall be organized at least once in six months.*
- *Thick green belt of adequate width at the final boundary in the down wind direction of the project site shall be developed to mitigate/check the dust pollution.*
- *Efforts shall be made for utilizing alternate sources of surface water, abandoned mines or else whatsoever and thus minimizing the dependability on a single source.*
- *A third party assessment of EC compliance shall be undertaken once in three years through agency like ICFRI /NEERI/IIT or any other expert agency identified by the Ministry.*
- *Hazardous ETP sludge should be only disposed off as per Hazardous and Other Waste (Management and Transboundary Movement) Rules (2016)*

Agenda No.43.2

Marki Mangli- III Opencast Coal Mining Project capacity of 0.21 MTPA in an area of 282 ha (ML 275 ha) of M/s B S Ispat Limited located in Village Salori Yensa, Post Chinor, Taluka Warora, District Chandrapur (Maharashtra) - For Environmental Clearance

[IA/MH/CMIN/31533/2015; F. No- J-11015/425/2007-IA.II (M)]

43.2.1 The proposal is for EC for Marki Mangli Coal Block III Project of 0.21 MTPA capacity in mine lease area of 275.00 ha of M/s B S Ispat Limited located in village Ardhwan, Bhendala, Ruikot, Mukutban Tehsil Jhari Jamni District Yavatmal (Maharashtra).

43.2.2 Details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meeting, are given as under:

- (i) The project area is covered under Survey of India Topo Sheet No56 I/13 and is bounded by the geographical coordinates ranging from 20°29'27"N to 20°32'30" N and longitudes 79°16'00"N to 79°10'08" E
- (ii) Coal linkage of the project is proposed for Captive use for M/s BSIL Integrated Steel Plant Located at Warora, District Chandrapur
- (iii) Joint venture cartel has been formed – No Joint venture
- (iv) Project does not fall in the Critically Polluted Area (CPA), where the MoEF&CC's vide its OM dated 13th January, 2010 has imposed moratorium on grant of environment clearance.
- (v) Employment generation: Direct employment to 288 persons will be provided from the project.
- (vi) The project is reported to be beneficial in terms of Environmental, Social, Financial aspects.
- (vii) Earlier, the environment clearance to the project was obtained under EIA Notification, 2006 vide Ministry's letter NoJ11015/425/2007-IA. II(M) dated 27th January, 2011 for 0.21 MTPA in mine lease area of 256 ha.
- (viii) Total mining lease area as per block allotment is 275 ha. Mining Plan (Including Progressive Mine Closure Plan) has been approved by the Ministry of Coal on 10.04.2018.
- (ix) The land usage pattern of the project is as under

Pre-mining land use details

(Area in Ha)

S. No.	Land Use	Within ML Area	Outside ML Area	Total
1	Agricultural Land	258.65	07.00	265.65
2	Forest Land	NIL	NIL	NIL
3	Wasteland	NIL	NIL	NIL
4	Grazing Land	NIL	NIL	NIL
5	Surface Water Bodies	NIL	NIL	NIL
6	Settlements	10.00	NIL	10.00
7	Others (Govt Land)	06.35	NIL	06.35
	Balance Area	-	-	-
	Total Project Area	275	7	282

Post mining Landuse

S.N.	Land use during Mining	Land Use (ha)				
		Plantation	Water	Public Use	Undisturbed	TOTAL
1	External OB Dump	13.00	-	-	-	13.0
2	Top soil Dump	7.00	-	-	-	7.00
3	Excavation	69.00	59.00	-	-	128.0
4	Roads	-	-	0.200	-	0.20
5	Built up area	25.00	-	11.80	-	36.80
6	Green Belt	-	-	-	-	-
7	Undisturbed Area	90.00	-	-	-	90.00
	TOTAL	204.00	59.00	12.00	-	275.0

(x) Total geological reserve reported in the mine lease area is 6.19 MT with 4.42 MT mineable reserves. Out of total mineable reserve of 4.42 MTMT, 3.65 MTMT are available for extraction. Percent of extraction is 59 %.

(xi) One seams with thickness ranging from 0.64 m to 3.05 mis workable. Grade of coal is D to F stripping ratio 1:6.90 while gradient is 7.5 to 8.0 .

(xii) Method of mining operations envisages by Opencast method

(xiii) Life of mine is 18 years.

(xiv) The project has proposed One external OB dumps in an area of 13 ha with 30 m height and 2.61 Mm³ of OB. OB concurrently backfilled from 4th year onwards. Internal OB in an area of 69 ha with 22.01 Mm³ of OB is envisaged in the project.

(xv) Total quarry area is 128 ha out of which backfilling will be done in 69 ha while final mine void will be created in an area of 59 ha with a depth of 60 m. Backfilled quarry area of 69 ha shall be reclaimed with plantation. Final mine void will be converted into water reservoir.

(xvi) Transportation of coal has been proposed by road in mine pit head, from surface to end use plant by road.

(xvii) Reclamation Plan in an area of 204 ha, comprising of 20 ha of external dump, 69 ha of internal dump and 90 ha of green belt. In addition to this, an area of 25 ha, included in the safety zone/rationalization area, has also been proposed for green belt development.

(xviii) No forest land has been reported to be involved in the project. Approval under the Forest (Conservation) Act, 1980 for diversion of is not required.

(xix) No National Parks, Wildlife Sanctuaries and Eco-Sensitive Zones have been reported with 10 km boundary of the project.

(xx) The ground water level has been reported to be varying between 15.1 m to 4.4 m during pre-monsoon and between 0.5 m to 10.6 m during post-monsoon. Total water requirement for the project is 78 KLD.

(xxi) The ground water clearance in respect of abstraction of mine water to the tune of 2600 m³ /day and tube well water 13 m³ /day has been applied for obtaining the approval of the Central Ground Water Authority for withdrawal of ground water has been submitted on 20th June, 2016.

(xxii) Public hearing for the project of 0.21 MTPA capacity in an area of 282 ha was conducted on 03.11,2018 at Project Site Major issues raised in the public hearing include Land cost, CSR activities, employment, Pollution & Environment, health, safety, education etc, Appropriate action to address the issues raised in the Public Hearing have already been proposed to be taken are as under:

(xxiii) Land cost – on negotiation with the land owner, CSR Activities – such as skill development, training, awareness, infrastructure improvement, plantation etc. for which a capital budget of 90.87 Lakhs and 13.64 Lakhs has been proposed. Employment : Direct employment to 288 persons preferably local. For Pollution and Environmental control various mitigative measures for air, water, noise, groundwater recharge, vibration management, plantation, dust suppression have been proposed in EMP with a financial provision of 846 Lakhs as capital budget and 45 Lakhs as recurring budget have been allocated. In addition CER @ 2% of capital cost of the project has also been kept.

(xxiv) Consent to Operate for the existing capacity shall be obtained from the Maharashtra State PCB.

(xxv) Upasanalla is flowing NW boundary of lease. The nallah will be diverted in consultation with the Water Resource Department of the State Government.

(xxvi) Regular monitoring of ambient air quality shall be carried out on fortnightly basis. The documented report shall be submitted to MPCB and also to MoEF&CC along with half yearly EC compliance report. The maximum PM10 concentration covering all the air quality monitoring stations i.e. A-1 to A-4 were observed in the range of 46.4-51.2 µg/m³ and maximum PM2.5 concentration were observed in the range of 24.8 - 29.1 µg/m³

(xxvii) The Total Coliforms count in surface water sample was found as 460 MPN/100 ml which was indicative of bacteriological contamination possible due to surface runoff entering this water source. The corresponding total coliform count was <3 MPN/100 ml in ground water samples

(xxviii) No court cases, violation cases are pending against the project of the PP.

(xxix) The project does not involve violation of the EIA Notification, 2006 and amendment issued thereunder. The coal production from the mine was started from the year 2011 onwards by previous Allottee upto 2014-15. Coal block has been reallocated to M/S BS ISPAT Ltd on 17.04.2015. BSIL is in the process of obtaining various clearances and has not yet commenced any mining related activity, hence no production has been carried out till date. No excess production of coal from the sanctioned capacity has been realized since the commencement of mining operations. The coal production, realized from the project, from 1993-94 onwards, is as under:

Year	Coal Production by earlier allottee
2011-12	0.01
2012-13	0.21
2013-14	0.21
2014-15	0.14

(xxx) The project involves 144 project affected families. R&R of the PAPs will be done as per LAAR, 2013. 191.08 ha private land is yet to be acquired. Adequate provision has been done

(xxxii) Total cost of the project is Rs.14710 lakhs. Cost of production is Rs.3100/- per tonne., CSR cost is Rs. 6.5 per tonne, Environment Management Cost is Rs. 8.46 crores as capital and 0.45 Crores as recurring cost.

(xxxiii) Consent to operate (CTO) will be obtained from the Maharashtra State Pollution Control Board after obtaining environmental clearance.

(xxxiiii) There are various forest patches in 10 Km buffer zone of the mining lease as detailed below;

Name of the Forest	Distance (Direction)
Ruikot RF	0.8 km (N)
Paunar RF	6.5 km (N)
Shekapur RF	1.6 km (W)
Chilai RF	6.5 km (E)
Ardhwan RF	1.6 Km(W)
Akapur RF	8.5 km (E)
Unnamed RF	0.5 Km (S)
Protected Forest Unnamed	6.0 km (SE)

43.2.3 After deliberations, EAC noted the following:

The proposal is for environmental clearance to Marki Mangli-III Opencast Coal Mining project of capacity of 0.21 MTPA of M/s B S Ispat Limited in mine lease area of 275 ha located in village Ardhwan, Bhendala, Ruikot, Mukutban. Tehsil Jhari Jamni District Yavatmal (Maharashtra).

Earlier, environment clearance was granted by the Ministry on 27th January, 2011 to the project for Marki Mangli-II,III & IV, with the details as under:-

S. No.	Block	Mine lease area (ha)	Total project area (ha)	Forest land (ha)	Production capacity (MTPA)
1.	Marki Mangli II	261.20	273	100.20	0.30
2.	Marki Mangli III	256	256	-	0.21
3.	Marki Mangli IV	163	256	-	0.20
	Total	680.21	785	100.20	0.71

Subsequent to cancellation of coal blocks pursuant to the orders of Hon'ble Supreme Court, allocation of Marki Mangli-III coal block has been vested with M/s BS Ispat Ltd vide allotment order dated 7th April 2015 issued by Nominated Authority in the Ministry of Coal. Accordingly, the present proposal is for environmental clearance to Marki Mangli-III Opencast coal mining project.

No forest land is reported to be involved in the project.

ToR for the project was granted on 1st February, 2016, and the public hearing was conducted by the State Pollution Control Board on 3rd November, 2018. Main issues raised during the public hearing included Rehabilitation & resettlement, employment, control of air pollution, water pollution, supply of drinking water, employment, etc.

Revised Mining Plan, including Progressive Mine Closure Plan, has been approved by the Ministry of Coal on 10th April, 2018.

Baseline Data was generated for the period of March, 2016 to May, 2016. Baseline air quality values at ambient air quality monitoring stations are in the range of 14.7-29.7 ug/m³ for PM_{2.5}, 36.4-54.7 ug/m³ for PM₁₀, SO₂ from 8.1-19.4 ug/m³ and NO_x from 10.00-25.9 ug/m³.

Impact of drilling and blasting in village Ruikot located in core zone (distance is more than 100 m from habitation) needs special attention

Upasha Nalla is flowing NW boundary of lease. The nallah will be diverted in 8th/12th Year of mining in consultation with the Water Resource Department of the State Government. Application has been submitted to Irrigation Department.

43.2.4 *The EAC, after detailed deliberations, recommended for grant of environmental clearance to Marki Mangli III Opencast Coal Mining expansion project of 0.21 MTPA in mine lease area from 275 ha (Total area 282 ha) of M/s B S Ispat Limited located in District Yavatmal (Maharashtra), subject to compliance of the terms & conditions and environmental safeguards mentioned below:*

- *The project proponent shall collect and analyze one season data for environmental parameters and submit for consideration of the EAC before 31st December, 2019.*
- *The project proponent shall obtain Consent to establish from the State Pollution Control Boards prior to commencement of production in increased area.*
- *Transportation of coal from face to Coal heap shall be carried out by truck. Further, the coal transportation from Coal heap to Coal Handling Plant shall be carried out through covered trucks.*
- *To control the production of dust at source, the crusher and in-pit belt conveyors shall be provided with mist type sprinklers.*
- *Mitigating measures shall be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient water sprinklers. Adequate corrective measures shall be undertaken to control dust emissions, which would include mechanized sweeping, water sprinkling/mist spraying on haul roads and loading sites, long range misting/fogging arrangement, wind barrier wall and vertical greenery system, green belt, dust suppression arrangement at railway siding, etc.*
- *The company shall obtain approval of CGWA for use of groundwater for mining operations.*
- *Continuous monitoring of occupational safety and other health hazards, and the corrective actions need to be ensured.*
- *Persons of nearby villages shall be given training on livelihood and skill development to make them employable.*
- *To ensure health and welfare of nearby villages, regular medical camps shall be organized at least once in six months.*
- *Thick green belt of adequate width at the final boundary in the down wind direction of the project site shall be developed to mitigate/check the dust pollution.*
- *Efforts shall be made for utilizing alternate sources of surface water, abandoned mines or else whatsoever and thus minimizing the dependability on a single source.*
- *A third party assessment of EC compliance shall be undertaken once in three years through agency like ICFRI /NEERI/IIT or any other expert agency identified by the Ministry.*

Agenda No.43.3

Proposed 2x2 MTPA Coal Washery in an area of 8.195 ha of M/s CG Coal & Power Limited located at Village Batari, Tehsil Khatgora, District Korba (Chhattisgarh) - For Environmental Clearance

[IA/CG/CMIN/25774/2014; F. No- J-11015/512/2014-IA.II (M)]

43.3.1 The proposal is for Environmental Clearance to the project for 2 x 2 MTPA capacity Coal Washery (wet process) in an area of 8.195 ha vide letter dated 18th August 2015, Coal

Washery (Wet Process), Project of 2 x 2 MTPA capacity in lease area of 8.195 ha of M/s CG Coal & Power Ltd located in village Batari, Tehsil Khatgora, District Korba (Chhattisgarh).

43.3.2 Details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meeting, are given as under:

(i) The project area is covered under Survey of India Topo Sheet No:64 J/11 and is bounded by the geographical coordinates ranging from latitudes 22°21'44.51"N to 22°21'58.63"N and longitudes 82°30'44.38"E and 82°30'56.97"E.

(ii) Coal linkage of the project is proposed from the following various industries.
Raw Coal MoU : SKS Alloys & Power Pvt. Ltd., Temtema, Raigarh, CG (112140 TPA, Vandana Global Ltd., Siltara, Raipur, CG(126000 TPA), Shivalaya Ispat & Power (P) Ltd.(72000 TPA), API Ispat & Powertech Pvt. Ltd.(120000 TPA)

Reject Coal MoU: Sky Alloys & Power Pvt. Ltd., Temtema, Raigarh, CG(49992 TPA), Vandana Global Limited, Siltara, Raipur, CG(60000 TPA)

It is further requested that we have made sincere efforts for execution of MOUs with some of our prospecting consumers; but most the prospecting job providers of raw coal and procurers of reject coal have shown their inability for execution of MOUs until actual establishment of coal washery at Village: Batari, Tahsil: Katghora, District: Korba, in the State of Chhattisgarh for avoiding future investigation and complications etc. It is further submitted that some of our prospecting consumers company's matter is pending adjudication before National Company Law Tribunal for corporate restructuring under the Insolvency and Bankruptcy Code'2016; in which resolution professional was appointed and new board were constituted; during the pendency of matter, the company cannot interred into any fresh agreement and/or executed MOUs.

In the aforesaid facts and circumstances; we humbly request for waiver of MOUs conditions for consideration of our proposal by the EAC; we undertake to abide by all the terms and conditions imposed by the EAC committee and/or MoEFCC for grant of Environment Clearance for our proposed 2 x 2 MTPA Coal washery project

(iii) Joint venture cartel has been formed –Not Applicable

(iv) Project does not fall in the Critically Polluted Area (CPA), where the MoEF&CC's vide its OM dated 13th January, 2010 has imposed moratorium on grant of environment clearance.

(v) Employment generation, 85 persons employment to i.e. Phase I-48 persons and Phase II-37 persons will be provided from the project.

(vi) The project is reported to be beneficial in terms of Employment generation, social benefits & revenue generation for state govt.

(vii) The land usage pattern of the project is as follows:

Pre-mining land use details/- 8.195 ha (CSIDC Lease hold land)

Post Mining/During washery Operation

Sl. No.	Description	Acres
1.	Plant Area	6.50
2	Storages Area	
2(a).	Raw Coal	1.25
2(b).	Washed Coal	0.50
3	Rejects	0.75
4.	Green Belt Area	6.75
5.	Road Area	1.00
6.	Parking Area	0.75
7.	Water Reservoir	1.50
	Settling/Slime Pone	0.75
8.	Admin Building and others	0.50

Sl. No.	Description	Acres
	Total	20.25

(viii) Transportation of coal has been proposed as following

Raw Coal: Raw coal will be sourced from Dipka, Gevra, Kusmunda and other nearby operational coal mines of South Eastern Coalfield Limited (SECL), located in Korba area. Since, the proposed coal washery site is located close to the SECL operational coal mines and also situated on Bilaspur-Pali road, on which; most of the user industries are transporting their raw coal, thus it is feasible to transport raw coal to the plant site by road mode in covered trucks from mines.

Washed Coal: Depends upon the selling terms with the buyers, either through covered trucks to users industries or up to nearest railway siding by covered trucks and then be loaded into the wagons.

Reject Coal: Depends upon the selling terms with the buyers through covered trucks to users industries.

(ix) Area proposed for green belt development.

Green belt (in ha)	6.75 Acres i.e 2.73 Ha. (33%)
Density of tree plantation (in no of plants)	2000 per Ha (Total Plantation 5,460)

(x) The ground water level has been reported to be varying between 5m to 10 m during pre-monsoon and between 3 m to 5 m during post-monsoon. Total water requirement for the project is 1300 m³/day

(xi) Application for obtaining the approval of the Central Ground Water Authority for has been submitted on 29th December, 2017.

(xii) Source of water will be from proposed Fulzar Anicut on Ganjhanallah (Salihanallah), near village Fulzar. Water Allocation Letter (Sanctioned) obtained from Water Resources Department Chhattisgarh for drawl of 1300 m³/day makeup water. (Vide Letter No. 912/F 4-294/S-2/31/OJP/15 Naya Raipur, 06/02/2018

(xiii) Public hearing for the project of 2 x 2 MTPA proposed Coal Washery (Wet Process) capacity in an area of 8.195 ha was conducted on 7th February, 2018 at proposed Project site, Village Batari, Tehsil Khatgora, District Korba (Chhattisgarh).

Major issues raised in the public hearing include employment, transportation and pollution. Appropriate action to address the issues raised in the Public Hearing has already been taken/proposed to be taken are as under:

Objections/ comments/ suggestion	Action Plan by Project Proponent
Employment should be given to locals	90% employment will be given to locals and if required to provide technical education to them, 75%expenditure will be shared by M/s. CG Coal & Power Ltd. Total employment of 85 persons will be given in phase wise manner i.e. Phase I-48 persons and Phase II-37 persons. Time Frame: Immediate started during operation Phase
CSR activities	CSR activities will be carried out in surrounding villages in consultation with Gram panchayat as per CSR policy under Companies Act and MoEF&CC guidelines. Budgetary provision for socio-economic welfare activities:

	<p>35.5 Lakhs (capital cost) and Rs. 26.6 Lakhs (recurring cost)</p> <p>Budgetary provision earmarked under CER: Provision of Rs. 120 Lakhs has been earmarked for implementation of CER activities</p> <p>Time Frame: Immediate started during construction Phase</p>
Dust nuisance	<p>Dust will be controlled through regular water sprinkling within plant area along with approach road. Thick plantations will be developed along the plant boundary to restrict dust emission.</p> <p>This will act as a dust screen. Transportation will be carried out through tarpaulin covered trucks. Sprinklers with automatic sensors will be installed to control fugitive emission at strategic locations.</p>
Transportation of Raw and washed coal will be carried through truck thus, surrounding area will be affected due to air pollution.	<p>Coal will be transported through tarpaulin cover trucks and maximum water sprinkling will be done on the road. Coals will be transported within the carrying capacity of the trucks and limiting the speed of the trucks. The proposed coal washery is only 0.4km from Bilaspur-Pali state highway.</p>
The distance between proposed coal washery and Indus Public School is very less and thus unlikely health impact on children school will be created.	<p>Site specific & sufficient care will be taken to avoid air pollution impacts towards school side.</p> <p>Wind barrier and greenbelt will be developed. Water sprinklers will be installed to suppress dust emission. Further, it is wet type coal washery which will minimize fugitive emissions significantly. Retention wall 25 feet height will be constructed along 335 feet at the common boundary of proposed coal washery and school. Nearby boundary wall high pressure jet sprinklers will be installed to avoid fugitive dust.</p> <p><i>Note – Land area of CG coal was acquired by CSIDC in 2004, for proposed coal washery and allied industries, 100 % amount is paid by CG coal in 2004-05. Adjoining school is intentionally constructed in 2014 by business competitor and management of CG Coal is prepared to take over school along with their building and relocate at suitable place as advised by local authority.</i></p> <p><i>Appropriate mitigation measures will be taken to control</i></p>

(xiv) Regular monitoring of ambient air quality is being carried out on fortnightly basis. The documented report is submitted to MoEF&CC along with half yearly EC compliance report. In general, the results of ambient air quality monitoring data were found within prescribed limits except few aberrations which can be attributed to the specific local conditions during the day of sampling.-Not Applicable

(xv) Two cases are pending adjudication against the project proponent

(xvi) The project involvesproject affected families. R&R of the PAPs will be done as per.....Not Applicable

(xvii) Total cost of the project is Rs. 60.00 crores. Budgetary provision for socio-economic welfare activities: 35.5 Lakhs (capital cost) and Rs. 26.6 Lakhs (recurring cost), Budgetary

provision earmarked under CER: Provision of Rs. 120 Lakhs has been earmarked for implementation of CER

43.3.3 During deliberations, the EAC noted the following:

The proposal is for environmental clearance to the proposed 2x2 MTPA coal washery project of M/s CG Coal & Power Ltd in area of 8.195 ha at village Batari, tehsil Khatgora, District Korba (Chhattisgarh). There is no forest land involved.

Details of different products are proposed as under-

Product	Weight (%)	Ash (%)	Use
Washed/clean coal	68.8	33-34	For thermal power plants and other industries
Rejects	31.2	60-70	Power plants using CFBC boilers

The washery will be based on wet process using heavy media cyclone technology with raw coal linkage from Dipka, Gevra and Kusmunda and other operational coal mines of M/s SECL in the area.

ToR for the project was granted by the Ministry on 18th August, 2015. Public hearing was conducted by the State Pollution Control Board on 7th February, 2018. Main issues raised during public hearing include employment to locals, development of Batari village, control of air and impact on nearby areas such as agricultural field and water pollution, vehicular traffic, health problem to nearby kanya (girls) ashram, policy regarding use and disposal of rejects, treatment and recycling of waste water, road accident due to increase traffic, load on existing water body due to extraction of surface water.

Total fresh water requirement is estimated to be 1300 kl/day which is proposed to be supplied from Fulzar Anicut. Water Resources Department of the State Government has accorded permission for drawl of 1300 cum/day vide their letter dated 5th February, 2018.

Committee also insisted on MoU/Agreement for usage of washed coals, rejects and the distance of the site from coal washery.

43.3.4 *The EAC, after deliberations, desired for inputs and clarifications in respect of the following:-*

- *Carrying capacity of the road for the increased traffic due to transportation of Raw/washed coal from NH to Bilaspur Pali and 400 m stretch of village road.*
- *MoUs/agreements for linkage of washed coal to the potential consumers*
- *Land records and actual possession of land for the proposed washery*
- *Permission for withdrawal of groundwater from CGWB, if so required*
- *Traffic density study to be carried out and air pollution modeling due to movement of trucks*
- *Proper EMP to address the air quality concern and/or impact on nearby areas (to Kanya ashram)*
- *Disposal of washery rejects in conformity with the extant norms/guidelines in this regard.*

The proposal was, deferred for want of needful on the above lines.

Agenda No.43.4

Parsa Opencast Coal Mining Project of 5 MTPA and Pit Head Coal Washery of 5 MTPA of M/s Rajashtan Rajya Vidyut Utpadan Nigam Limited in an area of 1252.447 ha located at Hasdeo Arand Coalfield in Districts Surguja & Surajpur (Chhattisgarh) - For Environmental Clearance

[IA/CG/CMIN/59215/2016; F. No- J-11015/76/2016-IA.II (M)]

43.4.1 The proposal is for environmental clearance to Parsa Opencast Coal Mining Project of 5 MTPA and Pit Head Coal Washery of 5 MTPA of M/s Rajashtan Rajya Vidyut Utpadan Nigam Limited in an area of 1252.447 ha at Hasdeo-Arand Coalfield in Districts Surguja & Surajpur (Chhattisgarh).

43.4.2 Details of court cases involved are as under:-

- (i) Appeal No.73 of 2012 before the National Green Tribunal against the order dated 28th March, 2012 passed by the Forest Department, State of Chhattisgarh.
- (ii) NGT, vide judgment dated 24th March, 2014, set aside the order dated 23rd June, 2011 and the consequential order dated 28th March, 2012 passed by the Government of Chhattisgarh under section 2 of the Forest (Conservation) Act, 1980. Further, the case was remanded to MoEF with directions to seek fresh advice of FAC within reasonable time on all aspects of the proposal. NGT also directed suspension of all works, except the work of conservation of existing flora and fauna, till further orders are passed by MoEF.
- (iii) Aggrieved against the judgment passed by NGT, RVUNL preferred a civil appeal (CA No.4395 of 2014) before the Hon'ble Supreme Court of India.
- (iv) Vide order dated 28th April, 2014, the Hon'ble Court has stayed the direction in the impugned order whereby NGT had directed that all works commenced by the RVUNL pursuant to the order dated 28th March, 2012 passed by the State of Chhattisgarh under Section 2 of the Forest Conservation Act, 1980 shall stand suspended till further orders are passed by the Ministry of Environment and Forests.
- (v) Writ Petition (C) No.1346/2016 titled Forest Right Committee Ghatbarra Vs Union of India & Ors before the Hon'ble High Court of Chhattisgarh, regarding Forest Rights of the Community over the forest land.

43.4.3 The proposal was earlier considered by the EAC in its 26th meeting held on 15-16 February, 2018, wherein the Committee after deliberations and taking cognizance of the concerns raised during public hearing, desired for certain clarifications and details in respect of the following:-

- (i) The response of the project proponent 'MoEF&CC will grant Environment Clearance to the project only after thorough scrutiny of EIA/EMP Report through Expert appraisal Committee' to the queries raised during public hearing regarding authenticity of data and facts mentioned in the EIA/EMP reports, was not acceptable. The Committee asked for an undertaking in this regard to be furnished by the project proponent.
- (ii) Comments from the State Tribal Welfare Department regarding permission for the project from Gram Sabha, impact on livelihood of tribal population, and their concurrence as per the provisions of the Panchayats Extension to Scheduled Areas Act, 1996 (PESA Act) as applicable in the instant case.
- (iii) The State Water Resources/Irrigation Department of the State Government to assess the cumulative impact of diversion of streams, and existing and proposed mining operations on Hasdeo River.

(iv) Opinion of the State Wild Life Board regarding impact of existing and proposed mining operations on elephant movement and other wild life species needs to be sought, in view of part of the area proposed for Lemru Elephant Reserve.

43.4.4 The proposal was again considered by the EAC in its 34th meeting held on 24th July, 2018, wherein committee insisted for compliance of its earlier observations.

During the meeting held on 27th September, 2018, the committee noted the submission of the project proponent in response to its earlier observations. The same are reproduced as under:-

S. No.	Observations of the EAC	Status of compliance by the PP
1.	Comments from the State Tribal Welfare Department regarding permission for the project from Gram Sabha, impact on livelihood of tribal population, and their concurrence as per the provisions of the Panchayats Extension to Scheduled Areas Act, 1996 (PESA Act) as applicable in the instant case.	RVUNL vide its letter dated 6 th April 2018 requested State Tribal Welfare Department to provide its comment and the State Tribal Welfare Department, in turn, vide their letter dated 18 th May 2018 sought comments from the Collector, District Surguja & Surajpur on the observation of the EAC. The District Collector (DC) Surguja & Surguja vide their letters dated 28 th May 2018 and 1 st June 2018 respectively replied to State Tribal Welfare Department. Subsequently, State Tribal Welfare Department has forwarded the same to MoEF&CC vide its letter dated 7 th June 2018.
2.	The State Water Resources/Irrigation Department of the State Government to assess the cumulative impact of diversion of streams, and existing and proposed mining operations on Hasdeo river.	It is informed that Water Resource Department, Government of Chhattisgarh stated in its report that <i>"It can be concluded that there will be no cumulative adverse impact of Nala diversion and existing & proposed coal mining operation on Hasdeo River."</i> NOC of proposed Nala diversion has been issued vide its letter no. 4708/F-7/25/31/S-2/2018 dated 6th August 2018.
3.	Opinion of the State Wild Life Board regarding impact of existing and proposed mining operations on elephant movement and other wild life species needs to be sought, in view of part of the area proposed for Lemru Elephant Reserve.	RVUNL vide its letter dated 16 th May 2018 requested PCCF (Wildlife), State Wildlife Department to provide comments on the above query raised by EAC. The PCCF (Wildlife), State Wildlife Department in its letter dated 18 th May 2018 to MoEF&CC informed following to MoEF&CC- (i) As per records of forest Department, Mining Lease Area of Parsa Opencast Coal Mine Project of 5 MTPA and Pit Head Coal Washery of 5 MTPA of M/s. Rajasthan Rajya Vidyut Utpadan Nigam Limited in Districts Surguja & Surajpur (Chhattisgarh) does not fall in any notified protected area including national parks, wildlife sanctuaries, animal/elephant corridors etc. Proposed Project area also does not fall in 10 Km radius of any such protected area.

	<p>(ii) State Government vide letter No. F-5-6/10-2/2009 dated 20th July 2009 rejected the proposal of Lemru Elephant Reserve. So, Lemru Elephant Reserve does not exist.</p> <p>(iii) It was also decided that wildlife conservation and management has to be carried out by improving habitat of the existing national park and sanctuaries rather than creating new elephant reserve, national park and sanctuary.</p> <p>(iv) As per records of local forest officials as well as study undertaken for Wildlife Conservation Plan for Parsa Opencast Coal Mine Project of 5 MTPA and Pit Head Coal Washery of 5 MTPA, this area is not a regular habitat/corridor of elephants. Although occasional visits of stray elephants have been reported in the area resulting into human-wildlife conflict and property damages.</p> <p>(v) Keeping that in mind, an elaborate Wildlife Management Plan with an estimated cost of Rs. 12.16 Crs, has prepared by Mr. Ashok Masih (Retd Addl PCCF), Member of "Society for Social Services, Madhya Bharat Chapter, Bhilai" to mitigate the impact of project, if any. Effective mitigation measures have been taken particularly with reference to elephant movement and protection. Wildlife Management Plan has also been approved by CWLW, Chhattisgarh vide letter dated 8th June, 2017.</p> <p>(vi) In Wildlife Management Plan provisions to reduce human-animal conflict, solar fencing, public awareness, establishment of Elephant Control Room at divisional level, Elephant Protection Team at range level and Elephant Friend Group (Hathi Mitra Samooh) at concerned village level has been made.</p> <p>It is further mentioned by the PCCF (Wildlife) that that Government of Chhattisgarh, after examining all the aspects of forest & wildlife, recommended forest proposal of 841.538 ha forest land for the Parsa Coal Block for diversion of forest land to MoEF&CC vide its letter dated 02nd May 2018.</p>
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The Committee, after deliberations and in view of recommendations of the Forest Advisory Committee (FAC), desired for inputs in respect of following:-

- Comprehensive study on conservation of biodiversity and wildlife conducted by the ICFRE.
- Opinion of Ministry of Law & Justice/ASG on applicability of the approval accorded by the then Hon'ble MEF&CC vide order dated 23rd June, 2011 for prospecting in the said coal block/other coal blocks in Hasdeo Arand forest area pending final disposal of the matter in the Apex court.
- Success of reclamation works in the adjoining coal blocks (Tara & PEKB).

The Committee also insisted for compliance of its recommendations in respect of opinion of the State Wildlife Board regarding impact of existing and proposed mining operations on elephant movement and other wild life species needs to be sought, in view of part of the area proposed for Lemru Elephant Reserve.

43.4.5 The project proponent has submitted clarification/comments on the observation of EAC with the details as under:-

S. No.	Observations	Comments/Compliance
1	Comprehensive study on conservation of biodiversity and wildlife conducted by the ICFRE	<ul style="list-style-type: none"> • Proposal for the study has been submitted by ICFRE to State Government. • RVUNL, vide its letter dated 10th August, 2018 has deposited an amount of Rs. 1,74,68,250/- i.e. 75% of Rs. 232.91 Lakhs based on the demand of DFO, Surguja for the study. • Subsequently, Govt. of Chhattisgarh vide its letter dated 29th January, 2019 has issued work order to ICFRE for aforementioned study. • Scope is for preparation of Integrated Wildlife Management Plan (IWMP), identification of conservation area and the expert committee of ICFRE will recommend mitigations measures. • Study will be completed within 18 months from the date of issuance of work order
2	Opinion of Ministry of Law & Justice/ASG on applicability of the approval accorded by the then Hon'ble MEF&CC vide order dated 23 rd June, 2011 for prospecting in the said coal block/other coal blocks in Hasdeo Arand forest area pending final disposal of the matter in the Apex court	<ul style="list-style-type: none"> • Proposal of Forest Clearance for Parsa Coal Block was considered in FAC meeting held on 19th December, 2018 after receipt of expert legal opinion from ASG. • FAC noted that Additional Solicitor General of India (ASG) has tendered his opinion, that there is no legal restriction for FAC to consider the instant proposal. ASG opined that, <i>"I am, therefore, of the opinion that there is no bar for the FAC to consider the proposal for in-principle approval and the pending case before the Supreme Court has no bearing with the 'Parsa Coal Block' as such. However, it must be clarified that the FAC is competent and not restricted in any manner to take any decision in</i>

		<i>regard to the proposed conversion of land on any scientific or environmental concern which it may have”.</i>
3	Success of reclamation works in the adjoining coal blocks (Tara & PEKB)	<p>FAC in its meeting dated 19th December, 2018 formed the following sub-committee to make a site inspection, examine the relevant issues and submit its report so that the matter can be placed before FAC again for final decision-</p> <ol style="list-style-type: none"> 1. Shri Kanwaljeet Singh, APCCF, RO, MoEF&CC, Nagpur 2. Shri S.S.Bajaj, Nodal Officer (FCA), Govt. of Chhattisgarh 3. Shri Deepak Mohanty, Member, FAC <p>The sub-committee carried out the site visit on 8th January, 2019, except Shri. S S Bajaj, Nodal Officer, could not accompany the subcommittee</p> <p>Findings of sub-committee regarding success of reclamation works in the adjoining coal blocks- the view/findings are</p> <ul style="list-style-type: none"> • Though the mining operations in the Parsa East and Kante Basen coal block started in February, 2013 and are still going on, no mining operations have started in the Tara coal block, which is still intact • More than five year have elapsed since the Hon'ble Minister has noted his observations on 23th June, 2011 • In the Parsa East and Kante Based Open cast mine project the back filling and reclamations works have started from the year 2013-14 onwards and so far an area of approximately 161 ha has been back filled and 121.77 ha been treated with plantation and biological reclamation. • It pointed out that so far an area of 537.24 ha has already been broken up and sequential mining and reclamation is also going on and so far 161.63 ha has been back-filled, 79.70 ha physically reclaimed and 50.2 ha of internal dumps 43.62 ha of external dumps and 21.96 ha of other area have been reclaimed through plantation/biological reclamation. • Subsequent reclamation / plantations work is appreciable. • Accordingly, Stage I Forest Clearance has been issued by MoEF&CC vide its letter F.No. 8-36/2018-FC dated 13th February, 2019

4	<p>The Committee also insisted for compliance of its earlier recommendations in respect of opinion of the State Wildlife Board on impact of existing and proposed mining operations on elephant movement and other wild life species needs to be sought, in view of part of the area proposed for Lemru Elephant Reserve</p>	<ul style="list-style-type: none"> • PCCF (Wildlife), State Wildlife Department in its letter dated 18th May 2018 to MoEF&CC informed following to MoEF&CC. • As per records of forest Department, Mining Lease Area of Parsa Opencast Coal Mine Project of 5 MTPA and Pit Head Coal Washery of 5 MTPA of M/s Rajasthan Rajya Vidyut Utpadan Nigam Limited in Districts Surguja & Surajpur (Chhattisgarh) does not fall in any notified protected area including national parks, wildlife sanctuaries, animal/elephant corridors etc. Proposed Project area also does not fall in 10 Km radius of any such protected area. • State Government vide letter No. F-5-6/10-2/2009 dated 20th July 2009 rejected the proposal of Lemru Elephant Reserve. So, Lemru Elephant Reserve does not exist. • It was also decided that wildlife conservation and management has to be carried out by improving habitat of the existing national park and sanctuaries rather than creating new elephant reserve, national park and sanctuary. • As per records of local forest officials as well as study undertaken for Wildlife Conservation Plan for Parsa Opencast Coal Mine Project of 5 MTPA and Pit Head Coal Washery of 5 MTPA, this area is not a regular habitat/corridor of elephants. Although occasional visits of stray elephants have been reported in the area resulting into human-wildlife conflict and property damages. • Keeping that in mind, an elaborate Wildlife Management Plan with an estimated cost of Rs. 12.16 Crs, has been prepared by Mr. Ashok Masih, (Retd. APCCF) Member of "Society for Social Services, Madhya Bharat Chapter, Bhilai" to mitigate the impact of project, if any. Effective mitigation measures have been taken particularly with reference to elephant movement and protection. Wildlife Management Plan has also been approved by CWLW, Chhattisgarh vide letter dated 8th June, 2017. • In Wildlife Management Plan, provisions to reduce human-animal conflict, solar fencing, public awareness, establishment of Elephant Control Room at divisional level, Elephant Protection Team at range level and Elephant
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		Friend Group (Hathi Mitra Samooh) at concerned village level has been made.
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43.4.6 During deliberations on the proposal, the Committee noted the following:-

The proposal is for environmental clearance to Parsa Opencast Coal Mining Project of 5 MTPA and Pit Head Coal Washery of 5 MTPA of M/s Rajasthan Rajya Vidyut Utpadan Nigam Limited in an area of 1252.447 ha located in Hasdeo-Arand Coalfields in Districts Surguja & Surajpur (Chhattisgarh).

Out of the total project area, forest land involved is 841.538 ha. For diversion of the said forest land to non-forestry purposes, stage-I forest clearance has been granted by the Ministry vide letter dated 13th February, 2019.

ToR for the project was granted on 23rd March, 2015. Public hearing was conducted by the State Pollution Control Board on 29th October, 2017 in District Surguja and 12th November, 2017 in District Surajpur. Main issues raised during public hearing included permission required from Gram Sabha, loss of agriculture and farmers affecting livelihood, impact on ground water availability, pollution concerns, cumulative impact of nearby/adjoining mining projects, diversion of nallah, etc. The project proponent has submitted the action plan along with the timelines and funding management to address the issues, suggestions and the representations received during public consultations.

Mining Plan, including the Progressive Mine Closure Plan, has been approved by the Ministry of Coal vide their letter dated 10th November, 2016.

Baseline air quality values at ambient air quality monitoring stations, would be in the range of 20-32.30 ug/m³ for PM_{2.5}, 31.80-61.50 ug/m³ for PM₁₀, SO₂ from 8.70 -13.70 ug/m³ and NO_x from 10.20 -16.80 ug/m³, and thus meeting the prescribed standards.

Detailed comments/inputs and the action plan submitted by the project proponent in response to its observations during the last meeting held on 27th September, 2018, as stated in the above para 43.4.5, were found to be in order. However, the same requires monitoring at regular intervals for effective implementation of the action plan and/or the commitments made by the project proponent.

43.4.7 *The EAC, after detailed deliberations, recommended for environmental clearance to Parsa Opencast Coal Mining Project of 5 MTPA and Pit Head Coal Washery of 5 MTPA of M/s Rajasthan Rajya Vidyut Utpadan Nigam Limited in an area of 1252.447 ha located in Hasdeo-Arand Coalfields in Districts Surguja & Surajpur (Chhattisgarh), subject to the orders of Hon'ble Supreme Court in Civil Appeal No.4395/2014 in the matter of Rajasthan Rajya Vidyut Utpadan Nigam Limited Vs Sudiep Shrivastava and other matters pending in Hon'ble Supreme Court or Hon'ble High Court of Chhattisgarh, and the specific conditions as below:-*

- *The Committee shall monitor onsite implementation of the observations of the Water Resources Department of the State Government regarding nallah diversion, and also deliberate on the suggestions/comments of Tribal Welfare Department regarding applicability of PESA.*

- The EAC shall also review the implementation of Wildlife Management Plan approved by Chief Wildlife Warden, Government of Chhattisgarh, and the study conducted by ICFRE on conservation of bio-diversity and wildlife as committed by the project proponent.
- All terms and conditions stipulated in the stage-I forest clearance dated 13th February, 2019 for diversion of 841.538 ha of forest land, shall be strictly complied with.
- All the public representations received in the Ministry raising environmental concerns, shall be suitably addressed by the project proponent, followed by their confirmation/endorsement by the State Government/SPCB.
- Action plan submitted by the project proponent along with the timelines and funding management to address the issues, suggestions and representations received during public consultations, shall be strictly adhered to.

The grant of environmental clearance shall be further subject to adherence to environmental safeguards as under:-

(i) The project proponent shall obtain Consent to establish from the State Pollution Control Board for the Coal Mining project of 5 MTPA and the Coal Washery of 5 MTPA prior to commencement of works.

(ii) To control the production of dust at source, the crusher and in-pit belt conveyors shall be provided with mist type sprinklers.

(iii) Mitigating measures shall be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient water sprinklers. Adequate corrective measures shall be undertaken to control dust emissions, which would include mechanized sweeping, water sprinkling/mist spraying on haul roads and loading sites, long range misting/fogging arrangement, wind barrier wall and vertical greenery system, green belt, dust suppression arrangement at railway siding, etc.

(iv) Continuous monitoring of occupational safety and other health hazards, and the corrective actions need to be ensured.

(v) Persons of nearby villages shall be given training on livelihood and skill development to make them employable.

(vi) To ensure health and welfare of nearby villages, regular medical camps shall be organized at least once in six months.

(vii) A third party assessment of EC compliance shall be undertaken once in three years through agency like ICFRI /NEERI/IIT or any other expert agency identified by the Ministry.

(viii) Permission for ground water withdrawal shall be obtained from Central Ground Water Authority (CGWA), if applicable. Total fresh water requirement shall not exceed 2385 cum/day, proposed to be met from mine sump water or from Right Bank Canal of Hasdeo Barrage.

(ix) Study shall be carried for sustenance of water supply to cater to projected demand of the proposed washery from the abandoned mine(s) throughout planned life of the washery.

(x) Impact of proposed project/activity on hydrological regime of the area shall be assessed and report be submitted.

(xi) Ash content below 34% should be maintained in washed coal to be transported beyond 500 km for use in thermal power plants.

(xii) The washing technology so chosen should conform to 'Zero Liquid Discharge'.

(xiii) More locations (4-5 nos) to be identified in downwind areas in the buffer zone for ambient air quality monitoring in consultation with the State Pollution Control Board.

(xiv) Disposal of washery rejects shall be in accordance with the extant policy and guidelines, and environment friendly.

(xv) Thick green belt of adequate width to be provided around the washery to mitigate/check the dust pollution. A 3-tier avenue plantation should also be developed along vacant areas, storage yards, loading/transfer points, and also along internal roads/main approach roads.

Agenda No.43.5

Expansion of Gondegaon Extension Opencast Coal Mine Project for expansion from 2.5 MTPA to 3.5 MTPA by M/s Western Coalfields Limited in an area of 917 ha in Village Gondegaon, Tehsil Parseoni, District Nagpur (Maharashtra) - Extension/Continuation of Environmental Clearance

[IA/MP/CMIN/7214/2005;F.No.J-11015/115/2006-IA.II (M)]

43.5.1 The proposal is of extension/continuation of environmental clearance to the expansion of Gondegaon Extension Opencast coal mining project from 2.5 to 3.5 MTPA capacity in mine lease area of 845.74 ha of M/s Western Coalfields Limited located in village Gondegaon, Tehsil Parseoni, District Nagpur (Maharashtra).

43.5.2 The proposal was earlier considered by the EAC in its meeting held on 21st July, 2018. During the meeting, the Committee desired for additional information in respect of the following:-

(i) EIA studies to be carried out with one season baseline data, and the Environment Management Plan to be prepared accordingly,

(ii) Redressal of issues raised during the last public hearing conducted by the SPCB on 26th April, 2005, along with the R&R details, if any, duly certified by the State Government,

(iii) Public notice to be issued in leading newspapers (one national and two local) for information of the stakeholders about commencement of the project and present coal mining operations of capacity 2.50 MTPA in mine lease area of 917 ha, inviting comments and their redressal,

(iv) Compliance status of the conditions stipulated in the environmental clearance dated 14th March, 2018 from the Regional Office at Nagpur,

(v) Details of court cases and the compliance status,

43.5.3 During deliberations, the EAC noted the following:

The proposal is for continuation of environmental clearance dated 14th March, 2018 to the expansion of Gondegaon Extension Opencast coal mine project from 2.5 to 3.5 MTPA capacity in an area of 917 ha (mine lease area of 845.74 ha) of M/s Western Coalfields Limited located in village Gondegaon, Tehsil Parseoni, District Nagpur (Maharashtra).

Para wise compliance of the earlier observations are reported to be as follows:-

S. No.	Observations	Compliance status
1	EIA studies to be carried out with one season baseline data, and the Environment Management Plan to be prepared accordingly	One season baseline data has been generated during the period from October 2018 to January, 2019. Environment Management Plan has been prepared accordingly.
2	Redressal of issues raised during the last public hearing conducted by the	Public hearing for the project for its capacity of 2.50 MTPA capacity in an area of 917 ha

	<p>SPCB on 26th April, 2005 along with the R&R details, if any, duly certified by the State Government.</p>	<p>was conducted on 26th April, 2005 at Bachal Sabhagruha, Collectorate, Nagpur Dist. Nagpur. Major issues raised in the public hearing included:</p> <ul style="list-style-type: none"> • WCL shall take measure to control air, soil & water pollution to maintain ecological balance and environmental deglaciation • In case of mine water in adjacent areas goes down, WCL shall take exhaustive ground water recharging works for recuperation of ground water level and supply of water to the affected villages during scarcity f water. • For maintaining ecological balance in surrounding area WCL shall carry out massive tree plantation in open areas as well as avenue plantation on public roads. • As per representation of villagers WCL shall take a repairing works/tarring of roads where trucks are passing. • WCL shall examine the representation submitted by Sarpanch to carry out social development works in affected villages in consultation with district administration. • It is recommended that the matter related to acquisition of land employment if any should be done on priority basis. • The continuous ambient air quality monitoring station shall be installed in mine premises & results shall be displayed at local Panchayat & Maharashtra Pollution control board. <p>MPCB vide letter dated 23rd January, 2019 has observed during site visit to the area and documents submitted by mine project authorities, is complying with the issues raised during public hearing especially regarding air, water, pollution control and ecological balance, ground water recharging as tree plantation, creating percolation tanks and rain water harvesting systems, tarring/concrete of coal transportation road and along with avenue plantation on coal transportation roads. Mine project authority are observed in process to install CAAQMS Station. WCL project authority shall continuous maintenance of all above works for pollution control and environmental protection in the surrounding area.</p>
3	Public notice to be issued in leading newspapers for information of the	Public notice about commencement of the project was issued in leading newspapers

	stakeholders about commencement of project and present coal mining operations of capacity of 2.50 MTPA in mine lease area of 917 ha, inviting comments and their redressal	(one national and two local) for information of stakeholders inviting comments within 30 days. No comments were received during the stipulated period.
4	Compliance status of the conditions stipulated in the environmental clearance dated 14th March, 2018 from the Regional Office at Nagpur	The Ministry's Regional Office at Nagpur has conducted site inspection on 3 rd January, 2019 to monitor the status of compliance of conditions stipulated in the environmental clearance dated 14 th March, 2018, and submitted report vide their letter dated 21 st January, 2019. No non compliance was observed during the site visit.
5	Details of court cases and the compliance status,	No court cases, violation cases are pending against the project of the PP pertaining to environment.

43.5.4 *The EAC, after detailed deliberations and duly considering compliance of its earlier observations during the meeting held on 21st July, 2018, and also those of the Ministry's Regional Office in their letter dated 21st January, 2019, recommended for continuance of the environmental clearance dated 14th March, 2018 for a period of one year, subject to the terms and conditions stipulated therein remaining the same.*

Agenda No.43.6

Dipka Opencast mine Project of from 31 to 35 MTPA in Capacity in an ML area of 1999.293 ha of M/s South Eastern Coalfields Limited located in District Korba, (Chhatisgarh) - For Extension/Continuation of EC

[IA/MP/CMIN/7214/2005; F. No.J-11015/115/2006-IA.II (M)]

43.6.1 The proposal is for expansion of EC validity beyond 31st March, 2019 & amendment in EC capacity from 41 MTPA to 49 MTPA in respect of Dipka Opencast coal mine in mining lease area of 4184.486 ha of M/s South Eastern Coalfields Limited in District Korba (Chhattishgarh).

43.6.2 During deliberations, the EAC noted the following:-

The project was granted environmental clearance by the Ministry vide letter dated 20th February, 2018 till 31st March, 2019, subject to compliance of certain terms and conditions, inter-alia including the following:-

(i) Adequate ambient air quality monitoring stations shall be established in consultation with the State Pollution Control Board, and regular monitoring shall be carried out for particulate emissions (both PM₁₀ & PM_{2.5}), SO₂ & NO_x. The monitoring results for the period during summer season (April-June, 2018) shall be submitted to the State PCB and the Regional Office of this Ministry.

(ii) The EAC shall review compliance of the actions taken on observations of the Regional Office before December, 2018, and make its recommendations for continuance of the project thereafter. Also, based on the monitoring results, the Committee shall examine adequacy and efficacy of the pollution control measures and its impact on ambient air quality.

The Ministry's Regional Office at Nagpur has conducted site inspection of the project site on 1st December, 2018 to monitor the status of compliance of conditions stipulated in the environmental clearance dated 20th February, 2018, and submitted report vide their letter dated 19th January, 2019. The project proponent has, however, not submitted any action taken report to the Regional Office on their observations.

43.6.3 *The EAC, after detailed deliberations and duly considering observations of the Ministry's Regional Office in their letter dated 19th January, 2019, recommended for continuance of the environmental clearance dated 20th February, 2018 for a period of one year, subject to endorsement of the action taken report by the Ministry's Regional Office and further subject to the terms and conditions stipulated therein remaining the same.*

Agenda No.43.7

Gevra Opencast Coal Mine Project of expansion from 41 MTPA to 49 MTPA in an ML Area 4184.486 ha of M/s South Eastern Coalfields Limited in located Village Gevra, Tehsil Katghora, District Korba (Chhattisgarh) - For Extension/Continuation of EC

[IA/CG/CMIN/19281/2013; F.No.J-11015/85/2010-IA-II(M)]

43.7.1 The proposal is for grant of EC for Gevra Opencast expansion Project from 41MTPA to 45 MTPA in Mining lease area of 4184.486 Ha of M/s South Eastern Coalfield Limited at district Korba(Chhattisgarh).

43.7.2 During deliberations, the EAC noted the following:-

The project was granted environmental clearance by the Ministry vide letter dated 21st February, 2018, subject to compliance of certain terms and conditions, inter-alia including the following:-

'The environmental clearance for the proposed increase in capacity shall be valid up to 31st March, 2019. The continuance of the project thereafter at the increased capacity, shall be based on evaluation of the proposed control measures and its impact on ambient air quality by the EAC in later half of the FY 2018-19.'

The Ministry's Regional Office at Nagpur has conducted site inspection of the project site on 12th December, 2018 to monitor the status of compliance of conditions stipulated in the environmental clearance dated 21st February, 2018, and submitted report vide their letter dated 21st December, 2018. The project proponent has, however, not submitted any action taken report to the Regional Office on their observations.

43.7.3 *The EAC, after detailed deliberations and duly considering observations of the Ministry's Regional Office in their letter dated 19th January, 2019, recommended for continuance of the environmental clearance dated 21st February, 2018 for a period of one year, subject to endorsement of the action taken report by the Ministry's Regional Office and further subject to the terms and conditions stipulated therein remaining the same.*

Agenda No.43.8

Chotia-II Captive coal mining project of 1MTPA in an area of 316.826 ha of M/s Bharat Aluminium Company Limited located in Village Salaigot, Tehsil & District Korba (Chhattisgarh) - Amendment in EC

[IA/CG/CMIN/50275/2016; F.No.J-11015/96/2004-IA-II(M)]

43.8.1 The proposal is for amendment in environmental clearance dated 18th July, 2018 to Chotia-II Captive coal mining project of 1 MTPA of M/s Bharat Aluminium Company Limited in total mine lease area of 316.826 ha located in Salaigot Village, Tehsil Podiuprodha, District Korba (Chhattisgarh).

43.8.2 Earlier, the EAC, while considering the proposal for environmental clearance to Chotia II coal mining project in its meeting held on 18th April, 2018, observed and recommended the following:-

(i) Chotia-II coal mining project of 0.25 MTPA (UG) in mine lease area of 410.982 ha was earlier granted environmental clearance by the Ministry vide letter dated 10th November, 2009 in favour of M/s Prakash Industries Limited. Subsequent to cancellation of the coal block pursuant to the Order of Supreme Court, and its reallocation to M/s BALCO, the said EC was transferred in their name on 17th June, 2015, subject to the same set of conditions.

(ii) The said project is in combined mine lease area of 1179.826 ha (both for Chotia-I&II), which includes mine lease area of 863 ha allocated for Chotia-I project and 316.826 ha for Chotia-II. Total mine lease area comprises 960.286 ha of forest land, which includes 643.460 ha for Chotia-I and 316.826 ha for Chotia-II. Out of the forest land of 316.826 ha for Chotia-II, an area of 273.906 ha has already been diverted for non forestry purposes, whereas stage-I forest clearance has been accorded for the remaining 42.92 ha of forest land.

(iii) Details of Forest Clearance of Chotia I and II

Area for which clearance granted	Breakup of area in sub blocks (as per PP)		Clearance details	
	Chotia I	Chotia II	Stage I granted on vide attached letter	Stage II granted on vide attached letter
188.326 Ha	181.5 Ha	6.826 Ha	10/11/2005	29/03/2006
726.349 Ha	459.269 Ha	267.08 Ha	04/01/2011	07/06/2011
Total: 914.675 ha	640.769 ha	273.906 ha	Forest Clearance transferred to M/s BALCO vide MoEF&CC letter F.No8-64/2005 dated 18 th May, 2015	
Balance Area under general approval granted by MoEF	Breakup of area in sub blocks			
45.611* ha	2.691 ha	42.92 ha	1/04/2015	
Total (960.286 ha)	643.46 ha	316.826 ha		

* 2nd Stage forest clearance is not required for 45.611 ha area as Balco intending to retain this land within mining lease but not proposing any non-forestry activities in the said area.

(iv) The EAC insisted for single environmental clearance, both for Chotia-I & Chotia-II, against combined mining lease of 1179.826 ha and single Mining Plan. Further, in view of the Chotia-I

remains an integral part of the combined mining lease area of 1179.826 ha, the Committee also asked for monitoring report on compliance status of the conditions stipulated in the EC dated 10th November, 2005 issued in favour of M/s Prakash Industries Ltd, later transferred to M/s Bharat Aluminium Company Ltd on 4th June, 2015.

(v) The Committee, in view of separate ECs obtained earlier for Chotia-I & Chotia-II, their transfer to M/s BALCO subsequent to fresh allocation of these mines by the Nominated Authority, separate ToR issued and the fresh public hearing conducted, recommended the project for grant of environmental clearance to Chotia-II Coal Mining project of capacity 1 MTPA (opencast)/0.30 MTPA (underground) of M/s Bharat Aluminium Company Limited in mine lease area of 316.826 ha, for a period of one year, subject to the compliance of terms and conditions as applicable, and the additional conditions.

43.8.3 During deliberations on the proposal, the Committee noted the following:-

The proposal is for amendment in environmental clearance dated 18th July, 2018 to Chotia II Captive coal mining project of capacity 1 MTPA (OC)/0.30 MTPA (UG) of M/s Bharat Aluminium Company Limited (BALCO) in mine lease area of 316.826 ha located in Salaigot Village, Tehsil Podiuprodha, District Korba (Chhattisgarh).

Mining Plan for peak capacity of 1 MTPA (OC & UG) was approved by Ministry of Coal on 11th March, 2016. Mine closure plan is an integral part of the Mining Plan.

Based on fresh ToR issued and the public hearing conducted for Chotia II project as standalone, environmental clearance was granted by the Ministry on 18th July, 2018 to Chotia-II Coal Mining project in mine lease area of 316.826 ha, for a period of one year, subject to the compliance of terms and conditions as applicable, and some additional conditions.

Amendment in environment clearance dated 18th July, 2018 has been sought to revise the condition stipulated therein at para 4 (ii) for obtaining single EC against combined mining lease and mining plan to continue the project after one year.

43.8.4 *The EAC, after deliberations, desired that the Ministry may take a comprehensive on their observations for the requirement of single environmental clearance, both for Chotia-I & Chotia-II, against combined mining lease of 1179.826 ha and the single Mining Plan.*

Further, in view of Chotia-I remains an integral part of the combined mining lease area of 1179.826 ha, the Committee asked for revalidation of its EC dated 10th November, 2005 as mandated under the Ministry's Notification dated 6th April, 2018, to consider the present proposal for amendment in the EC for Chotia-II.

Agenda No.43.9

Himgir coal washery Project for (5 MTPA) in an area of 13.52 ha of M/s ACB (INDIA) Limited located in Tehsil Himgir District Sundargarh, (Odisha) - For Amendment in Environmental Clearance

[IA/OR/CMIN/82320/2009; F.No. J-11015/925/2007-IA-II(M)]

43.9.1 The proposal is for amendment in the EC Himgir coal washery Project for (5 MTPA) in an area of 13.52 ha of M/s ACB (INDIA) Limited located in Tehsil Himgir District Sundargarh, (Odisha).

43.9.2 Details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meeting, are given as under:

- (i) The area can be located in Survey of India Toposheet No. 64 O / 9. It is bounded by Latitude 210 53' 29.2" N to 210 53' 38.9" N and Longitude 830 43' 28.9" E to 830 43' 38.5"E
- (ii) Nearest railway station: Hemagir at a distance of 2 kms from the project site
- (iii) No change in land Use is envisaged. 5.00 MTPA Himgir Washery is already established
- (iv) 2.699 Ha for laying Conveyor belt for Washed Coal transfer from Washery site to Railway siding. For which FC obtained. FC Order No. 5- ORB171/2013 – BHU dtd.28 June 2016
- (v) Water would be required for working of the drum washer and for dust suppression. The total requirement would be 300 M3 /Day. For barring natural losses, it is proposed to recycle the water for own industrial use. The source of water would be the Brahmani Nala
- (vi) Coal from Vasundhara and other open cast mines of IB Valley coalfields of Mahanandi Coalfields Ltd (MCL) are used
- (vii) There is no national park/wild life sanctuary/biosphere reserve/ tiger reserve/ elephant reserve in the core (project area) and buffer zone (10 km radius of the project area).
- (viii) Barghumra Reserve forest is at a distance of 50 meters from the project site towards south. Garjan Pahar Reserve Forest is— towards west of project site at a distance of 560 meters. Chhengapahar Reserve Forest is— at distance of 380 meters towards east of project site and 100 .00 meters towards north of project site.
- (ix) Brahmani Nala is flowing at a— distance of 550.0 meters towards west of Project site.

43.9.3 After deliberation EAC noted the following:

The proposal is for amendment in the EC conditions of Himgir coal washery Project for (5 MTPA) in an area of 13.52 ha of M/s ACB (INDIA) Limited located in Tehsil Hemgir District Sundargarh, (Odisha).

Project Proponent was accorded Environment Clearance by Ministry vide No. J-11015/925/2007-IA.II(M) dated 22nd June, 2009 for Himgir Coal Washery by wet process (5 MTPA of raw coal) of M/s Aryan Coal Beneficiation Pvt Ltd, located in village Kanika, Tehsil Himgir, District Sundargarh (Odisha).

Amendment has been sought in two EC conditions as given below:

Specific Condition No (ii): " The Proponent shall establish a Closed Conveyor System within 3 (Three) years for transportation of Washer Coal between the Washery and the Railway Siding at Himgir and prior Forestry Clarence shall be obtained under the Provisions of the FC Act, 1980". Specific Condition No. (iii) – "The entire coal rejects shall be used in an FBC based TPP. The linked FBC based Thermal Power Plant shall be commissioned within two years of Operation of

43.9.3 *The EAC, after deliberations, asked the project proponent for transfer of the environmental clearance dated 22nd June, 2005 from M/s Aryan Coal Beneficiation Pvt. Ltd to M/s ACB (INDIA). The proposal was not found admissible, and deferred for the needful.*

Agenda No.43.10

Cluster XI group of mines (4.18 MTPA with a peak capacity of 5.004 MTPA) in a combined ML area of 3527.14 ha of M/s Bharat Coking Coal Limited, located in Jharia Coalfields, District Dhanbad (Jharkhand) - Further consideration for amendment in EC

43.10.1 The proposal is for amendment in the EC for Cluster XI group of mines 4.18 MTPA with a peak capacity of 5.004 MTPA in a combined ML area of 3527.14 ha of M/s Bharat Coking Coal Limited, located in Jharia Coalfields, District Dhanbad (Jharkhand).

Existing EC Specific Condition (iii) vis-à-vis Proposed Amendment

S N o.	As per Existing EC J-11015/77/2011-I(A).II(M) Dated 26th August, 2013				Amendment sought				
	Name of the Mine	Peak Production Capacity (MTY)	Lease Area (Ha)	Mine Life (Years)	Name of the Mine	Proposed Amendment / New Proposal	Peak Production Capacity (MTY)	Lease Area (Ha)	Mine Life (Balance Yrs)
1	Gopalichuck UG Mine	0.143	241.94	30	Gopalichuck UG Mine		0.143	241.94	30
					Gopalichuck OC Mine	Excavation of fiery coal under Jharia Master Plan	0.65		
2	Kachi Balihari 10/12 Pit UG Mine	0.117	60	19	Kachi Balihari 10/12 Pit UG Mine	-	0.117	60	19
3	PB UG Project	1.04	89	30	PB UG Project	-	1.04	89	> 30
4	Bhagabandh UG Mine	0.104	581.17	10	Bhagabandh UG Mine	-	0.104	581.17	10
5	Kendwadih UG Mine (Closed)	0	217.54	0	Kendwadih OC Mine	Excavation of fiery coal under Jharia Master Plan	0.26	217.54	23
6	Pootkee UG Mine (Closed)	0	153.77	0	Pootkee UG Mine (Closed)	Master Plan under implementation	Nil	153.77	0
7	Kachi Balihari 5/6 Pit UG Mine (Closed)	0	120.71	0	Kachi Balihari 5/6 Pit UG Mine (Closed)	Master Plan under implementation	Nil	120.71	0
8	Moonidih UG Mine	5.2	1983.01 (2063.45-80.44)*	50	Moonidih UG Mine	-	4.16	1982.90 (2063.45-80.55)*	28
Total		6.604	3447.				6.474	3447.0	

			14				3	
9	Moonidih Washery (included in Moonidih UG Mine)	1.60	25.60	18	Moonidih Washery (included in Moonidih UG Mine)	1.6	25.60	18

43.10.2 The project was earlier considered by the EAC in its meetings held on 27th October, 2017 & 28th June, 2018. During the meeting held on 27th October, 2017, the proposal was deferred for want of the Mining Plan of Gopalichack OC mine and Kendwadiah OC mine for the cluster, revised and duly approved by Ministry of coal/Board of M/s BCCL.

During the meeting held on 28th June, 2018, the Committee observed that forest land of 80.44 ha being a part of lease area and/or Mining Plan of Moonidih UG Mine of capacity 5.2 MTPA, remains an integral component of the Cluster XI and necessarily requires stage-I FC for grant of environmental clearance to the said Cluster and/or amendment therein. The Committee further desired that the same may be exempted only if the Mining Plan for Moonidih UG Mine is revised to exclude the forest land.

43.10.3 During deliberations, EAC noted the following:

The proposal is for amendment in environmental clearance dated 26th August, 2013 granted by the Ministry in favour of M/s Bharat Coking Coal Limited for Cluster XI group of mines of combined capacity 5.08 MTPA (normative)/6.604 MTPA (peak) and Moonidih Washery of 1.6 MTPA in a total 3527.58 ha located in Jharia Coalfields, District Dhanbad (Jharkhand).

The amendment has been sought for increase in capacity of two individual mines namely Gopalichak Colliery (from 0.143 MTPA UG to 0.65 MTPA Mixed) and Kendawadih colliery (zero to 0.26 MTPA OC) without any change in combined peak production capacity of 6.604 MTPA, but the total mine lease area reduced from 3527.58 ha to 3447.03 ha (excludes forest area of 80.55 ha involved in lease hold of Moonidih UG Mine). The proposal is mainly for implementation of master plan dealing with fire and subsidence. Revised Mining plan for the changed capacities of individual mines namely, Kendwadiah Colliery, Gopalichuck Colliery and also that of Moondih UG has been approved by the Board of M/s BCCL on 4th May, 2018 & 4th November, 2017 and 29th January, 2019.

Mining Plans for the individual mines namely, Gopalichak, Kendwadiah and Moonidih, have been revised on the above lines and approved by the Board of M/s BCCL, with the details as under:-

S. No.	Mine	Date of Approval of Mine Plan
1	Gopalichack	335 th BCCL Board meeting dated 04.11.2017
2	Kendwadiah	342 nd BCCL Board meeting dated 04.05.2018
3	Moonidih	348 th BCCL Board meeting dated 29.1.2019

43.10.4 *The EAC, after deliberations, recommended for amendment in the EC dated 26th August, 2013 to effect change in production capacity of Gopalichak Colliery from 0.143 MTPA to 0.65 MTPA (mixed), Kendwadiah colliery from Nil to 0.26 MTPA (opencast) and reduction in mine lease area of Moonidih UG mine from 1983.01 ha to 1902.46 ha without any change in combined peak production capacity of Cluster XI as 6.604 MTPA with the area of the Cluster*

reduced to 3447.03 ha, subject to lease area of Moonidih UG Mine revised accordingly and other terms and conditions remaining the same.

Agenda No.43.11

Gare IV/4 Opencast Coal Mining Project of 1 MTPA in ML area of 701.512 ha of M/s Hindalco Industries Limited located in District Raigarh (Chhattisgarh) - For Amendment in Environmental Clearance

[IA/CG/CMIN/7679/2010; F.No. J-11015/183/2010-IA.II(M)]

43.11.1 The proposal is for amendment in the EC for providing flexibility in production capacity from Underground and Opencast Mine of Gare-Palma IV/4 up to 0.6 MTPA each, keeping overall limit up to 1.0 MTPA in ML area of 701.512 ha of M/s Hindalco Industries Limited located in District Raigarh (Chhattisgarh).

43.11.2 Details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meeting, are given as under:

- (i) The project area is covered under Survey of India Topo Sheet No 64 N/12 and is bounded by the geographical coordinates ranging from 22° 07' 40.015" N to 22° 10' 20.740" N and 83° 31' 16.008" E and 83° 33' 37.747" E.
- (ii) Coal linkage of the project is proposed for captive use for
 - a. Captive power generation (Captive Power Plant -900 MW [6x150 MW] of Aditya Aluminium Project- Lapanga, Dist. Sambalpur, Odisha - 171.43 MT (Million Tonnes)
 - b. Captive Power Plant of Hirakud complex Hirakud, Dist. Sambalpur, Odisha 467.5 MW [4X 100 MW & 1X 67.5 MW]- 89.81 MT (Million Tonnes)
- (iii) Joint venture cartel has been formed- Not Applicable
- (iv) Project does not fall in the Critically Polluted Area (CPA), where the MoEF&CC's vide its OM dated 13th January, 2010 has imposed moratorium on grant of environment clearance.
- (v) Employment generation: Being an operational mine, direct employment already generated for 1193 person from the project.
- (vi) The project is reported to be beneficial in terms of improvement of physical infrastructure, improvement in social condition, contribution to Exchequer and post mining enhancement of Green cover.
- (vii) Earlier, the environment clearance to the project was obtained under EIA Notification 2006 & its subsequent amendments, vide Ministry's letter NoJ-11015/183/2010-1A-II(M) dated 16th April, 2015 by MoEF&CC for 1 MTPA in mine lease area of 701.512 ha.
- (viii) Total mining lease area as per block allotment is 884.846 ha while the certified block area as per notification of Ministry of Coal vide letter F.No. 104/28/2015/NA dated 13th October, 2015 the block area as certified by CMPDIL, Ranchi vide let No. CMPDI/BD/C(886-A)/E-175692/I-4079 dated 03/07/2018 is 885.825 ha & agreement with State dated 20.10.2015. Out of the 884.846 Ha lease area, 183.334 Ha of forest land was surrendered by prior allottee resulting the project area to 701.512 Ha. The present project area is 683.272 ha which is within the certified block boundary (885.525 ha) as well as mining lease (884.846 ha).
- (ix) Mining Plan, including Progressive Mine Closure Plan, has been approved by the Ministry of Coal, Government of India vide letter No.34011/04/2018-CPAM dated 13th December, 2018.
- (x) The land usage pattern of the project is as follows:

Pre-mining land use details (in Ha)

		Area (Ha)
Tenancy	Agricultural	285.078

	Township	-
	Grazing	-
	Barren	50.344
	Water Bodies	-
	Road	-
	Community	-
	Inhabited	-
	Village	-
Govt Non forest	Agricultural	-
	Township	1.558
	Grazing /other	9.919
	Road	65.144
	Water body	21.333
	Other	17.153
Forest	Reserve	11.029
	Protected	318.716
	C-J-B-J	50.125
Free Hold	-	55.126
Total		885.525

Post Mining Area (In Ha):

Pre Mining Land Use "Ha"			Type	Land use (During Mining) as on 01.04.2018	At the end of mine life
Tenancy	Agricultural	285.078	Excavation Area (Back filled + Void)	71.62	187.635
	Township		Excavated Void	31.2	20.815
	Grazing		Back filled with Plantation	24.252	166.82
	Barren	50.344	Back filled without Plantation	16.168	0
	Water Bodies		Top Soil Dump	11.61	11.61
	Road		External Dump	12.1	12.1
	Community		Safety Zone	3.3	10.5
			Rationalisation area		
	Inhabited		Road diversion	4	4
	Village		Diversion/ below River/Nala/canal		1.108
Govt Non Forest	Agricultural	1.558	Road & Infrastructure area	9.036	6
	Township	9.919	Garland drains	2	3.75
	Grazing /other	65.144	Embankment	6	15
	Road	21.333	Green Belt	2	5
	Water body	17.153	Water Reservoir near pit/Water body		
	Other	11.029	UG entry	6	10
Forest	Reserve	318.716	Pit head power plant		

	Protected	50.125	Resettlement	4	4
	C-J-B-J	55.127	Undisturbed/ Mining right for UG	753.859	614.822
Free Hold	-		Others		
Total		885.525		885.525	885.525

Land Use (Post Closure)						
Tenancy	Plantation	Water Body	Public/ Company Use	Forest land	Undisturbed	Total
	206.03	25.673	39	423.968	190.854	885.525
Total	206.03	25.673	39	423.968	190.854	885.525

(xi) Total geological reserve reported in the block area is 42.08 MT with 28.88 MT mineable reserve. Out of total mineable reserve of 28.88 MT, 18.20 MT are available for extraction. Percent of extraction is 63.02%

(xii) 4 seams with thickness ranging from 0.15 m – 10.23 m are workable. Grade of coal is G4 to G11, stripping ratio 1: 8.23, while gradient is 1 in 16.

(xiii) Method of mining operations envisages by Opencast & Underground mining, Opencast by shovel Dumper and Underground development by Bord& Pillar with LHD.

(xiv) Life of mine is 13 years (zero date 1st April, 2018)

(xv) The project has 2 external OB dumps in an area of 23.71 ha with 8 m height and 0.5 Mm³ of OB. 2 internal OB in an area of 166.82 ha with height less than 70m & 73.69 Mm³ of OB is envisaged in the project.

(xvi) Total quarry area is 187.635 ha out of which backfilling will be done in 166.82 ha while final mine void will be created in an area of 20.815 ha with a depth of 95 m. Backfilled quarry area of 166.82 ha shall be reclaimed with plantation. Final mine void will be converted to water bodies for recharge of ground water.

(xvii) Transportation of coal is being done by road from mine pit head to end use plants.

(xviii) Reclamation Plan in an area of 225.031 ha, comprising of 23.71 ha of external dump, 166.82 ha of internal dump and 5 ha of green belt. In addition to this, an area of 29.5 ha, included in the safety zone/rationalization area, has also been proposed for green belt development within 225.031 ha.

(xix) 236.553 ha of forest land has been reported to be involved in the project. Approval under the Forest (Conservation) Act, 1980 for diversion of 236.553 ha of forest land for non-forestry purposes have been obtained vide MoEF&CC letter No. F.NO. 8-112/2002-FC (pt) dated 20th April 2010 & 8-112/2002-FC dated 8th May 2015 (Out of 419.887 Ha as mentioned in F.C., 183.334 Ha has been surrendered by prior allottee and working permission for 236.553 Ha has been granted. Forest Clearance granted and forest land transferred in favour of project proponent by State Government.)

(xx) No National Parks, Wildlife Sanctuaries and Eco-Sensitive Zones have been reported with 10 km boundary of the project.

(xxi) The ground water level has been reported to be varying between 3.05m to 15.70m during pre-monsoon and between 2.15 m to 12.70 m during post-monsoon. Total water requirement for the project is 562 KLD. NOC issued vide letter no.21-4(125)/NCR/CGWA-1695 dated 12th August 2016 and submitted renewal application on 06th August, 2018.

(xxii) NOC of the Central Ground Water Authority has obtained for 8472M³/day vide letter no.21-4(125)/NCR/CGWA-1695 dated 12th August 2016 and submitted renewal application on 6th August, 2018.

(xxiii) Public Hearing conducted by prior allottee for 1 MTPA on 2nd May 2012

(xxiv) Consent to Operate for the existing capacity was obtained from the State PCB vide letter 7228/TS/CECB/2018 naya Raipur dated 16.03.2018 and is valid till 31.03.2021.

(xxv) Kelo River is flowing at a distance of 1.5 km from the Mine in the west and 2 nallas are flowing within lease. No diversion of these 2 nallas are proposed.

(xxvi) Regular monitoring of ambient air quality is being carried out on monthly basis. The documented report is submitted to Member Secretary & Regional Officer, CECB and half yearly EC compliance report to Regional MoEF, Nagpur. In general, the results of ambient air quality monitoring data were found within prescribed limits.

(xxvii) No court cases, violation cases are pending against the project of the PP.

(xxviii) The project does not involve violation of the EIA Notification, 2006 and amendment issued there under. The coal production from the mine started from the December 2015 onwards after reallocation of the block to Hindalco Industries Limited. No excess production of coal from the sanctioned capacity has been realized since the commencement of mining operations. The coal production, realized from the project, from 2015-16 onwards, is as under:

Year	EC sanctioned capacity (MTPA)	Actual production (MTPA)	Excess production beyond the EC sanctioned capacity
2015-16	1.0	0.068	Nil
2016-17	1.0	1.000	Nil
2017-18	1.0	0.938	Nil

(xxix) The project involves 65 PAFs are involved out of which 51 PAFs have been resettled. The Rehabilitation / Resettlement will be carried out as per the Adarsh Chhattisgarh Punarvas Niti 2007 & The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013. The Rehabilitation Action Plan has been approved by State Government.

(xxx) Total cost of the project is Rs. 168.688 crores. Cost of production is Rs. 4268/- per tonne, CSR cost is Rs. 1.18 crore (FY 17-18), R&R cost is Rs 8.57 crores (Total Up to Jan 19). Environment Management Cost is Rs. 37.68 lakhs (FY 17-18).

43.11.3 During deliberations, the EAC noted the following

The proposal is for amendment in environmental clearance dated 12th March, 2013 granted by the Ministry in favour of M/s Jayaswal Neco Industries to Gare-Palma IV/4 Coal Block for production capacity of 1 MTPA (0.6 MTPA underground & 0.4 MTPA opencast mining) in mine lease area of 701.512 ha located in District Raigarh (Chhattisgarh).

Subsequent to cancellation of coal blocks pursuant to order of Hon'ble Supreme Court in August/September, 2014 and their reallocation to successful bidders, Gare Palma IV/4 coal block was vested with M/s Hindalco Industries Limited (HIL) vide Allotment Order No.104/16/2015/NA dated 23rd March, 2015. Accordingly, the said environmental clearance was transferred to M/s HIL vide Ministry's letter dated 16th April, 2015.

The new project proponent M/s Hindalco Industries Ltd has sought amendment in the said environment clearance for change in mining operations within the same mine lease area of 701.512 ha and total sanctioned capacity of 1 MTPA, with the details as under:-

Mining	Production Capacity (as per EC granted 16 th April, 2015)	Present (Amendment)	Proposal
Open cast Mine	0.4 MTPA	0.56 MTPA (Increase by 0.16 MTPA)	

Underground Mine	0.6 MTPA	0.44 MTPA (Decrease by 0.16 MTPA)
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Ministry of Coal, vide letter No.34011/04/2018-CPAM dated 13th December, 2018, has given approval to the Revised Mining Plan (3rd revision) for Gare Palma IV/4 coal mine, with the mining operations revised as above (Opencast 0.56 MTPA, Underground 0.44 MTPA).

43.11.3 The EAC, after deliberations, recommended for amendment in environmental clearance dated 12th March, 2013 to Gare Palma Coal Mining project of capacity 1 MTPA (Opencast 0.4 MTPA & Underground 0.6 MTPA) in mine lease area of 701.512 ha, issued in favour of M/s Jayaswal Neco Industries but transferred to M/s Hindalco Industries Ltd on 16th April, 2015, to effect change in mining operations as 0.56 MTPA open cast & 0.44 MTPA underground, with all other terms and conditions stipulated therein remaining the same.

Agenda No.43.12

Kakatiya Khani Opencast-III (KTK OC-III) coal mining project of capacity 3.75 MTPA (peak) by Opencast & 0.48 MTPA Underground in mine lease area of 1336.64 ha of M/s The Singareni Collieries Company Limited located in village Basawarajupalli, Tehsil Ghapur, District Jayashankar Bhupalpalli (Telangana) - Terms of Reference

43.12.1 The proposal is for ToR for Kakatiya Khani Opencast-III Project of 3.00 MTPA(Normative) 3.75 MTPA (peak) capacity by Opencast method and 0.48 MTPA capacity by Underground method in mine lease area of 1336.64 ha of M/s The Singareni Collieries Company Limited located in village Basawarajupalli, Tehsil Ghapur, District Jayashankar Bhupalpalli (Telangana).

43.12.2 Details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meeting, are given as under:

- (i) The project area is covered under Survey of India Topo Sheet No. 56 N/15..and is bounded by the geographical coordinates ranging from Latitudes 18°19'40" to 18°22' 56" N and longitudes 79°52'42" to E 79°55'30" E.
- (ii) Coal linkage of the project is proposed for producing power for Kakatiya Thermal Power Project (KTPP) and other various thermal power plants.
- (iii) Joint venture cartel has been formed - Not Applicable.
- (iv) Project does not fall in the Critically Polluted Area (CPA), where the MoEF&CC's vide its OM dated 13th January, 2010 has imposed moratorium on grant of environment clearance.
- (v) Employment generation, Permanent / Contractual employment to 1365/ 960 persons will be provided from the project (including existing manpower of 1113 of present Kakatiya khani long wall project).
- (vi) The project is reported to be beneficial in terms of socio-economics and improving living standards.
- (vii) Earlier, the environment clearance to the project was obtained under EIA Notification, 2006 vide Ministry's letter No. J-11015/464/2012-IA.II(M), dated 11.05.2015 for 2.747 MTPA (Normative) 3.13 MTPA (peak) in mine lease area of 601.20 ha.
- (viii) Total Project area is 1336.64 ha. Mining Plan (Including Progressive Mine Closure Plan) has been approved by the MoC on 19th November, 2018.
- (ix) The land usage pattern of the project is as follows:

Pre-mining land use details (Area in Ha)

Land owner ship	Land use	Extent (Ha)
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Land owner ship	Land use	Extent (Ha)
Forest	Forest	Nil
Private land	Agriculture	718.95
	Grazing	-
	Barren	-
	Built up area	13.63
	Water Bodies	3.73
	Road	0.97
Sub Total		737.28
Government Land	Agriculture	282.96
	Built up area	3.68
	Grazing	280.38
	Barren	--
	Water bodies	28.30
	Roads	4.04
Sub Total		599.36
Total		1336.64

Post Mining

Sl. No	Description	Land Use Details (ha)					Total
		Plantation	Water Body	Public/ Company Use	Agriculture	Undisturbed	
1a	Excavation (Backfill)	281.13	2.75		182.71		466.5
b	Excavation (Voids)		211.6				211.6
	Sub-total excavation:	281.13	214.3		182.71		678.2
2.	External Dump Yard	382.04					382.04
3.	Safe barrier, Roads, Drainage around quarry & Dump yard.	129.15	21.99	39.56			190.70
4.	Built up area / Infrastructure	38.71	0.32	11.09			50.12
5.	Nallah Diversion	19.31	6.58				25.89
6.	Undisturbed/NFL (Exclusive UG Area)					9.68	9.68
	Grand Total	850.34	243.26	50.65	182.71	9.68	1336.64

NOTE: The actual area of plantation is 1033.05 Ha out which 182.71 Ha of land will be reclaimed for agricultural use and balance area to an extent of 850.34 ha will be left as plantation area.

(x) Total geological reserve reported in the mine lease area is 120.37 MT with 89.16 MT mineable reserves. Out of total mineable reserve of 89.16 MT, 77.45 MT are available for extraction (out of 77.45 MT of extractable reserves balance extractable reserves are 75.89 MT as 1.56 MT were extracted by existing Kakatiya khani Long wall project from 2007-08 to 2017-18). Percent of extraction is 64.34%.

- (xi) 13 seams with thickness ranging from 0.2 m – 4.0 m are workable. Grade of coal is G-8, stripping ratio 13.48 Cum of OB per 1 tonne of coal, while gradient is 1 in 3.0.
- (xii) Method of mining operations envisages by Opencast cum Underground method (integrated/Mixed).
- (xiii) Life of mine is 31 years (Including construction period).
- (xiv) The project has One external OB dumps in an area of 382.04 ha with 120 m height and 252.52 Mm³ of OB (including 3.82 Mm³ of top soil).
- (xv) Total quarry area is 678.21 ha out of which backfilling will be done in 466.59 ha while final mine void will be created in an area of 211.62 ha with a depth of 300 m. Backfilled quarry area of 466.59 ha shall be reclaimed with plantation. Final mine void will be converted into water body
- (xvi) Transportation of coal has been proposed by Trucks / Dumpers in mine pit head, from surface to siding by Trucks / Dumpers and at sidings by road.
- (xvii) Reclamation Plan in an area of 1033.05 ha, comprising of 382.04 ha of external dump, 463.84 ha of internal dump 148.46 ha of green belt. In addition to this, an area of 38.71ha, included in the safety zone/rationalization area, has also been proposed for green belt development.
- (xviii) No forest land has been reported to be involved in the project.
- (xix) No National Parks, Wildlife Sanctuaries and Eco-Sensitive Zones have been reported with 10 km boundary of the project. Nil
- (xx) The ground water level has been reported to be varying between 1.14 m to 14.00 m during pre-monsoon and between 0.30 m to 11.95 m during post-monsoon. Total water requirement for the project is 2801 KLD.
- (xxi) Ground Water Clearance was obtained vide Lr. No.GWC-5855/Hg-II(1), dated 28.06.2006. An application for ground water clearance for proposed capacity was made on 17.12.2018.
- (xxii) Public hearing for the project (Kakatiya khani longwall project) of 2.15 MTPA capacity in an area of 601.2 ha was conducted on 14.03.2007 at Mandal Parishad Primary School, Basawarajupalli Village, Ghanpur mandal, Warangal district, AP. Major issues raised in the public hearing include proper compensation, proper mitigation measures to control pollution, employment to land losers. Appropriate action to address the issues raised in the Public Hearing have already been taken/proposed to be taken are as under:
- (xxiii) It was clarified that R&R will be implemented as per the Government rules.
- (xxiv) It was stated that SCCL is taking all the necessary steps to control environmental pollution as per the Rules, Regulations and Guidelines of MoEF&CC, GoI.
- (xxv) Consent to Operate for the existing capacity was obtained from the State PCB on 12.05.2016 and is valid till 31.12.2018. Applied for renewal on 28.11.2018.
- (xxvi) One seasonal nallah Gundla vagu is flowing in the 1336.64 ha boundary of lease. The nallah will be diverted in consultation with the Water Resource Department of the State Government.
- (xxvii) Regular monitoring of ambient air quality is being carried out on fortnightly basis. The documented report is submitted to TSPCB and also to RO office MoEF&CC along with half yearly EC compliance report. In general, the results of ambient air quality monitoring data were found within prescribed limits.
- (xxviii) No court cases, violation cases are pending against the project of the PP.
- (xxix) The project does not involve violation of the EIA Notification, 2006 and amendment issued there under. The coal production from the mine was started from the year 2007-08 onwards. No excess production of coal from the sanctioned capacity has been realized since the commencement of mining operations. The coal production, realized from the project, from 1993-94 onwards, is as under:

Year	EC capacity (MT)	Actual production in MT
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2007-08	2.150	0.071
2008-09		0.149
2009-10		0.191
2010-11		0.185
2011-12		0.144
2012-13		0.077
2013-14		0.084
2014-15		0.114
2015-16	2.747	0.112
2016-17		0.130
2017-18		0.300
Total		1.560

(xxx) The project involves 444 (PDFs) and 67 project affected families. R&R of the PAPs will be done as per prevailing Govt. Rules. Compensation to the land losers will be paid as per the directions of the State Govt.

(xxxii) Total cost of the project is Rs. 41,384 lakhs. Cost of production is Rs.1936.86/- per tonne, CSR cost is 2% of average net profits of the company made during last three years will be allocated for CSR at company level, R&R cost is Rs.34.776 crores. Environment Management Cost is

Capital Cost -

- i) Direct : Rs 10.54 Crores
- ii) Indirect : Rs 7.760 Crores

(xxxii) Consent to operate (CTO) was obtained from the State Pollution Control Board on 12.05.2016 and is valid till 31.12.2018. Applied for renewal on 28.11.2018. However, CTO for the proposal will be obtained after obtaining EC.

43.12.3 During deliberations, the EAC noted the following

The proposal is for terms of reference for Kakatiya Khani Opencast-III (KTK OC-III) coal mining project (mixed/integrated), carved out of the existing KTK Longwall project of M/s The Singareni Collieries Company Limited (SCCL) in an area of 1336.64 ha located in village Basawarajupalli, Tehsil Ghapur, District Jayashankar Bhupalpalli (Telangana). The project is proposed for capacity 3 MTPA (Normative)/3.75 MTPA(peak) by opencast and 0.48 MTPA by underground. There is no forest land has been reported to be involved in the project

Earlier, the environment clearance to the project was obtained under EIA Notification, 2006 vide Ministry's letter No. J-11015/464/2012-IA.II(M), dated 11.05.2015 for 2.747 MTPA (Normative) 3.13 MTPA (peak) in mine lease area of 601.20 ha. Public hearing for the project (Kakatiya khani longwall project) of 2.15 MTPA capacity in an area of 601.2 ha was conducted on 14.03.2007 at Mandal Parishad Primary School, Basawarajupalli Village, Ghanpur mandal, Warangal district, AP.

Ground Water Clearance was obtained vide Lr. No.GWC-5855/Hg-II(1), dated 28.06.2006. An application for ground water clearance for proposed capacity was made on 17.12.2018. One archeologically listed temple called Ramappa Temple exists within the buffer zone. One seasonal nallah viz. Gundla Vagu passes over the proposed quarry area. Hence, diversion of Gundla Vagu is planned.

During the EAC meeting held on 28th June, 2018, the committee advised the project proponent to explore for inclusion of the leftover area of the KTK Longwall project (on the dip side beyond

448m) in to the present proposal. The committee also suggested the project proponent to approach the Ministry of Coal for clarification/comments on the observations of the Ministry to expedite further consideration of the proposal.

However, the area to be included has been excluded by the project proponent and accordingly the PP presented the proposal in the current meeting. It was communicated that PP have received mining plan including mine closure plan approved from MOC dated Ref No. PCA-38011/12/2017-PCA dated 19th November, 2018 for 1336.64 ha duly deleting 88.98 ha.

Standing Committee of Ministry of Coal approved the Mining Plan (III Revision) & Mine Closure Plan of Kakatiya Khani OC III vide letter No. 3801 1/12/2017-PCA. dated 19th November, 2018 project of M/S Singareni Collieries Company Limited.

The PP also informed that out 601.20 ha for which EC dated 11th May, 2015 was already given. An area of 103.43 ha is being used for underground mining currently and remaining 34.15 ha in next 9 years. But rest of remaining 463.62 ha will be used for open cast which is part of present proposal of ToR. The existing EC dated 11th May, 2015 will be superseded accordingly once PP receives the new EC for present proposal.

43.12.4 *The EAC, after detailed deliberations and duly considering the presence the water bodies and nallah (which are present in the area proposed for OCP), suggested to take appropriate measures for creating space for water storage which is going to be diverted. As, Project proponent has informed that there are 6 nos. of seasonal ponds/tanks consists of 28.3 ha, PP will explore and create 6 nos of pond /tank or same area of water body in the buffer zone (10 km) area of the existing tanks. Also, PP has to divert the nallah flowing over the surface to the existing minor irrigation tank. Loss of grazing land due to OCP may be highlighted and further environment management plan should be included in EIA report.*

The EAC considering above, recommended the Terms of Reference for preparation of EIA/EMP reports with public consultation, subject to compliance of all terms and conditions as specified/notified in the standard ToR applicable for opencast coal mines, along with the additional conditions as under:-

- The ground water permission from Central Ground Water Authority (CGWA) shall be obtained, if applicable.*
- An integrated hydrological study would be carried out of the impact of coal mining on the baseflows in the downstream of the mine area.*
- For proper baseline air quality assessment, adequate monitoring stations (4-5 nos.) in the downwind areas need to be set up and included in the air quality modeling.*
- Ecological restoration and mine reclamation plan to be prepared with afforestation of local/native species found in the area.*
- Wind rose pattern in the area should be reviewed and accordingly location of AAMSQ will be planned by the collection of air quality data*
- Utilization of fly ash in external overburden dumps and backfilling shall be ensured as per the provisions contained in the Fly Ash Notification, 2009, read with subsequent amendments.*
- A certified report on the updated status of compliance of conditions stipulated in the environmental clearance dated 11th May, 2015 from the concerned Regional Office of the MoEF&CC.*

12/03/2019

https://mail.gov.in/iwc_static/layout/shell.html?lang=en&3.0.1.2.0_15121607

Subject: **Fwd: Re: EAC Minutes**
To: Munna Scientist D <munna.shah@gov.in>

Date: 03/12/19 05:39 PM
From: "S.K Srivastava" <sk.smree66@gov.in>

----- Original Message -----

From: **Narmada Shukla** <shuklanp55@gmail.com>
Date: Mar 12, 2019 3:20:32 PM
Subject: Re: EAC Minutes
To: sk.smree66@gov.in

Dear Shrivastava Sahab
As discussed on phone, Draft minutes are appropriate .
Regards
Dr N P Shukla

PARTICIPANTS IN 43rd EXPERT APPRAISAL COMMITTEE (EAC) (THERMAL & COAL MINING) MEETING HELD ON 21st February, 2019 ON COAL SECTOR PROJECTS.

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13.	Shri S. K. Shrivastva	Member Secretary		