

Minutes of the 21st meeting of the EAC held on 27th October, 2017 for appraisal of Coal Mining projects

A. The 21st meeting of the Expert Appraisal Committee (EAC) for Thermal & Coal mining projects was held on 27th October, 2017 in the Ministry to consider the proposals relating to coal mining sector. The lists of participants and the project proponents are at Annexure-I & II respectively.

B. Confirmation of minutes

There being no comments from any of the members of the Committee, minutes of the 19th meeting of the EAC held on 26th September, 2017 were confirmed.

C. 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.21.1

Sayal D Opencast Coal Mine Project of capacity 1.0 MTPA (Normative)/1.35 MTPA (Peak) in a project area of 286.98 ha of M/s Central Coalfields Limited in District Ramgarh (Jharkhand) - For EC

[IA/JH/CMIN/27582/2015, F. No. J-11015/157/2015-IA.II(M)]

21.1.1 The proposal is for environmental clearance to Sayal D Opencast Coal Mine Project of capacity 1.0 MTPA (Normative)/1.35 MTPA (Peak) of M/s Central Coalfields Limited in a project area of 286.98 ha in District Ramgarh, (Jharkhand).

21.1.2 The project proponent vide email dated 23.10.2017 has informed as under:

(i) The project report of Sayal D OCP was approved by CCL Board on 10th October, 2013. The approved project report was prepared for a capacity of 1 MTPA (Normative)/1.35 MTPA (Peak) in a total area of 410.08 ha.

(ii) The project area contains diverted as well as non-diverted forest land and GMK Jungle Jhari. In view of MoEF OM No.J-11015/200/2008-IA.II(M), dated 31st March, 2011 and other related OMs, non-diverted forest land and GMK Jungle Jhari along with adjoining non forest land has been deducted from the project area. The revised area of project envisaged earlier now stand as 286.98 ha.

(iii) The revised Mining Plan and Mine Closure Plan of Sayal D OCP involving an area of 286.98 ha has not yet been approved by the CCL Board. The project proponent has regretted and requested to consider the proposal in the next EAC meeting. .

21.1.3 *The EAC took note of the submissions of the project proponent and deferred the proposal.*

Agenda No.21.2

Expansion of Bhanegaon Opencast Coal mine project from 0.70 MTPA to 1.15 MTPA of M/s Western Coalfields Ltd in an area of 347.46 ha in Tehsil Kamptee, District Nagpur (Maharashtra) - For EC

[IA/MH/CMIN/8951/2004, F.No.J-11015/43/2004-IA.II(M)]

21.2.1 The proposal is for grant of EC to the expansion project of Bhanegaon Opencast Coal mine from 0.70 MTPA to 1.15 MTPA of M/s Western Coalfields Ltd. in an area of 347.46 ha in Tehsil Kamptee, District Nagpur (Maharashtra).

21.2.2 The EAC, while considering the proposal (for expansion from 0.60 MTPA to 1.15 MTPA) in its earlier meeting held on 17-18 March, 2016, recommended for expansion from 0.6 MTPA to 0.7 MTPA only.

While granting EC, the Committee mentioned that further expansion could be considered only after the air quality shows improvement on desired lines and a fresh compliance report from the RO office showing satisfactory compliance of the existing EC conditions is obtained

The project was accordingly granted EC vide J-11015/43/2004-IA.II(M) dated 16th June, 2016 for expansion from 0.6 MTPA to 0.7 MTPA i.e. till FY 2016-17 against the proposed expansion of 1 MTPA (Normative)/1.15 MTPA (Peak).

21.2.3 In response to the observations of EAC, the details submitted by the project proponent and/or as informed during the earlier meeting, are as under:-

(i) The monitoring report on compliance status of EC conditions indicates that air quality levels found to be within the prescribed standards. Monitoring of heavy metals has been carried out and the Heavy Metals levels found to be within the prescribed standards.

(ii) The certificate of compliance against the existing EC conditions issued by Regional Office, MoEF&CC Nagpur vide letter no. F.No.-3-32/2005(Env.) dated 7th September, 2017. The Compliance report has since been submitted to MoEF&CC, New Delhi.

(iii) Action Taken Report against the observations of the RO, MoEF&CC vis-à-vis partially complied conditions has been submitted to them for certification. The same is reproduced as under:-

Condition in EC	Action taken report by PP
Specific Condition No.(xxxviii) Time series land Use pattern maps have been prepared only for the Core Zone. Land Use patterns	In this regard it is submitted that the Mining activities are limited only within the Core Zone area. As such, any changes in Land Use due to the Project Activity occur only in Core Zone as such it is monitored individually for each project.

<p>based on the Satellite imagery are not being prepared for Buffer Zone.</p>	<p>The land use in Buffer Zone is beyond the control of Project Authority. As such, the land use pattern in an integrated manner over the buffer zone area is monitored through satellite for the entire Coalfield, every 3 years.</p> <p>The same for Kamptee Coalfield where the subject project is located has been monitored during 2016 and 2013. A soft copy of each of the aforesaid report is enclosed herewith for ready reference. The same reports have already been uploaded in the Company Website.</p> <p>The Buffer Zone Plan has been prepared and submitted to RO, MoEF&CC, Nagpur through email dated 19.09.2017.</p>
<p>General Condition No.xix</p> <p>The Environmental Statement for the FY 2015-16 submitted to MPCB web portal on 24.09.2016. Copy of Environmental Statement was not uploaded to Company Website.</p>	<p>The same has already been uploaded to company website. The link for the aforesaid is http://westerncoal.nic.in/sites/default/files/userfiles/ENV-CR-BHANEGAON%20OC.pdf</p>

21.2.4 During deliberations on the proposal, the EAC noted the following:-

The original proposal was for environmental clearance to the expansion of Bhanegaon Opencast Coal mine project from 0.60 MTPA to 1.00 MTPA (Normative)/1.15 MTPA (peak) of M/s Western Coalfields Ltd within the existing mine lease area of 347.46 ha in Tehsil Kamptee, District Nagpur, (Maharashtra)

The proposal was considered by the EAC in its 53rd EAC meeting held on 17-18 March 2016, wherein the Committee recommended the project for expansion from 0.6 MTPA to 0.7 MTPA in the mine lease area of 347.46 ha for one year only. The Committee desired that further increase in capacity (up to 1 MTPA normative, & 1.15 MTPA peak) could be considered after one year, and after the air quality shows improvement on desired lines, and a fresh compliance report from the RO office showing satisfactory compliance of the existing EC conditions is obtained.

Based on the recommendations of EAC, the project for expansion from 0.6 MTPA to 0.7 MTPA in mine lease area of 347.46 ha, was granted EC vide letter No.J-11015/43/2004-IA.II(M) dated 16th June, 2016.

Now the present proposal has been submitted by the project proponent for grant of EC to the expansion of Bhanegaon Opencast Coal mine project from 0.70 MTPA to 1.15 MTPA in the same area of 347.46 ha.

The monitoring report on compliance status of the existing EC (dated 16th June, 2016) conditions issued by Regional Office, MoEF&CC, Nagpur vide letter dated 7th September 2017 was found to be satisfactory. Action taken report on each of the partially complied conditions has been submitted to the Regional Office MoEF&CC, Nagpur through email dated 12th & 19th Sept, 2017.

Further, the said monitoring report from the Regional Office also indicates that air quality levels are within the prescribed standards.

CSR activities undertaken covering villages within 25 km radius are Construction, Repair & Maintenance of CC,BT & WBM roads, Laying of pipeline, construction of overhead water tanks for drinking water supply, Financial Assistance to Farmers for Crop productivity, Conducting Medical Camps and medical assistance, Construction of Bridges, Skill Development Programmes

Year	Expenditure Incurred(Rs. Lakhs)
2014-15	201.46
2015-16	76.95
2016-17	2685.51 (including Rs. 2500 lakhs donation for Cancer Hospital)

21.2.5 *Keeping in view the recommendations of the EAC in its 53rd meeting held on 17-18 March, 2016, deliberations on the EC compliance status monitoring report of Regional Office and presentation made by the project proponent during the meeting, the EAC recommended for increase in production capacity of Bhanegaon Opencast Coal Mine project from 0.7 MTPA to 1 MTPA (normative)/1.15 MTPA (peak) of M/s Western Coalfields Ltd in the same area of 347.46 ha in Tehsil Kamptee, District Nagpur (Maharashtra), subject to the terms and conditions as applicable, and the additional conditions as under:-*

- *Standard Operating Procedures are required to be prepared and vetted by the company headquarters for adoption of environmental measures in course of various mining activities right from drilling, blasting to coal dispatch be submitted to EAC for monitoring.*
- *Transportation of coal should be carried out by covered trucks. Mitigative measures to be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient numbers of water sprinklers.*
- *Continuous monitoring of occupational safety and other health hazards, and the corrective actions need to be ensured.*
- *Controlled blasting techniques should be adopted to control ground vibration and fly rocks.*
- *Mitigative measures to be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient numbers of water sprinklers.*
- *Thick green belt of 30-45 m width to be provided 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.*

All other terms and conditions stipulated in the Environmental Clearance dated 16th June, 2016 shall remain unchanged.

Agenda No.21.3

Modernization of Jamadoba Underground Coal Mine of 0.34 MTPA in ML area of 927.17 ha by M/s Tata Steel Limited at Jorapokhar, Pattiya Dungri village, Jharia Tehsil, Dhanbad (Jharkhand)– For TOR

[IA/JH/CMIN/69663/2017, F.No.J-11015/91/2017-IA.II(M)]

21.3.1 The proposal is for Terms of Reference for Modernization of Jamadoba Underground Coal Mine of 0.34 MTPA in ML area of 927.17 ha by M/s Tata Steel Limited at Jorapokhar, Pattiya Dungri village, Jharia Tehsil, Dhanbad (Jharkhand).

21.3.2 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) This is pre-nationalized mine.
- (ii) The latitude and longitude of the project site are :

Point	Latitude	Longitude
1	23 ⁰ 43' 33.24"	86 ⁰ 22' 22.75"
2	23 ⁰ 42' 43.05"	86 ⁰ 24' 08.19"
3	23 ⁰ 41' 09.99"	86 ⁰ 24' 52.43"
4	23 ⁰ 41' 02.65"	86 ⁰ 24' 48.05"
5	23 ⁰ 41' 19.33"	86 ⁰ 23' 15.66"
6	23 ⁰ 41' 49.48"	86 ⁰ 22' 19.02"

- (iii) Joint Venture: No joint venture
- (iv) Coal Linkage : Captive Mine of capacity 0.34 MTPA.
- (v) Employment generated / to be generated: The existing manpower requirement is 644 direct and 368 indirect employees as of Sep'17. It includes all officers, staff & daily rated persons. There is no additional manpower requirement for the proposed modernization project.
- (vi) Benefits of the project: Improvement in physical infrastructure like Road Transport facilities, Housing facilities, Water supply and sanitation, Power, Medical facilities, Community development etc. Improvement in social infrastructure like Trade and Commerce etc. Other tangible benefits like indirect employment opportunities to local people in contractual works like housing construction, transportation, sanitation, for supply of goods and services to the project and other community services. Improvement in communication, transport, education, community development and medical facilities.

(vii) The total land area is 927.17 ha. Mining lease area as per the approved Mining Plan is 927.17 Ha. The land usage of the project will be as follows:

Present Land Use			Assessed Land Use at time of Coal Exhaustion		Envisaged Post Mining Land Use			
Sr. No.	Land Uses	Area in ha	Uses	Area in ha	Agriculture use	Public & other use	Water Bodies	Total
1	Void in Kalimela Area	11.65	Backfilled area for agriculture uses	11.65	11.65	-	-	11.65
2	Waste Dump in Kalimela Area	12.00	Area cleaned for agriculture uses	12.00	12.00	-	-	12.00
3	Washery Area	7.00	Abandoned Washery Area	7.00	7.00	-	-	7.00
4	Land under Infrastructure	10.50	Abandoned Infra Areas (Sub Station, Workshop, Store, F.B.C. Plant)	10.50	10.50	-	-	10.50
5	Land under Pit Areas	1.70	Abandoned Pit Areas	1.70	1.70	-	--	1.70
6	Land for Office Complex & Parks	5.25	Office Complex & Parks	5.25	-	5.25	-	5.25
7	Land under Railway • Indian Railway • TSL Railway	2.85 13.76	Land under Railway • Indian Railway • TSL Acquired	2.85 13.76	13.76	2.85	-	2.85 13.76
8	Roads in Lease Area	9.60	Roads in Lease Area • To be retained • To be removed	6.70 2.90	2.9	6.70	-	6.70 2.90
9	Residential Areas	39.12	Residential Areas • To be retained • To be removed	20.00 19.12	19.12	20.00	-	20.00 19.12
10	Villages	40.00	Villages	40	-	40	-	40
11	Water Bodies	81.26	Water Bodies	81.26	-	-	81.26	81.26
12	Agriculture Areas	692.48	Agriculture Areas	692.48	692.48	-	-	692.48
Total		927.17	Total	927.17	771.11	74.80	81.26	927.17

(viii) The total geological reserve is 51.42MT. The mineable reserve 6.73 MT, extractable reserve is 4.88 MT. The per cent of extraction would be 35%.

- (ix) The coal grade is W-III. The stripping ratio is not applicable. The average Gradient is 1 in 5. There will be four seams namely XV, XIII, XI, IX with thickness ranging from 2.04 m to 8.06 m.
- (x) The total estimated water requirement is 11,100 m³/day. The level of ground water ranges from 1.23– 10.31 m below ground level.
- (xi) The Method of mining would be underground mining (Semi-Mechanised Board and Pillar system).
- (xii) There will be neither external nor internal OB dump.
- (xiii) The life of mine is 15 Years.
- (xiv) Transportation: Coal transportation in pit through underground belt network to washery.
- (xv) There will be no R & R involved.
- (xvi) Cost: Total capital cost of the project is Rs. 13.17 Crores. CSR Cost Rs. 4.77 crores (FY18 budget) for Jharia Division. R&R Cost Nil. Environmental Management Cost Rs. 1.73 crores.
- (xvii) Water body: Damodar River flows along part of South-Western edge of the lease area.
- (xviii) Approvals: Applied for ground water clearance on 22nd March 2017. Board's approval obtained on 13th August 2014. Mine plan including mine closure plan is being prepared and shall be submitted to MoEF&CCC
- (xix) Wildlife issues: There are no national Parks, wildlife sanctuary, biosphere reserves found in the 10 km buffer zone.
- (xx) Forestry issues: There is no forest land involved in the project area.
- (xxi) Afforestation plan: This is an underground mine. Afforestation/ green belt development takes place every year on the open surface within leasehold areas
- (xxii) There are no court cases/violation pending with the project proponent.

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

The proposal is for grant of ToR to modernize of Jamadoba underground coal mine of 0.34 MTPA in ML area of 927.17 ha by M/s Tata Steel Limited at Jorapokhar, Pattiya Dungri village, Jharia Tehsil, Dhanbad (Jharkhand).

Total ML area is 927.17 ha. No forest land involved.

Mine Plan for the project has been submitted to MOC on 25.10.2017.

21.3.4 The EAC, after detailed deliberations, recommended the proposal for grant of ToR to Modernization of Jamadoba underground coal mine of 0.34 MTPA in ML area of 927.17 ha by M/s Tata Steel Limited at Jorapokhar, Pattiya Dungri village, Jharia Tehsil, Dhanbad (Jharkhand), and for preparation of EIA/EMP reports with public consultation subject to compliance of all conditions as specified and notified in the standard ToR applicable for Underground Coal Mines, along with the additional conditions as under:-

- Cumulative impact of all the existing industrial activities in the study area and also those in the pipeline/proposed, shall be studied to arrive at a comprehensive picture and planning of adequate environmental safeguards.
- Detailed subsidence prediction study to be carried out and incorporated in the reports.
- Compensatory afforestation to be done and native trees to be planted/transplanted preferably subject to permission granted by the State Government.
- Impact of the pollution load due to increased traffic on the nearby road network shall be studied.

Agenda No.21.4

Expansion of New Sethia OCP from 0.20 MTPA to 0.50 MTPA of M/s Western Coalfields Limited with increase in mine lease area from 91.503 ha to 144.453 ha located in District Chhindwara (Madhya Pradesh) - For amendment in EC

[IA/MP/CMIN/26250/2012, F.No.J-11015/452/2012-IA.II(M)]

21.4.1 The proposal is for amendment in environmental clearance dated 21st February, 2017 for the expansion of New Sethia OCP from 0.20 MTPA to 0.50 MTPA of M/s Western Coalfields Limited located in District Chhindwara (Madhya Pradesh).

21.4.2 The expansion project of New Sethia Opencast Coal Mine from 0.20 MTPA to 0.50 MTPA of M/s Western Coalfields Limited involving increase in mine lease area from 91.503 ha, to 144.453 ha located in District Chhindwara (Madhya Pradesh), was granted environmental clearance vide letter No. J-11015/452/2012-IA.II(M) dated 21st February, 2017. **The project proponent has now requested for amendment** in the said Environmental Clearance in respect of specific condition and the general conditions with the details as under:-

Specific/General Conditions	Amendment proposed	Reasons/Justification
Specific Condition		
(ix) Of the total quarry area of 74.33 ha, the backfilled quarry area of 21.60 ha shall be reclaimed with plantation and there will be no void left at the end of the mining operations. The land after mining shall be restored for agriculture purpose.	"and there will be no void left at the end of mining operations" needs to be deleted. "The land after mining shall be restored for agricultural purpose" to be deleted	As recorded in the Post Mining land use pattern, there will remain a void of 66.73 ha converted to water body. Further, at the end of mining operations, plantation will be carried out on the backfilled area. Plantation and converting land for agriculture purpose both are not technically feasible as simultaneously actions.
General Conditions		
a) Mining		
(iv) A progressive Mine Closure Plan duly approved by the Ministry of Coal should strictly be complied with.....	A progressive Mine Closure Plan duly approved by the Ministry of Coal / Company Board (as applicable to the project) should strictly be complied with.	Company's Board is authorized to approve Project Report and Mining Plans. Progressive and Final Mine Closure Plans are part of Project Report and Mining Plan. The mine closure returns are submitted to CCO, Kolkata before 30 June, every year.

<p>(b) Land reclamation</p> <p>(iii) Final Mine void depth should not be more than 40m. The void area should be converted into water body. The remaining area should be backfilled upto the ground level and covered with thick meter of top soil. The land after mining should be restored for agricultural use.</p>	<p>Final mine void depth should not be more than 100 m. The mine void shall be proposed to be converted into a water body.</p> <p>"The land after mining should be restored for agricultural use" to be deleted</p>	<p>As recorded in EC, 66.73 ha will remain as void at a depth of 97 m.</p> <p>Now to reduce the depth to 40 m, it requires huge re-handling of OB from the external OB dump. But under specific condition (A) (vii), (viii) & (ix), a progressive afforestation includes plantation on 21.60 ha (7.00 ha in adjacent quarry + 14.60 ha in current quarry) of backfilled area.</p> <p>Estimated Total of 9.88 Mm³ of OB will be generated during entire life mine, which will be backfilled in adjacent quarry and current quarry.</p> <p>In view of the above, it is not possible to backfill the entire void.</p>
<p>(b) Land reclamation</p> <p>(v) Plantation shall be raised in 7.5 m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads etc.by planting the native species in consultation with the local DFO / agriculture Department and as per CPCB Guidelines.....</p>	<p>Plantation shall be raised around the mining lease, on the backfilled and reclaimed area, around water body, along the roads etc. by planting the native species in consultation with the local DFO / agriculture Department and as per CPCB Guidelines.....</p>	<p>Mining is a site specific activity and land is an important & costly commodity.</p> <p>To optimize the resources utilization, only the land with mineral resource and for infrastructure purpose is acquired.</p> <p>Leaving 7.5 m width land around mine lease area for plantation is not viable. This 7.5 m width to maintain, it requires acquisition for rationalization also as such the quantum of land would be significant only for plantation. Therefore, green belt of certain width (2-3 meters) around the lease, on the backfilled and reclaimed area, around water body, along the roads etc will be developed.</p>

<p>(c) Emission, Effluents & Waste Disposal</p> <p>(x)Dimension of the retaining wall to be constructed at the toe of the dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data.</p>	<p>"Dimension of the retaining wall to be constructed at the toe of the dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data", may be deleted or "as applicable to the project" may be added.</p>	<p>General Condition (c) emission, Effluents & Waste Disposal (x), details out all the precautionary measures required for the purpose fulfilling the spirit of condition. Additionally, Construction of retaining wall may not be required. It depends on the site condition.</p>
<p>(e) Occupational Health & Safety</p> <p>(iv) Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical care, health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.</p>	<p>Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical care, health care, creche etc as applicable to the project. The housing may be in the form of temporary structures to be removed after the completion of the project, as applicable to the project.</p>	<p>The requirement is very site specific as such it should be as per its applicability.</p>
<p>(f) Biodiversity</p> <p>(i) The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna, if any spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife department. A copy of</p>	<p>The condition may be modified by adding, "If applicable" or "as applicable to the project".</p>	<p>The clause is site specific as such the conditions needed to be modified.</p>

<p>Action plan shall be submitted to the Ministry of Environment, Forest & Climate Change & its Regional Office.</p>		
<p>(g) Implementation of Action Plan as per public hearing & CSR activities</p> <p>(iv) The project proponent shall make necessary alternative arrangements, where required, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, Project proponent should implement the directions of Hon'ble supreme Court with regard to acquiring grazing land. The sparse trees on such grazing ground, which provide mid day shelter from the scorching sun, should be scrupulously guarded against felling and plantation of such trees should be promoted.</p>	<p>The condition may be modified by adding: "as applicable to the project.</p>	<p>As per the pre-mining land usage pattern, no grazing land was acquired for the said project. Also, the land acquired under Land acquisition Act & CBA Act permits to acquire land bearing coal and for establishment of offices, colonies or infrastructure related to Coal Mining process.</p>
<p>(j) Monitoring of Ambient Air & Water quality and Reporting</p> <p>(i) Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board.....</p>	<p>Monitoring of Ambient Air Quality to be carried out based on the Coal Industry Standards i.e. GSR 742 (E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board.</p>	<p>All existing monitoring is being carried out by NABL/MoEF accredited laboratory as per Coal Industry Standards i.e. GSR 742 (E) dated 25.9.2000</p>
<p>(ii) The proponent shall install Online Ambient Air Quality Monitoring System and there should be system for display AQ data within 03 months at least at three locations as per wind direction.....</p>	<p>"The proponent shall install one Online Ambient Air Quality Monitoring System and there should be system for display AQ data within 03 months as per wind direction".</p>	<p>All existing monitoring is being carried out by CMPDIL, having NABL/NABET accredited laboratory as per GSR 742 (E) The reports of the aforementioned parameters are uploaded on the company's website for each quarter.</p>

21.4.3 The EAC, after deliberations, recommended for amendment in the EC in respect of specific and general conditions to be read now as under:-

Specific Condition

(ix) The land use pattern at the end of mining operation shall be in conformity with the post mining land-use plan, which remains an integral part of the approved mining plan and the EIA/EMP submitted to this Ministry.

General Conditions

a) Mining

(iv) A progressive Mine Closure Plan duly approved by the Ministry of Coal / Company Board, as applicable should strictly be complied with.

(b) Land Reclamation

(iii) Final mine void depth should be in conformity with the post mining land-use plan, which remains an integral part of the approved mining plan and the EIA/EMP submitted to this Ministry.

(v) Plantation shall be raised around the mining lease on the backfilled and reclaimed area, around water body, along the roads etc. by planting the native species in consultation with the local DFO / agriculture Department and as per CPCB Guidelines in conformity with the post mining land-use plan, which remains an integral part of the approved mining plan and the EIA/EMP submitted to this Ministry.

(c) Emission, Effluents & Waste Disposal

(x)Dimension of the retaining wall to be constructed at the toe of the dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data as applicable.

(e) Occupational Health & Safety

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

(f) Biodiversity

(i) The project proponent shall take all precautionary measures during mining operations for conservation and protection of endangered fauna, if any, spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife department. A copy of the Action plan, as applicable, shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office.

(g) Implementation of Action Plan as per public hearing & CSR activities

(iv) The project proponent shall make necessary alternative arrangements, wherever required, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, the project proponent should implement the directions of Hon'ble supreme Court with regard to acquiring grazing land. The sparse trees on such grazing ground, which provide mid day shelter from the scorching sun, should be scrupulously guarded against felling and plantation of such trees should be promoted as applicable.

(j) Monitoring of Ambient Air & Water quality and Reporting

(i) Monitoring of Ambient Air Quality to be carried out based on the Coal Industry Standards notified vide GSR 742 (E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board,.....

(ii) Not agreed. The project proponent was asked to prepare integrated continuous air quality monitoring plan for all their mines operating in the area.

All other terms and conditions stipulated in the Environmental Clearance dated 21st February, 2017 shall remain unchanged.

Agenda No.21.5

Expansion of Naheriya Underground Coal Mine Project from 0.36 MTPA to 0.54 MTPA of M/s Western Coalfields Limited in ML area of 300 ha located in Tehsil Parasia, District Chhindwara (MP)-For Amendment in EC

[IA/MP/CMIN/8645/2001, F.No.J-11015/35/2001-IA.II(M)]

21.5.1 The proposal is for amendment in environmental clearance dated 28th March, 2017 for the expansion of Naheriya Underground Coal Mine Project from 0.36 MTPA to 0.54 MTPA of M/s Western Coalfields Limited located in District Chhindwara (Madhya Pradesh)

21.5.2 The expansion project of Naheriya Underground Coal Mine from 0.36 MTPA to 0.54 MTPA of M/s Western Coalfields Limited in ML area of 300 ha located in Tehsil Parasia, District Chhindwara (MP), was granted environmental clearance by the Ministry vide letter No. J-11015/35/2001-IA.II(M) 28th March, 2017. The project proponent has now requested for amendment in the said Environmental Clearance in respect of general conditions with the details as under:-

Specific/General Conditions	Amendment proposed	Reasons/Justification
General Conditions		
(b) Land reclamation		
(i) Digital processing of the entire lease area using remote sensing technique	The condition may be modified or removed	Naheriya UG is an underground mine and

shall be carried out once in three years for monitoring land use pattern and report submitted to Ministry of Environment, Forest and Climate Change in its Regional Office.		the mining activity is carried out under the ground without disturbing the surface topography.
(ii) Final mine void depth should not be more than 40 m. The void area should be converted into water body. The remaining area should be backfilled up to the ground level and covered with thick top soil. The land after mining should be restored for agriculture or forestry purpose.	The condition may be removed	Naheriya mine is underground mine. Thus, there will be no mine void and no backfilling will be required
(iii) The top soil, if any, shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The top soil shall be used for land reclamation and plantation. The overburden dumps should be vegetated with suitable native species to prevent erosion and surface run off. The entire excavated area shall be backfilled and afforested in line with the Mine Closure Plan.	The condition may be removed	Naheriya is an Underground mine. Thus, be no top soil dumps, overburden dumps and backfilling.
(iv) Green belt should be developed all along the mine lease area in a phased manner. The width of green belt along forest area should not be less than 7.5 m, and the total area covered by 3 tier green belt shall not be less than 100 ha...	Green belt should be developed all along the mine lease area in a phased manner. The width of green belt should not be less than 7.5 m, and the total area covered by 3 tier green belt shall not be less than 9ha.	As per the details submitted by WCL and recorded in the EC letter, total afforestation plan shall be implemented covering an area of 9 ha at the end of mining out of which Green belt covers an area of 2ha.
(c) Emission, Effluents & Waste Disposal		
(iii)Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc carried out at least once in six months	The condition may be removed.	This is an Underground mine, there is no HEMM deployed. All activities except coal transportation by trucks, are carried out below ground.

<p>(iv) Crusher/feeder and breaker material transfer points should invariably be provided with dust suppression system. Belt -conveyors should be fully covered to avoid air borne dust. Drills shall be wet operated or fitted with dust extractors.</p>	<p>Crushers/feeder & breaker material transfer points should invariably be provided with dust suppression system if any as applicable to the project. Belt -conveyors should be fully covered to avoid air borne dust, and drills shall be wet operated or fitted with dust extractors, as applicable.</p>	<p>This is an operating UG mine, coal is extracted below ground through blasting of solids and no crushing is involved. There is no feeder breaker. There is only one belt conveyor & a very small section is exposed on surface. Further, drills are hand held electrically operated, duly approved by DGMS</p>
<p>(v) The project proponent shall not alter the major channels around the site. Appropriate embankment should be provided along the side of river/nallah flowing near or adjacent to the mine. The embankment constructed along river/nallah boundary should be of suitable dimensions and critical patches should be strengthened by stone pitching on the river front side and stabilised with plantation so as to withstand the peak water flow and prevent mine inundation.</p>	<p>The condition may be removed.</p>	<p>This is an operating UG mine. Surface construction is very limited, consisting of mine entries through Inclines, Air shaft for ventilation & buildings/infrastructure made on land acquired under surface rights. Rest of the land is acquired Mining rights only & no other construction is done on the same.</p>
<p>(vii) Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, coal heaps & OB dumps to prevent run off of water and flow of sediments directly into the river and water bodies. The water so collected shall be regularly de-silted particularly after monsoon and maintained properly. Sump capacity should provide adequate retention period to allow proper settling of silt material. Dimension of the retaining wall to be constructed at the toe of the dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data.</p>	<p>The condition may be removed.</p>	<p>Naheriya is an underground mine. There are no OB dumps, thus catch drains, siltation ponds & retaining wall is not required.</p>

<p>(viii) Industrial wastewater (CHP), Workshop and waste water from the mine) should be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents</p>	<p>The condition may be accordingly modified, considering waste water from the mine only.</p>	<p>Naheriya UG is an underground mine and there is no HEMM Workshop. Thus, no effluent is generated.</p>
<p>(d) Noise & vibration Control</p> <p>(i) Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs</p>	<p>"Adequate measures shall be taken for Control of noise levels below 85 db (A) in the work environment. Workers exposed to noisy environment shall be provided with ear plugs/muffs.</p>	<p>It is a Underground mine and no HEMM is deployed. Moreover, drilling is carried out by hand held drill machines & blasting is at very small scale.</p>
<p>(ii) Controlled blasting techniques should be practiced with use of delay detonators to mitigate ground vibrations and fly rocks.</p>	<p>The condition may be removed.</p>	<p>This is an Underground mine & blasting scale is meagre and carried out below ground. As such, question of fly rocks etc does not arise.</p>
<p>(f) Biodiversity</p> <p>(i) The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna, if any spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife department. A copy of Action plan shall be submitted to the Ministry of Environment, Forest & Climate Change & its Regional Office.</p>	<p>The condition may be modified by adding, "If applicable" or "as applicable to the project"</p>	<p>This is an Underground mine. Forest land has been acquired only under Mining right. All mining operations are carried out below ground. As such, no specific action plan is required.</p>

21.5.3 The EAC, after deliberations, recommended for amendment in the EC in respect of specific and general conditions to be read now as under:

General Conditions

(b) Land Reclamation

(i) Deleted

(ii) Deleted

(iii) Deleted

(iv) Green belt should be developed in conformity with the post mining land-use plan, which remains an integral part of the approved mining plan and the EIA/EMP submitted to this Ministry.

(c) Emission, Effluents & Waste Disposal

(iii) Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants namely, PM₁₀, PM_{2.5}, SO₂ and NO_x. Locations of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board.

(iv) Crushers/feeder and breaker material transfer points should be provided with dust suppression system, if any. Belt -conveyors should be fully covered to avoid air borne dust and drills shall be wet operated or fitted with dust extractors, as applicable.

(v) Deleted

(vii) Deleted

(viii) Industrial wastewater (CHP), workshop if any, and waste water from the mine should be properly collected and treated to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.

(d) Noise & vibration Control

(i) Adequate measures shall be taken for control of noise levels below 85 dB (A) in the work environment. Workers exposed to noisy environment shall be provided with ear plugs/muffs.

(ii) Deleted

(f) Biodiversity

(i) The project proponent shall take all precautionary measures during mining operations for conservation and protection of endangered fauna, if any, spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State

Forest and Wildlife Department. A copy of the Action plan, as applicable shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office.

All other terms and conditions stipulated in the Environmental Clearance dated 28th March, 2017 shall remain unchanged.

Agenda No.21.6

Expansion of New Majri UG to OC Coal Mine from 0.8 MTPA to 1.2 MTPA of M/s Western Coalfields Limited in an area 479.16 ha in District Chandrapur (Maharashtra)- For amendment in EC

[IA/MH/CMIN/8127/2008, F.No.J-11015/25/2008-IA.II(M)]

21.6.1 The proposal is for amendment in environmental clearance dated 13th February, 2017 for the expansion of New Majri UG to OC Coal Mine Project from 0.80 MTPA to 1.20 MTPA of M/s Western Coalfields Limited located in District Chandrapur (Maharashtra)

21.6.2 The expansion project of New Majri UG to OC Coal Mine from 0.8 MTPA to 1.2 MTPA of M/s Western Coalfields Limited in an area 479.16 ha in District Chandrapur (Maharashtra) was granted environmental clearance by the Ministry vide letter No. J-11015/25/2008-IA.II(M) dated 13th February, 2017. The project proponent has now requested for amendment in the said Environmental Clearance in respect of the specific and the general conditions with the details as under:-

Specific/General Conditions	Amendment proposed	Reasons/Justification
Specific Condition		
(ix) Of the total quarry area of 74.35 ha (on floor) & 114.35 ha (on surface), the backfilled quarry area of Nil ha shall be reclaimed with plantation and there will be no void be left at the end of the mining operations. The land after mining shall be restored for agriculture purpose.	the backfilled quarry area of Nil ha shall be reclaimed with plantation and there will be no void left at the end of mining operations" needs to be deleted. "The land after mining shall be restored for agricultural purpose" to be deleted	As recorded in the Post Mining land use pattern, at the end of mining operations and as per specific conditions (vii), (viii) & (ix), there is no backfilling or internal dump and there will remain a void of 114.35 ha, no plantation will be developed on the backfilled area. In view of above, backfilling of void, Plantation & converting land for agriculture purpose is not technically feasible.

General Conditions		
<p>a) Mining</p> <p>(iv) A progressive Mine Closure Plan duly approved by the Ministry of Coal should strictly be complied with.....</p>	<p>A progressive Mine Closure Plan duly approved by the Ministry of Coal / Company Board (as applicable to the project) should strictly be complied with.....</p>	<p>Company's Board is authorized to approve Project Report & Mining Plans. Progressive and Final Mine Closure Plans are part of Project Report & Mining Plan. The Mine closure returns are submitted to CCO, Kolkata before 30th June, and every year.</p>
<p>(b) Land reclamation</p> <p>(iii) Final Mine void depth should not be more than 40m. The void area should be converted into water body. The remaining area should be backfilled upto the ground level and covered with a thick meter of top soil. The land after mining should be restored for agricultural use.</p>	<p>Final mine void depth should not be more than 90m. The mine void shall be proposed to be converted into a water body.</p> <p>The land after mining should be restored for agricultural use" to be deleted</p>	<p>As recorded in EC based on our presentation, 114.35 ha will remain as a void at a maximum depth of 90 m. As per geo mining conditions of the project, backfilling is not proposed.</p> <p>In view of above, it is not possible to fill the void and restored for agricultural use.</p>
<p>(iv)The entire excavated area shall be backfilled and afforested in line with the approved Mine Closure Plan.....</p>	<p>"The entire excavated area shall be backfilled and afforested in line with the approved Mine Closure Plan" needs to be deleted.</p>	<p>As recorded in EC based on our presentation, 114.35 ha will remain as a void at a maximum depth of 90 m. As per geo mining conditions of the project, backfilling is not proposed.</p>
<p>(v) Plantation shall be raised in 7.5 m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads etc.by planting the native species in consultation with the local DFO / agriculture Department and as per CPCB Guidelines.....</p>	<p>Plantation shall be raised around the mining lease, on the backfilled and reclaimed area, around water body, along the roads etc. by planting the native species in consultation with the</p>	<p>Mining is a site specific activity and land is an important & costly commodity.</p> <p>To optimize the resources utilization, only the land with mineral resource and for infrastructure purpose is</p>

	local DFO/agriculture Department and as per CPCB Guidelines.....	acquired. Leaving 7.5 m width land around mine lease area for plantation is not viable. This 7.5 m width to maintain, it requires acquisition for rationalization also as such the quantum of land would be significant only for plantation. Therefore, green belt of certain width (2 – 3 meters) around the lease, on the backfilled and reclaimed area, around water body, along the roads etc will be developed.
<p>(c) Emission, Effluents & Waste Disposal</p> <p>(x)Dimension of the retaining wall to be constructed at the toe of the dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data.</p>	"Dimension of the retaining wall to be constructed at the toe of the dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data", may be deleted or as applicable to the project may be added.	General Condition (c) emission, Effluents & Waste Disposal (x), details out all the precautionary measures required for the purpose fulfilling the spirit of condition. Additionally, Construction of retaining wall may not be required. It depends on the site condition.
<p>(e) Occupational Health & Safety</p> <p>(iv) Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical care, health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.</p>	Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical care, health care, crèche etc as	The requirement is very site specific as such it should be as per its applicability.

	applicable to the project. The housing may be in the form of temporary structures to be removed after the completion of the project, as applicable to the project.	
(f) Biodiversity		
(i) The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna, if any spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife department.....	The condition may be modified by adding, "If applicable" or "as applicable to the project"	The clause is site specific as such the conditions needed to be modified.
(j) Monitoring of Ambient Air & Water quality and Reporting		
(i) Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board.....	Monitoring of Ambient Air Quality to be carried out based on the Coal Industry Standards i.e. GSR 742 (E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board.	All existing monitoring is being carried out by NABL/MoEF accredited laboratory as per Coal Industry Standards i.e. GSR 742 (E) dated 25.9.2000
(ii) The proponent shall install Online Ambient Air Quality Monitoring System and there should be system for display AQ data within 03 months at least at three locations as per wind direction.....	"The proponent shall install one Online Ambient Air Quality Monitoring System and there should be system for display AQ data within 3 months as per wind direction".	All existing monitoring is being carried out by CMPDIL, having NABL/NABET accredited laboratory as per GSR 742 (E) The reports of the aforementioned parameters are uploaded on the company's website for each quarter.

21.6.3 The EAC, after deliberations, recommended for amendment in the EC in respect of the specific and the general conditions to be read now as under:

Specific Condition No.(ix)

(ix) The land use pattern at the end of mining operations shall be in conformity with the post mining land-use plan, which remains an integral part of the approved mining plan and the EIA/EMP submitted to this Ministry.

General Conditions

(a) Mining

(iv) A progressive Mine Closure Plan duly approved by the Ministry of Coal/Company Board, should strictly be complied with.

(b) Land Reclamation

(iii) Final Mine void shall be in conformity with the post mining land-use plan, which remains an integral part of the approved mining plan and the EIA/EMP submitted to this Ministry.

(iv) The entire excavated area and backfilling and afforestation plan shall be in conformity with the post mining land-use plan, which remains an integral part of the approved mining plan and the EIA/EMP submitted to this Ministry.

(v) Plantation shall be raised around the mining lease on the backfilled and reclaimed area, around water body, along the roads etc. by planting the native species in consultation with the local DFO / agriculture Department and as per CPCB Guidelines in conformity with the post mining land-use plan, which remains an integral part of the approved mining plan and the EIA/EMP submitted to this Ministry.

(c) Emission, Effluents & Waste Disposal

(x)Dimensions of the retaining wall to be constructed at the toe of the dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data as applicable.

(e) Occupational Health & Safety

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

(f) Biodiversity

(i) The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna, if any, spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State

Forest and Wildlife Department. A copy of the Action plan shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office.

(j) Monitoring of Ambient Air & Water quality and Reporting

(i) Monitoring of Ambient Air Quality to be carried out based on the Coal Industry Standards notified vide GSR 742 (E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board,.....

(ii) Not agreed. The project proponent were asked to prepare integrated continuous air quality monitoring plan for all their mines operating in the area.

All other terms and conditions stipulated in the environmental clearance dated 13th February, 2017 shall remain unchanged.

Agenda No.21.7

Expansion of Gokul OCP from 1.0 MTPA to 1.875 MTPA in an area of 756.92 ha of M/s Western Coalfields Limited located in District Nagpur (Maharashtra)- For Amendment in EC

[IA/MH/CMIN/7059/2010, F.No.J-11015/1001/2007-IA.II(M)]

21.7.1 The proposal is for amendment in environmental clearance dated 13th February, 2017 for the expansion of Gokul OCP from 1.00 MTPA to 1.875 MTPA of M/s Western Coalfields Limited located in District Nagpur (Maharashtra)

21.7.2The expansion project of Gokul OCP from 1.0 MTPA to 1.875 MTPA of M/s Western Coalfields Limited in an area of 756.92 ha located in District Nagpur (Maharashtra) was granted environmental clearance by the Ministry vide letter No. J-11015/25/2008-IA.II(M) dated 13th February, 2017. The project proponent has now requested for amendment in the said Environmental Clearance in respect of the specific and the general conditions with the details as under:-

Specific/General Conditions	Amendment proposed	Reasons/Justification
Specific Condition		
(ix) Of the total quarry area of 231.73 ha (on floor) & 291.21 ha (on surface), the backfilled quarry area of 115.39 ha shall be reclaimed with plantation and there will be no void be left at the end of the mining operations. The land after mining shall be restored for agriculture purpose.	"and there will be no void left at the end of mining operations" needs to be deleted. "The land after mining shall be restored for agricultural purpose"	As recorded in the "Post Mining" land use pattern, at the end of mining operations, there will remain a void of 175.82 ha. Further, as recorded in the Post Mining land use pattern at the end of the mining operations, plantation

		will be developed on the backfilled area. During the same time, simultaneously developing Plantation & converting land for agriculture purpose is not technically feasible.
General Conditions		
a) Mining		
(iv) A progressive Mine Closure Plan duly approved by the Ministry of Coal should strictly be complied with.....	Modification requested: A progressive Mine Closure Plan duly approved by the company Board / Ministry of Coal (as applicable to the project) should strictly be complied with.	The Mine closure returns are submitted to CCO, Kolkata before 30th June, every year.
(b) Land Reclamation		
(iii) Final Mine void depth should not be more than 40m. The void area should be converted into water body. The remaining area should be backfilled upto the ground level and covered with a thick metre of top soil. The land after mining should be restored for agricultural use.	Final mine void depth should not be more than 100m. The mine void shall be proposed to be converted into a water body. The land after mining should be restored for agricultural use" to be deleted	As recorded in EC based on our presentation, 175.82 ha will remain as a void at a depth of 100 m. Now to reduce the depth to 40 m, it requires huge rehandling of OB from the external OB dump. But under specific condition (A) (vii), a progressive afforestation includes plantation on 123.9 ha of OB dump (as recorded in Post Mining Land Use pattern). During the same time, simultaneously developing Plantation & converting land for agriculture purpose is not technically feasible.
(c) Emission, Effluents & Waste Disposal		
(x)Dimension of the retaining	"Dimension of the retaining	General Condition (c)

<p>wall to be constructed at the toe of the dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data.</p>	<p>wall to be constructed at the toe of the dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data", may be deleted or as applicable to the project may be added.</p>	<p>emission, Effluents & Waste Disposal (x), details out all the precautionary measures required for the purpose fulfilling the spirit of condition. Additionally, Construction of retaining wall may not be required. It depends on the site condition.</p>
<p>(e) Occupational Health & Safety</p> <p>(iv) Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical care, health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.</p>	<p>The condition may be modified as: Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical care, health care, creche etc as applicable to the project. The housing may be in the form of temporary structures to be removed after the completion of the project, as applicable to the project.</p>	
<p>(f) Biodiversity</p> <p>(i)The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna, if any spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife department. A copy of Action plan shall be submitted to the Ministry of Environment, Forest & Climate Change & its Regional Office.</p>	<p>The condition may be modified by adding, "If applicable" or "as applicable to the project"</p>	

<p>(g) Implementation of Action Plan as per public Hearing & CSR activities</p> <p>(iv)The Project proponent shall make necessary alternative arrangements, where required, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, Project proponent should implement the directions of Hon'ble supreme Court with regard to acquiring grazing land. The sparse trees on such grazing ground, which provide mid day shelter from the scorching sun, should be scrupulously guarded against felling and plantation of such trees should be promoted.</p>	<p>The condition may be modified by adding : "as applicable to the project.</p>	<p>As per the pre-mining land usage pattern, no grazing land was acquired for the said project. Also, the land acquired under Land acquisition Act & CBA Act permits to acquire land bearing coal and for establishment of offices, colonies or infrastructure related to Coal Mining process.</p>
<p>(j) Monitoring of Ambient Air & Water quality and Reporting</p> <p>(i) Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board.....</p>	<p>Monitoring of Ambient Air Quality to be carried out based on the GSR 742 (E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board.</p>	<p>All existing monitoring is being carried out by CMPDIL, having NABL/NABET accredited laboratory as per GSR 742 (E)</p>
<p>(ii) The proponent shall install Online Ambient Air Quality Monitoring System and there should be system for display AQ data within 03 months at least at three locations as per wind direction.....</p>	<p>The proponent shall install Online Ambient Air Quality Monitoring System and there should be system for display AQ data within 03 months as per wind direction.</p>	<p>All existing monitoring is being carried out by CMPDIL, having NABL/NABET accredited laboratory as per GSR 742 (E) The reports of the aforementioned parameters are uploaded on the company's website for each quarter.</p>

21.7.3 The EAC, after deliberations, recommended for amendment in the EC in respect of the specific and the general conditions to be read now as under:

Specific Condition

(ix) Of the total quarry area of 231.73 ha (on floor) & 291.21 ha (on surface), the backfilled quarry area of 115.39 ha shall be in conformity with the post mining land-use plan, which remains an integral part of the approved mining plan and the EIA/EMP submitted to this Ministry.

General Conditions

b) Mining

(iv) A progressive Mine Closure Plan duly approved by the Ministry of Coal / Company Board as applicable should strictly be complied with.

(b) Land Reclamation

iii) Final Mine void depth should be in conformity with the post mining land-use plan, which remains an integral part of the approved mining plan and the EIA/EMP submitted to this Ministry.

(c) Emission, Effluents & Waste Disposal

(x)Dimension of the retaining wall to be constructed at the toe of the dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data as applicable.

(e) Occupational Health & Safety

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

(f) Biodiversity

(i) The project proponent shall take all precautionary measures during mining operations for conservation and protection of endangered fauna, if any, spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. A copy of the Action plan as applicable shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office.

(g) Implementation of Action Plan as per public hearing & CSR activities

(iv) The project proponent shall make necessary alternative arrangements, wherever required, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court for acquiring grazing land. The sparse trees on such grazing ground, which provide mid day shelter

from the scorching sun, should be scrupulously guarded against felling and plantation of such trees should be promoted, as applicable.

(j) Monitoring of Ambient Air & Water quality and Reporting

(i) Monitoring of Ambient Air Quality to be carried out based on the Coal Industry Standards notified vide GSR 742 (E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board,.....

(ii) Not agreed. The project proponent were asked to prepare integrated continuous air quality monitoring plan for all their mines operating in the area.

All other terms and conditions stipulated in the Environmental clearance dated 13th February, 2017 shall remain unchanged.

Agenda No.21.8

Expansion of Ghonsa OCP of capacity 0.60 MTPA of M/s Western Coalfields Ltd with increase in land area from 128.79 ha to 278.683 ha located in District Yavatmal (Maharashtra)- For amendment in EC

[IA/MH/CMIN/61865/2010, F.No.J-11015/165/2009-IA.II(M)]

21.8.1 The proposal is for amendment in environmental clearance dated 8th June, 2017 for the expansion of Ghonsa OCP of capacity 0.60 MTPA with increase in land area from 128.79 ha to 278.683 ha located in District Yavatmal (Maharashtra).

21.8.2 The expansion project of Ghonsa OCP of capacity 0.60 MTPA of M/s Western Coalfields Ltd with increase in land area from 128.79 ha to 278.683 ha located in District Yavatmal (Maharashtra) was granted environmental clearance by the Ministry vide letter No. J-11015/165/2009-IA.II(M) dated 8th June, 2017. The project proponent has now requested for amendment in the said Environmental Clearance in respect of the specific and the general conditions with the details as under:-

Specific/General Conditions	Amendment proposed	Reasons/Justification
Specific Condition		
(ix) Of the total quarry area of 135.12 ha, the backfilled quarry area of 80 ha shall be reclaimed with plantation and a void of 46.84 ha with maximum depth of 75 m is proposed to be converted into a water body and	“and there will be no void left at the end of mining operations” needs to be deleted.	As recorded in the post mining land use pattern, there will remain a void of 66.73 ha converted to water body. Further, at the end of mining operations,

<p>shall be gently sloped and the upper benches shall be terraced and stabilized with plantation / afforestation by planting native plant species in consultation with the local DFO / Agriculture Department. The density of the trees shall be around 2500 plants per ha.</p>		<p>plantation will be carried out on the backfilled area. Plantation and converting land for agriculture purpose both are not technically feasible as simultaneous action.</p>
<p>General Conditions</p>		
<p>(b) Land reclamation</p> <p>(ii) Final Mine void depth should not be more than 40m. The void area should be converted into water body. The remaining area should be backfilled upto the ground level and covered with a thick meter of top soil. The land after mining should be restored for agricultural use.</p>	<p>Final mine void depth should not be more than 75 m. The mine void shall be proposed to be converted into a water body.</p> <p>The land after mining should be restored for agricultural use " to be deleted</p>	<p>As recorded in EC, 46.84 ha will remain as void at a maximum depth of 75 m. Now to reduce the depth to 40 m, it requires huge re-handling of OB from the external OB dump. But under specific condition (A) (vii), (viii) & (ix), a progressive afforestation of 134.36 ha includes plantation on External OB dump area of 29.35 ha , internal OB dump area of 80.00 ha backfilled area, 20 ha green belt and 5.01 ha along infrastructure, roads and in plain land. Estimated Total of 29.12 Mm³ of OB will be generated during entire life mine, out of which 3.27 Mm³ of OB will be dumped in one external OB Dump and 25.85 Mm³ will be backfilled in internally in the current quarry. In view of the above, it is not possible to backfill the entire void during the mine life.</p>
<p>(c) Emission, Effluents & Waste Disposal</p> <p>(vii)Dimension of the retaining wall to be constructed</p>	<p>"Dimension of the retaining wall to be</p>	<p>General Condition (c) emission, Effluents & Waste Disposal (vii), details out all the</p>

<p>at the toe of the dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data.</p>	<p>constructed at the toe of the dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data", may be deleted or as applicable to the project may be added.</p>	<p>precautionary measures required for the purpose fulfilling the spirit of condition. Additionally, Construction of retaining wall may not be required. It depends on the site condition.</p>
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21.8.3 The EAC, after deliberations, recommended for amendment in the EC in respect of the specific and the general conditions to be read now as under:

Specific Condition

(ix) Of the total quarry area of 135.12 ha, the backfilled quarry area of 80 ha reclaimed with plantation and a void of 46.84 ha with maximum depth of 75 m shall be in conformity with the post mining land-use plan, which remains an integral part of the approved mining plan and the EIA/EMP submitted to this Ministry.

General Conditions

(b) Land reclamation

(iii) Final Mine void depth of 75m shall be in conformity with the post mining land-use plan, which remains an integral part of the approved mining plan and the EIA/EMP submitted to this Ministry.

(c) Emission, Effluents & Waste Disposal

(vii)Dimension of the retaining wall to be constructed at the toe of the dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data as applicable.

All other terms and conditions stipulated in the environmental clearance dated 8th June, 2017 shall remain unchanged.

Agenda No. 21.9

Cluster no. 1 group of 11 mines project of expansion (from 2.70 MTPA (Normative) to 3.30 MTPA (Peak) in an ML area of 3692 ha of M/s Eastern Coalfields Limited, located at dist. Dhanbad, (Jharkhand) - For amendment in EC

[IA/JH/CMIN/9519/2011, F.No.J-11015/78/2011-IA.II(M)]

21.9.1 The proposal is for amendment in Environmental clearance of Cluster No.1 (group of 11 mines) project of capacity 2.70 MTPA (Normative)/3.30 MTPA (Peak) in mine lease area of 3692 ha of M/s Eastern Coalfields Limited, located in District Dhanbad(Jharkhand)

21.9.2 The project of Cluster No.1 (group of 11 mines) of capacity 2.70 MTPA (Normative)/3.30 MTPA (Peak) in mine lease area of 3692 ha of M/s Eastern Coalfields Limited, located at District Dhanbad (Jharkhand) was granted environmental clearance vide letter No.J-11015/78/2011-IA.II(M) dated 16th January, 2015. The project proponent has now requested for amendment in the said EC due to restructuring in individual mines of cluster, with the details as under:-

As per the existing EC

S. No.	Name of the Mine	Type	Lease Area (Ha)	Peak Production Capacity (MTY)	Life (Years)
1	Hariajam UG	UG	316.00	0.14	> 25
2	Badjna UG	UG	676.00	0.10	> 25
3	Chapapur-II UG	UG & OC	480.00	0.20	> 25
	Chapapur OC Patch			0.86	1
4	Khoodia UG	UG & OC	186.00	0.10	> 25
	Khoodia OC Patch			0.10	1
5	Lakhimata UG	UG & OC	217.00	0.10	> 25
	Lakhimata OC Patch			0.40	8
6	Shampur-B UG	UG & OC	368.00	0.10	> 25
	Shampur-B (Sangamahal) OC Patch			0.20	3
7	Mandman UG	UG	345.00	0.10	> 25
8	Nirsha OC Patch	OC	147.00	0.10	11
9	Shampur-A UG	UG & OC	491.00	0.10	> 25
	Shampur-A OC Patch			0.12	2
10	Gopinathpur UG	UG & OC	157.00	0.07	> 25
	Gopinathpur OC Patch			0.13	5
11	Kapasara UG	UG & OC	309.00	0.15	> 25
	Kapasara OC Patch			0.23	5
	Total		3692	3.30	

As proposed:

SI No.	Name of the Mine	Type	Lease Area (Ha)	Proposed EC Capacity (MTY)	Revised Life (Years)
1	Hariajam UG	UG	316.00	0.10	>25
2	Badjna UG	UG	676.00	0.15	>25
3	Chapapur-II UG	UG & OC	480.00	0.75	>25
	Chapapur OC Patch				
4	Khoodia UG	UG & OC	186.00	0.05	>25
	Khoodia OC Patch				
5	Lakhimata UG	UG & OC	217.00	0.95	20
	Lakhimata OC Patch				
6	Shampur-B UG	UG & OC	368.00	0.10	>25
	Shampur-B (Sangamahal) OC Patch				
7	Mandman UG	UG	345.00	Amalgamated with Lakhimata OC (Sl. No. 5)	-
8	Nirsha OC Patch	OC	147.00	0.40	8
9	Shampur-A UG	UG & OC	491.00	0.20	8
	Shampur-A OC Patch				
10	Gopinathpur UG	UG & OC	157.00	0.20	>25
	Gopinathpur OC Patch				
11	Kapasara UG	UG & OC	309.00	0.40	>25
	Kapasara OC Patch				
	Total		3692	3.30	

It was informed by the project proponent that the Mining Plan was duly revised on the above lines and subsequently approved by the Board of M/s Eastern Coalfields Ltd.

21.9.3 *The EAC, after deliberations, recommended for amendment in the EC in respect of restructuring of individual mines explained above, with the total production capacity and the mine lease area remaining the same. All other terms and conditions stipulated in the environmental clearance dated 16th January, 2015 shall remain unchanged.*

Agenda No.21.10

Cluster III of 7 mines of peak production of 3.6 MTPA in combined ML area of 1420.61 ha of M/s Bharat Coking Coal Ltd located in Jharia Coalfields, District Dhanbad (Jharkhand) -For amendment in EC

[IA/JH/CMIN/7874/2010, F.No.J-11015/213/2010-IA.II(M)]

21.10.1 The proposal is for amendment in environmental clearance of Cluster III of 7 mines of peak production of 3.6 MTPA in combined ML area of 1420.61 ha of M/s Bharat Coking Coal Ltd located in Jharia Coalfields, District Dhanbad (Jharkhand).

21.10.2 The project was granted environmental clearance by the Ministry vide letter No.J-11015/213/2010-IA.II(M) dated 6th February, 2013. The project proponent has now requested for amendment in the EC in respect of capacities of individual mines in the cluster and lease hold areas due to different reasons, with the details as under:-

S I N O.	As per Existing EC						Modification sought					
	Name of the Mine	Type of Mine	Normative Production Capacity (MTY)	Peak Production Capacity (MTY)	Lease Area (Ha)	Mine Life (Years)	S I N O.	Name of the Mine	Proposed Production Capacity (MTY)	Lease Hold Area (Ha)	Life (Years)	Proposed Amendment / New Proposal
		UG/O C							Peak			
1	Jogidih Colliery	UG	0.244	0.317	167	30	1	Jogidih Colliery UG	0.317	167	30	-
2	Maheshpur Colliery	UG	0.07	0.091	292.68	30	2	Maheshpur Colliery Mixed	1.24	292.68	30	Excavation of unstable area identified under Master Plan
3	South Govindpur Colliery (Closed)	UG	0	0	182	-	3	South Govindpur UG Colliery (Closed)	0	182	--	Non-Producing
4	Teturiya Colliery (Closed)	UG	0	0	123	-	4	Teturiya UG Colliery (Closed)	0	123	--	Non-Producing
5	Govindpur Colliery	UG	0.14	0.182	159.55	30	5	Amalgamated Block IV Govindpur Colliery Mixed Mine	1.65	347.38	11	Amalgamation of Govindpur Colliery and Block IV Mixed Mine
6	Block-IV/Kooridih Mixed Mine	OC	1.1	1.43	149	11			0.12		30	
7	New Akashkinaree Mixed mine	OC	1	1.3		347.38	11	6	New Akashkinaree Mixed mine	1.3	308.55	9
		UG	0.135	0.176	30		30					
TOTAL			2.769	3.60	1420.61		TOTAL	3.60*	1420.61			

*Peak of Cluster will remain same, as peak of individual will be achieved in different years.

It has been informed that there will be no change in the peak production capacity of 3.60 MTPA and the total area of 1420.61 ha of the cluster III (Group of 7 mixed mines).

21.10.3 The EAC, after deliberations, deferred the proposal for want of the Mining Plan for the cluster, revised on the above lines and duly approved by the Ministry of Coal/Board of M/s BCCL.

Agenda No.21.11

Cluster V (7 mines of a 4.854 (Normative) and 6.311 (Peak) production of MTPA in a combined ML area of 1957.08 ha) of M/s Bharat Coking Coal Ltd., located in Jharia Coalfields, Dist. Dhanbad (Jharkhand)- For amendment in EC

[IA/JH/CMIN/6990/2011, F.No.J-11015/01/2011-IA.II(M)]

21.11.1 The proposal is for amendment in environmental clearance dated 11th February, 2013 for the Cluster V (7 mines of a 4.854 (Normative) and 6.311 (Peak) production of MTPA in a combined ML area of 1957.08 ha) of M/s Bharat Coking Coal Ltd., located in Jharia Coalfields, Dist. Dhanbad (Jharkhand).

21.11.2 The project was granted environmental clearance by the Ministry vide letter No. J-11015/01/2011-IA.II(M) dated 11th February, 2013. The project proponent has now requested for amendment in the EC in respect of capacities of individual mines in the cluster and the lease hold areas due to different reasons, with the details as under:-

S. No.	Name of the Mine	As per Existing EC				Modification sought	
		Normative Production Capacity (MTY)	Peak Production Capacity (MTY)	Lease Area (Ha)	Mine Life (Year s)	Proposed Amendment / New Proposal	Peak Production Capacity (MTY)
1	Nichitpur OC Mine	0.6	0.78	150	10	Increase in production	1.3
2	Tetulmari Colliery (consisting of open cast and underground mine)	0.795	1.033	317	>30	Increase in production for fire dealing	1.7
3	Mudidih Colliery(consisting of open cast and underground mine)	1.553	2.019	378.05	>30	Increase in production	2.88
4	Sendra Bansjora OC Mine	0.75	0.975	249.63	23	Increase in production for fire dealing	2.34
5	Kankanee OC Mine	0.48	0.624	258.12	>30	Increase in production for fire dealing	1.19
6	Bansdeopur OC Mine	0.676	0.879	104.72	>30	Operating within limits	0.52
7	Loyabad UG Mine (closed for coal production)	0	0	499.56	--	Master Plan under implementation	0
Total		4.854	6.31	1957.08	33		

It has been informed that there will be no change in the peak production capacity of 6.31 MTPA and the total area of 1957.08 ha of the cluster V (Group of 7 mixed mines).

21.11.3 The EAC, after deliberations, deferred the proposal for want of the Mining Plan for the cluster, revised on the above lines and duly approved by the Ministry of Coal/Board of M/s BCCL.

Agenda No.21.12

Cluster VIII Group of 10 mines (Combined Capacity 4.31 MTPA with a peak production of 5.603 MTPA) in a combined ML area of 1183.92 ha (1200.41 ha-16.49 ha = 1183.92 ha) of M/s Bharat Coking Coal Limited located in Jharia coalfields, District Dhanbad (Jharkhand) - For amendment in EC

[IA/JH/CMIN/17129/2010, F.No.J-11015/298/2010-IA.II(M)]

21.12.1 The proposal is for amendment in environmental clearance dated 15th February, 2013 for the Cluster VIII Group of 10 mines (Combined Capacity 4.31 MTPA with a peak production of 5.603 MTPA) in a combined ML area of 1183.92 ha (1200.41 ha-16.49 ha = 1183.92 ha) of M/s Bharat Coking Coal Limited located in Jharia coalfields District Dhanbad (Jharkhand).

21.12.2 The project was granted environmental clearance by the Ministry vide letter No. J-11015/298/2010-IA.II(M) dated 15th February, 2013. The project proponent has now requested for amendment in the EC in respect of capacities of individual mines in the cluster and lease hold areas due to different reasons , with the details as under:-

S. No.	As per Existing EC						Modification sought		
	Name of the Mine	Type of Mine	Normative Production Capacity (MTY)	Peak Production Capacity (MTY)	Lease Area (Ha)	Mine Life (Years)	Proposed Amendment / New Proposal	Proposed Production Capacity (Peak) (MTY)	Mine Life (Years)
		UG/OC							
1	Bastacolla Colliery	OC	0.10	0.130	239.45	3	-	0.13	15
		UG	0.33	0.429		18	-	0.24	21
2	Bera Colliery	OCP	0.15	0.195	209.56	3	-	0.20	10
		UG	0.19	0.247		13	-	0.00	-
3	Dobari Colliery	UG	0.24	0.312	146.90	20	Excavation of unstable area identified under Master Plan	3.86	6
4	Ghanoodih Colliery	OC	1.40	1.820	73.00	5	-	0.60	5
	Kuya Colliery	UG	0.10	0.130	340.50	20	Composite OC as Kuya Colliery	2.60	15
		OC	0.60	0.780		5			
	Goluckdih (NC)	OC	1.20	1.560		25			
6	Kujama Colliery	OC	0.60	0.780	191.00	5	-	0.78	7
	Total			5.603	1200.41			5.603*	

*Peak of Cluster will remain same, as peak of individual will be achieved in different years.

It has been informed that there will be no change in the peak production capacity of 5.603 MTPA and the total area of 1200.41 ha of the cluster VIII (Group of 10 mixed mines).

21.12.3 The EAC, after deliberations, deferred the proposal for want of the Mining Plan for the cluster, revised on the above lines and duly approved by the Ministry of Coal/Board of M/s BCCL.

Agenda No.21.13

Cluster X (6 mines of 1.762 MTPA of normative and peak production of 2.289 MTPA in a combined ML area of 2057.95 ha) and Sudamdih Coal Washery (Within the lease hold of Sudamdih Shaft Mine) of 1.6 MTPA of normative and 2.08 MTPA peak production for a area of 18 ha of M/s Bharat Coking Coal Ltd, located in Jharia Coalfields, District Dhanbad (Jharkhand)- For amendment in EC

[IA/JH/CMIN/8812/2010, F.No.J-11015/380/2010-IA.II(M)]

21.13.1 The proposal is for amendment in environmental clearance dated 6th February, 2013 for the Cluster X (6 mines of 1.762 MTPA of normative and peak production of 2.289 MTPA in a combined ML area of 2057.95 ha) and Sudamdih Coal Washery (Within the lease hold of Sudamdih Shaft Mine) of 1,6 MTPA of normative and 2,08 MTPA peak production for a area of 18 ha of M/s Bharat Coking Coal Ltd., located in Jharia Coalfields, Dist. Dhanbad (Jharkhand).

21.13.2The project was granted environmental clearance by the Ministry vide letter No. J-11015/380/2010-IA.II(M) dated 6th February, 2013. The project proponent has now requested for amendment in the EC in respect of capacities of individual mines in the cluster and lease hold areas due to different reasons, with the details as under:-

S. No.	As per Existing EC					Modification sought						
	Name of the Mine	Normative Production Capacity (MTY)	Peak Production Capacity (MTY)	Lease Area (Ha)	Mine Life (Years)	SI No.	Name of the Mine	Type of Mine UG/O C	Proposed Production Capacity (MTY) (PEAK)	Lease Hold Area (Ha)	Life (Years)	Proposed Amendment / New Proposal
1	Bhowrah North OC & UG	0.42	0.546	208.83	4	1	Bhowrah North	OC	0.35	208.83	6	-
		0.11	0.143		30			UG	0.03		>20	-
2	Bhowrah South (UG)	0.29	0.377	571.58	30	2	Bhowrah South (UG)	UG	0.03	571.58	>8	-
	3 Pit OCP	0.235	0.305		4.5		3 Pit OCP/4A	OC	0.65		8	Increase in Production
	Chandan OCP(Bhowrah)	0.158	0.205		2.5		Chandan (Bhowrah)	OC	0.52		8	Increase in Production
3	Patherdih (UG)	0.054	0.07	244.34	30	3	Amalgamated Sudamdih Patherdih Mine	OC	0.709	498.61	12	Amalgamation of mines for fire dealing
	Chandan OCP (Patherdih)	0.22	0.286		4							

4	Sudamdi h Incline (UG)	0.09	0.117	254.27	30							
5	Sudamdi h Shaft (UG)	0.185	0.24	391.5	30	4	Sudamdi h Shaft (UG) (Closed)	UG	0.24	391.5	30	-
6	Amlabadi (UG) Closed	0	0	386.95		5	Amlabadi (UG) (Closed)	UG	0	386.95	NA	-
	TOTAL	1.762	2.289	2057.47			TOTAL		2.289	2057.47		
7	Sudamdi h Coal Washery (Within the lease hold of Sudamdi h Shaft Mine)	1.6	2.08	18	18	6	Sudamdi h Coal Washery (Within the lease hold of Sudamdi h Shaft Mine)	Washery	2.08	18	18	

It has been informed that there will be no change in the peak production capacity of 2.289 MTPA and the total area of 2057.47 ha of the cluster X (Group of 6 mixed mines).

21.13.3 The EAC, after deliberations, deferred the proposal for want of the Mining Plan for the cluster, revised on the above lines and duly approved by the Ministry of Coal/Board of M/s BCCL.

Agenda No.21.14

EC to Cluster XI group of mines (5.08 MTPA with a peak capacity of 6.604 MTPA) in a combined ML area of 3447.14 ha (3527.58 ha - 80.44 ha of forest land = 3447.14 ha) and Moonidih Washery (1.6 MTPA peak capacity) of M/s Bharat Coking Coal Limited, located in Jharia Coalfields, District Dhanbad (Jharkhand)- For amendment in EC

[IA/JH/CMIN/9513/2011, F.No.J-11015/77/2011-IA.II(M)]

21.14.1 The proposal is for amendment in environmental clearance dated 26th August, 2013 for the Cluster XI group of mines (5.08 MTPA with a peak capacity of 6.604 MTPA) in a combined ML area of 3447.14 ha (3527.58 ha - 80.44 ha of forest land = 3447.14 ha) and Moonidih Washery (1.6 MTPA peak capacity) of M/s Bharat Coking Coal Limited, located in Jharia Coalfields, dist. Dhanbad (Jharkhand)

21.14.2 The project was granted environmental clearance by the Ministry vide letter No. J-11015/77/2011-IA.II(M) dated 26th August, 2013. The project proponent has now requested for amendment in the EC in respect of capacities of individual mines in the cluster and the respective lease hold areas due to different reasons, with the details as under:-

S. No.	As per Existing EC					Modification sought		
	Name of the Mine	Normative Production Capacity (MTY)	Peak Production Capacity (MTY)	Lease Area (Ha)	Mine Life (Years)	Proposed Amendment / New Proposal	Peak Production Capacity (MTY)	Mine Life (Years)
1	Gopalichak UG Project	0.11	0.143	241.94	30	Excavation of fiery coal under Jharia Master Plan	0.65	> 25
2	Kachi Balihari 10/12 Pit UG Mine	0.09	0.117	60	19	-	0.117	9
3	PB Project UG	0.8	1.04	89	30	-	1.04	> 30
4	Bhagabandh UG Mine	0.08	0.104	581.17	10	-	0.104	5
5	Kendwadih UG Mine (Closed)	0	0	217.54	0	Excavation of fiery coal under Jharia Master Plan	0.26	>25
6	Pootkee UG Mine (Closed)	0	0	153.77	0	Master Plan under implementation	Nil	--
7	Kachi Balihari 5/6 Pit UG Mine (Closed)	0	0	120.71	0	Master Plan under implementation	Nil	--
8	Moonidih UG Mine	4.0	5.2	2063.45	50	-	5.2	>50
Total			6.604	3527.58			6.604	
9	Moonidih Washery	1.60	1.60	25.6 (within Moonidih Lease).	18		1.6	--

It has been informed that there will be no change in the peak production of coal capacity of 6.604 MTPA and the total area of 3527.58 ha of the cluster XI (Group of 9 mixed mines).

21.14.3 The EAC, after deliberations, deferred the proposal for want of the Mining Plan for the cluster, revised on the above lines and duly approved by the Ministry of Coal/Board of M/s BCCL.

Agenda No. 21.15

Manikpur Opencast expansion project from 3.50 MTPA to 5.25 MTPA in an area of 1018.925 ha of M/s South Eastern Coalfields Limited located at Tehsil & District Korba (Chhattisgarh)- For amendment in TOR

[IA/CG/CMIN/67108/2017, F.No.J-11015/1129/2007-IA.II(M)]

21.15.1 The proposal is for amendment in the ToR for Manikpur Opencast expansion project from 3.50 MTPA to 5.25 MTPA in an area of 1018.925 ha of M/s South Eastern Coalfields Limited located at Tehsil & District Korba (Chhattisgarh)

21.15.2 The ToR for the project was granted vide letter No.J-11015/1129/2007-IA.II(M) dated 11th September, 2017 for preparation of EIA/EMP report along with the public hearing. The project proponent has now requested for amendment in the said ToR in respect of public hearing and wildlife conservation plan with the details as under:-

S. No.	Page/ Point No.	Point as written in ToR	Correction/Amendment requested in the ToR	Comments
1.	Pg no. 4; point no. 6	Based on the recommendations of the EAC, the MoEFCC hereby accords Term of Reference to the expansion of Manikpur Open cast coal mine project from 3.50 MTPA to 5.25 MTPA in an area of 1018.925 Ha of M/s SECL located at Tehsil and District Korba (CG) for preparation of EIA/EMP reports with Public consultation subject to the scope of work as defined in the standard ToR.	As the proposal has been applied under clause 7ii of EIA notification 2006, the EAC is kindly requested to exempt the proposal from public consultation which has been given in the ToR granted.	As the expansion is by 50%, the project falls under the ambit of clause 7ii of EIA notification 2006.
2	Pg no. 4; point no. 6	Wildlife Conservation Plan to be prepared and submitted to the concerned authority for obtaining the necessary approval, if any.	As per submission by Project Proponent on pg no. 3; point xx, Wild life Management plan has been approved by PCCF (Wildlife), Raipur on 24.11.2010 with the budgetary provision of Rs 5 Crores.	Wildlife Conservation plan has already been prepared and approved. In this connection, a demand note no. 7150 dated 28.09.2011 raised by Forest Dept and Rs 5.00 Crores was deposited in CAMPA fund on 18.01.2012.

The project proponent, in support of their proposal, further informed as under:-

(i) As the expansion is by 50%, the project falls under the ambit of clause 7ii of EIA notification 2006, public hearing has been exempted.

(ii) Wild life Management plan has been approved by PCCF (Wildlife), Raipur on 24th November, 2010 with the budgetary provision of Rs 5 Crores. Hence, once again preparation of the wild life conservation plan is not required.

21.15.3 *The EAC, after deliberations, was not agreed to the request for exemption from public hearing for preparation of EIA/EMP reports. In case of Wildlife Conservation Plan reported to be already prepared and approved, there would be no fresh requirement for the same.*

Agenda No.21.16

Jagannath OCP Expansion Project from 6.0 MTPA to 7.5 MTPA along with increase in ML area from 430.736 ha to 553.946 ha of M/s Mahanadi Coalfields Limited located in District Angul (Odisha) - For amendment in ToR

[IA/OR/CMIN/57703/2016, F.No.J-11015/177/2005-IA.II(M)]

21.16.1 The proposal is for amendment in ToR of Jagannath OCP Expansion Project from 6.0 MTPA to 7.5 MTPA along with increase in ML area from 430.736 ha to 553.946 ha of M/s Mahanadi Coalfields Limited located in District Angul (Odisha).

21.16.2 The ToR for the project was granted to the project vide letter No. J-11015/177/2005-IA.II(M) dated 16th August, 2017 for preparation of EIA/EMP report along with the public hearing. Now the project proponent has requested for exemption from Public Hearing, claiming that the Public hearing for the additional land of 123.210 ha (presently a part of the adjoining Bharatpur OCP of 20 MTPA in an area of 1324.80 ha) was earlier conducted by the SPCB on 15th January, 2007.

21.16.3 During deliberations, the EAC noted that an area of 123.21 ha is proposed to be carved out of the existing/nearby Bharatpur OCP of 20 MTPA having a total area of 1324.80 ha. That is to be amalgamated with the Jagannath OCP (present area 430.736 ha) seeking ToR for its expansion from 6 MTPA to 7.5 MTPA. It was informed that while considering the expansion project of Bharatpur OCP from 15 MTPA to 20 MTPA, public hearing was conducted on 15th January, 2007, and based on that, the project was granted EC on 31st October, 2008.

21.16.4 *The EAC, after deliberations and in the spirit of this Ministry's OM dated 15th September, 2017, recommended for amendment in the ToR for preparation of EIA/EMP report providing exemption from the public hearing. All other terms and conditions stipulated in the ToR dated 16th August, 2017 shall remain unchanged. The Committee further pointed out that the proposed reduction in mine lease area of Bharatpur OCP by 123.21 ha would lead to revision in its Mining Plan and asked the project proponent to apply for amendment in the EC of Bharatpur OCP accordingly.*

Agenda No.21.17

2.5 MTPA Coal Washery in an area of 9.85 ha of M/s Paras Power & Coal Beneficiation Ltd at Ghutku Village, Tehsil Takhatpur, District Bilaspur District (Chhattisgarh)-For amendment in TOR

[IA/CG/CMIN/50773/2017, F.No.J-11015/70/2016-IA.II(M)]

21.17.1The proposal is for amendment in ToR of 2.5 MTPA Coal Washery in an area of 9.85 ha of M/s Paras Power & Coal Beneficiation Ltd at Ghutku Village, Tehsil Takhatpur, District Bilaspur District (Chhattisgarh)

21.17.2The ToR for the project was granted vide letter No.J-11015/70/2016-IA.II(M) dated 6th June, 2016. The project proponent has requested for correction in Land area due to typographical mistake from their side i.e 24.36 acres (9.85 ha) instead of 24.26 acres (9.81 ha). PP further submitted that they have reduced the land area from 24.26 acres (9.81 ha) to 19.77 acres (8 ha). Therefore, requested for amendment in ToR with respect to land area.

21.17.3*The EAC, after deliberations, recommended for amendment in the ToR in respect of the washery area now reduced to 19.77 acres from that mentioned as 24.36 acres in the said ToR. All other terms and conditions stipulated in the ToR dated 6th June, 2016 shall remain unchanged.*

Agenda No. 21.18

Cluster XVII Kalyaneshwari OCP and Kalyaneshwari Washery Project (4 MTPA Normative and 5.20 MTPA Peak in an ML area 1459.10 ha to 1844.09 ha of M/s Bharat Coking Coal Ltd located at District Burdwan (West Bengal)- For extension of ToR validity

[IA/WB/CMIN/20226/2013, F.No.J-11015/373/2013-IA.II(M)]

21.18.1 The proposal is for extension of validity of ToR dated 21st May, 2014 for Cluster XVII Kalyaneshwari OCP of capacity 4 MTPA (Normative)/5.20 MTPA (Peak) and Kalyaneshwari Washery in a total area of 1844.09 ha of M/s Bharat Coking Coal Ltd located in District Burdwan (West Bengal).

21.18.2 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 ToR for the Cluster XVII Kalyaneshwari OCP of capacity 4 MTPA (Normative)/5.20(Peak) in mine lease area 1459.10 ha and Kalyaneshwari Washery Project of 3.65 MTPA in 15.66 ha of M/s Bharat Coking Coal Ltd located in District Burdwan (West Bengal) was granted EC vide letter no. J-11015/373/2013-IA.II(M) dated 21st May, 2014,

(ii) The draft EIA/EMP could not be submitted in time for Public Consultation as baseline environmental data generation and project report preparation was delayed. Extension of ToR was applied on 26.04.2016. Extension of TOR is required for submission of Draft EMP to SPCB for Public Consultation.

21.18.3 During deliberations, the EAC noted that the ToR dated 21st May, 2014 was initially valid for a period of 2 years, which was auto-extended up to 21st May, 2017 as per the provisions of this Ministry's OM dated 7th October, 2014. Now the instant proposal is for extending validity of the ToR for a further period of one year i.e. up to 21st May 2018. The committee found the request of the project proponent in conformity with this Ministry's OMs dated 7th October, 2014 & 29th August, 2017.

21.18.4 *In view of the extant provisions facilitating extension of ToR validity beyond 3 years, and the submissions made by the project proponent in this regard, the EAC recommended for extension of validity of ToR for a further period of one year i.e. up to 21st May 2018 with all terms and conditions remaining unchanged.*

Agenda No. 21. 19

Discussion on any other item.

PARTICIPANTS IN 21st EXPERT APPRAISAL COMMITTEE (EAC) (THERMAL & COAL MINING) MEETING HELD ON 27th OCTOBER 2017 ON COAL SECTOR PROJECTS.

Sl. No.	List of Participants Expert Appraisal Committee EAC (Coal Mining)	
1.	Dr. Navin Chandra	Chairman
2.	Dr. Narmada Prasad Shukla	Member
3.	Shri N.Mohan Karnat	Member
4.	Dr. Sharadchchandra Lele	Member
5.	Dr. Jai Krishna Pandey	Member
6.	Dr. Manjari Srivastava	Member
7.	Dr. Gururaj P. Kundargi	Member
8.	Shri S D Vora	Member
9.	Dr. S.K.Paliwal	Member
10.	Prof Om Prakash	Member
11.	Dr. R.K.Giri	Member
12.	Shri S. K. Shrivastva	Member Secretary

PARTICIPANTS IN 21st EXPERT APPRAISAL COMMITTEE (EAC) (THERMAL & COAL MINING) MEETING HELD ON 27th OCTOBER 2017 ON COAL SECTOR PROJECTS.

21.1 Sayal D OCP of M/s Central Coalfields Limited.

Deferred

21.3 Modernization of UG Mine M/s Tata Steel Limited.

1. Shri N.K. Gupta
2. Shri Satish Singh
3. Shri Sachindra Singh
4. Shri M.K.Bangia
5. Shri Apoorva Shukla

21.2 Exp. Bhanegaon OCP of M/S Western Coalfields Limited.

21.4 New Sethia OCP of M/S Western Coalfields Limited.

21.5 Naheriya UG Mine of M/S Western Coalfields Limited.

21.6 New Majri UG to OC of M/S Western Coalfields Limited.

21.7 Gokul OCP of M/S Western Coalfields Limited.

21.8 Ghonsha OCP of M/S Western Coalfields Limited.

1. Shri Pavan Kumar
2. Shri Rajesh Ral
3. Shri R M Wanare
4. Shri K. Chakravarty
5. Shri S.C.Shankar
6. Md. Noor Uddin
7. Shri V.K.Nagda

21.9 Cluster no 1 (group of 11 mines) M/S Eastern Coalfields Limited

1. Shri K.S.Saho
2. Shri B.N.Prasad
3. Shri S.K.Sinha
4. Shri A.Shekhar
5. Shri S.Kundu
6. Md. A.K.Singh
7. Shri S.Chakraborty

21.10 Cluster III of M/S Bharat Coking Coal Limited

21.11 Cluster V of M/S Bharat Coking Coal Limited

21.12 Cluster VIII of M/S Bharat Coking Coal Limited

21.13 Cluster X of M/S Bharat Coking Coal Limited

21.14 Cluster XI of M/S Bharat Coking Coal Limited

21.18 Cluster XVII of M/S Bharat Coking Coal Limited

1. Shri D.Gangopadhyay
2. Shri A Prasad
3. Shri Evr.Raju
4. Shri Kumar Ranjeev
5. Shri A R Mishra
6. Md. Amartanshu Shrivastava
7. Shri S.K.Jha
8. Shri R.K.Sinha
9. Shri Kumar Vaibhav

21.15 Manikpur OCP of M/S South Eastern Coalfields Limited

1. Shri P.K.Sinha
2. Shri Subodh Shrivasta
3. Shri A.S.Bapat
4. Shri I.D.Narayan
5. Shri Praqveen Shrivastava
6. Shir I.J.Singh
7. Miss Yamini Singh
8. Shri S.K.Tripathi
9. Shri H.K.Gour

21.16 Jagannath OCP of M/S Mahanadi Coalfields Limited

1. Shri O.P.Singh
2. Shri A.K.Samantaray
3. Shri C.Jagadev
4. Shri R.C.Sahoo
5. Shri U.K.Mohanty
6. Shir B.G.Roy

21.17 Coal Washery of M/S Paras Power & Coal

1. Shri K.K.Jain
2. Shri M Janardhan
3. Shri Prashant Jain

21.19 Discussion on any other item

Generic ToR for coal washery

- i. Siting of washery is critical considering to its environmental impacts. Preference should be given to the site located at pit head; in case such a site is not available, the site should be as close to the pit head as possible and coal should be transported from mine to the washery preferably through closed conveyer belt to avoid air pollution.
- ii. The washery shall not be located in eco-sensitive zones areas.
- iii. The washery should have a closed system and zero discharge. The storm drainage should be treated in settling ponds before discharging into rivers/streams/water bodies.
- iv. A thick Green belt of about 50 m width should be developed surrounding the washery.
- v. A brief description of the plant alongwith a layout, the specific technology used and the source of coal should be provided.
- vi. The EIA-EMP Report should cover the impacts and management plan for the project of the capacity for which EC is sought and the impacts of specific activities, including the technology used and coal used, on the environment of the area (within 10km radius), and the environmental quality of air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts for the rated capacity. Cumulative impacts for air and water should be a part of EIA in case coal mine, TPP and other washeries are located within 10km radius. The EIA should also include mitigative measures needed to minimize adverse environmental impacts.
- vii. A Study Area Map of the core zone as well as the 10km area of buffer zone showing major industries/mines and other polluting sources should be submitted. These maps shall also indicate the migratory corridors of fauna, if any and areas of endangered fauna; plants of medicinal and economic importance; any ecologically sensitive areas within the 10 km buffer zone; the shortest distance from the National Park/WL Sanctuary Tiger Reserve, etc. alongwith the comments of the Chief Wildlife Warden of the State Govt.
- viii. Data of one-season (non-monsoon) primary- base-line data on environmental quality of air (PM₁₀, PM_{2.5}, SO_x and NO_x, noise, water (surface and groundwater), soil be submitted.
- ix. The wet washery should generally utilize mine water only. In case mine water is not available, the option of storage of rain water and its use should be examined. Use of surface water and ground water should be avoided.
- x. Detailed water balance should be provided. The break-up of water requirement as per different activities in the mining operations vis-a-vis washery should be given. If the source of water is from surface water and/or ground water, the same may be justified besides obtaining approval of the Competent Authority for its drawl.
- xi. The entire sequence of mineral production, transportation, handling, transfer and storage of mineral and waste, if any, and their impacts on air quality should be shown in a flow chart with specific points where fugitive emissions can arise and specific pollution control/mitigative measures proposed to be put in place. The washed coal and rejects should be transport by train as far as possible. Road transport of washed coal and rejects should generally be avoided. In case, the TPP is within 10km radius, it should be through conveyer belt. If transport by rail is not feasible because of the topography of the area, the option for transport by road be examined in detail and its impacts along with the mitigation measures should be clearly brought out in EIA/EMP report.
- xii. Details of various facilities proposed to be provided in terms of parking, rest areas, canteen etc. to the personnel involved in mineral transportation, workshop and

- effluents/pollution load from these activities should be provided.
- xiii. Impacts of CHP, if any, on air and water quality should also be spelt out alongwith Action Plan.
 - xiv. O.M.no.J-II013/25/2014-IA.I dated 11th August, 2014 to be followed with regard to CSR activities.
 - xv. Details of Public Hearing, Notice(s) issued in newspapers, proceedings/minutes of Public Hearing, points raised by the general public and response/commitments made by the proponent along with the Action Plan and budgetary provisions be submitted in tabular form. If the Public Hearing is in the regional language, an authenticated English translation of the same should be provided. Status of any litigations/ court cases filed/pending, if any, against the project should be mentioned in EIA.
 - xvi. Analysis of samples indicating the following be submitted:
 - Characteristics of coal prior to washing (this includes grade of coal, other characteristics of ash, S and heavy levels of metals such as Hg, As, Pb, Cr etc).
 - Characteristics and quantum of coal after washing.
 - Characteristics and quantum of coal rejects.
 - xvii. Details of management/disposal/use of coal rejects should be provided. The rejects should be used in TPP located close to the washery as far as possible. If TPP is within a reasonable distance (10 km), transportation should be by conveyor belt. If it is far away, the transportation should be by rail as far as possible.
 - xviii. Copies of MOU/Agreement with linkages (for stand-alone washery) for the capacity for which EC is being sought should be submitted.
 - xix. Corporate Environment Responsibility:
 - a) The Company must have a well laid down Environment Policy approved by the Board of Directors.
 - b) The Environment Policy must prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
 - c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions must be furnished.
 - d) To have proper checks and balances, the company should have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.
 - xx. A detailed action Plan for Corporate Social Responsibility for the project affected people and people living in and around the project area should be provided.
 - xxi. Permission of drawl of water shall be pre-requisite for consideration of EC.
 - xxii. Wastewater /effluent should confirm to the effluent standards as prescribed under Environment (Protection) Act, 1986
 - xxiii. Details of washed coal, middling and rejects along with the MoU with the end-users should be submitted.

GENERIC TOR FOR AN OPENCAST COALMINE PROJECT for EC

- (i) An EIA-EMP Report shall be prepared for..... MTPA rated capacity in an ML/project area of.....ha based on the generic structure specified in Appendix III of the EIA Notification, 2006.
- (ii) An EIA-EMP Report would be prepared for..... MTPA rated capacity to cover the impacts and environment management plan for the project specific activities on the environment of the region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modeling for..... MTPA of coal production based on approved project/Mining Plan for.....MTPA. Baseline data collection can be for any season (three months) except monsoon.
- (iii) A toposheet specifying locations of the State, District and Project site should be provided.
- (iv) A Study area map of the core zone (project area) and 10 km area of the buffer zone (1: 50,000 scale) clearly delineating the major topographical features such as the land use, surface drainage pattern including rivers/streams/nullahs/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries/mines and other polluting sources. In case of ecologically sensitive areas such as Biosphere Reserves/National Parks/WL Sanctuaries/ Elephant Reserves, forests (Reserved/Protected), migratory corridors of fauna, and areas where endangered fauna and plants of medicinal and economic importance found in the 15 km study area should be given.
- (v) Land use map (1: 50,000 scale) based on a recent satellite imagery of the study area may also be provided with explanatory note on the land use.
- (vi) Map showing the core zone delineating the agricultural land (irrigated and un-irrigated, uncultivable land as defined in the revenue records, forest areas (as per records), along with other physical features such as water bodies, etc should be furnished.
- (vii) A contour map showing the area drainage of the core zone and 25 km of the study area (where the water courses of the core zone ultimately join the major rivers/streams outside the lease/project area) should also be clearly indicated in the separate map.
- (viii) A detailed Site plan of the mine showing the proposed break-up of the land for mining operations such as the quarry area, OB dumps, green belt, safety zone, buildings, infrastructure, CHP, ETP, Stockyard, township/colony (within and adjacent to the ML), undisturbed area -if any, and landscape features such as existing roads, drains/natural water bodies to be left undisturbed along with any natural drainage adjoining the lease /project areas, and modification of thereof in terms of construction of embankments/bunds, proposed diversion/re-channelling of the water courses, etc., approach roads, major haul roads, etc should be indicated.
- (ix) In case of any proposed diversion of nallah/canal/river, the proposed route of diversion /modification of drainage and their realignment, construction of embankment etc. should also be shown on the map as per the approval of Irrigation and flood control Department of the concerned state.
- (x) Similarly if the project involves diversion of any road/railway line passing through the ML/project area, the proposed route of diversion and its realignment should be shown in the map along with the status of the approval of the competent authority.
- (xi) Break up of lease/project area as per different land uses and their stage of acquisition should be provided.

LANDUSE DETAILS FOR OPENCAST PROJECT should be given as per the following table:

Sl. No.	Landuse	Within ML area (ha)	Outside ML area (ha)	Total
1.	Agricultural land			
2.	Forest land			
3.	Wasteland			
4.	Grazing land			
5.	Surface water bodies			
6.	Settlements			
7.	Others (specify)			
	TOTAL			

- (xii) Break-up of lease/project area as per mining plan should be provided.
- (xiii) Impact of changes in the land use due to the project if the land is predominantly agricultural land/forestland/grazing land, should be provided.
- (xiii) One-season (other than monsoon) primary baseline data on environmental quality - air (PM₁₀, PM_{2.5}, SO_x, NO_x and heavy metals such as Hg, Pb, Cr, As, etc), noise, water (surface and groundwater), soil - along with one-season met data coinciding with the same season for AAQ collection period should be provided.
- (xiv) Map (1: 50, 000 scale) of the study area (core and buffer zone) showing the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources, should be provided. The number and location of the sampling stations in both core and buffer zones should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non-polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground water and surface water as per ISI standards and CPCB classification wherever applicable. Observed values should be provided along with the specified standards.
- (xv) Study on the existing flora and fauna in the study area (10km) should be carried out by an institution of relevant discipline. The list of flora and fauna duly authenticated separately for the core and study area and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna should be given. If the study area has endangered flora and fauna, or if the area is occasionally visited or used as a habitat by Schedule-I species, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan along with the appropriate budgetary provision should be prepared and submitted with EIA-EMP Report; and comments/observation from the CWLW of the State Govt. should also be obtained and furnished.
- (xvi) Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and sections should be included. The Progressive mine development and Conceptual Final Mine Closure Plan should also be shown in figures. Details of mine plan and mine closure plan approval of Competent Authority should be furnished for green field and

expansion projects.

- (xvii) Details of mining methods, technology, equipment to be used, etc., rationale for selection of specified technology and equipment proposed to be used vis-à-vis the potential impacts should be provided.
- (xviii) Impact of mining on hydrology, modification of natural drainage, diversion and channeling of the existing rivers/water courses flowing through the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.
- (xix) Detailed water balance should be provided. The break-up of water requirement for the various mine operations should be given separately.
- (xx) Source of water for use in mine, sanction of the Competent Authority in the State Govt. and impacts vis-à-vis the competing users in the upstream and downstream of the project site. should be given.
- (xxi) Impact of mining and water abstraction from the mine on the hydrogeology and groundwater regime within the core zone and 10 km buffer zone including long-term monitoring measures should be provided. Details of rainwater harvesting and measures for recharge of groundwater should be reflected in case there is a declining trend of groundwater availability and/or if the area falls within dark/grey zone.
- (xxii) Impact of blasting, noise and vibrations should be given.
- (xxiii) Impacts of mining on the AAQ and predictions based on modeling using the ISCST-3 (Revised) or latest model should be provided.
- (xxiv) Impacts of mineral transportation within the mining area and outside the lease/project along with flow-chart indicating the specific areas generating fugitive emissions should be provided. Impacts of transportation, handling, transfer of mineral and waste on air quality, generation of effluents from workshop etc, management plan for maintenance of HEMM and other machinery/equipment should be given. Details of various facilities such as rest areas and canteen for workers and effluents/pollution load emanating from these activities should also be provided.
- (xxiv) Effort be made to reduce/eliminate road transport of coal inside and outside mine and for mechanized loading of coal through CHP/ Silo into wagons and trucks/tippers.
- (xxv) Details of waste OB and topsoil generated as per the approved calendar programme, and their management shown in figures as well explanatory notes tables giving progressive development and mine closure plan, green belt development, backfilling programme and conceptual post mining land use should be given. OB dump heights and terracing based on slope stability studies with a max of 28° angle as the ultimate slope should be given. Sections of final dumps (both longitudinal and cross section) with relation to the adjacent area should be shown.
- (xxvi) Efforts be made for maximising progressive internal dumping of O.B., sequential mining , external dump on coal bearing area and later rehandling into the mine void.--to reduce land degradation.
- (xxvii) Impact of change in land use due to mining operations and plan for restoration of the mined area to its original land use should be provided.
- (xxviii) Progressive Green belt and ecological restoration /afforestation plan (both in text, figures and in the tabular form as per the format of MOEFCC given below) and selection of species (native) based on original survey/land-use should be given.

Table 1: Stage-wise Landuse and Reclamation Area (ha)

S.N.	Land use Category	Present (1 st Year)	5 th Year	10 th Year	20 th Year	24 th Year (end of mine life)*
1.	Backfilled Area(Reclaimed with plantation)					
2.	Excavated Area (not reclaimed)/void					
3.	External OB dump Reclaimed with plantation)					
4.	Reclaimed Top soil dump					
5.	Green Built Area					
6.	Undisturbed area (brought under plantation)					
7.	Roads (avenue plantation)					
8.	Area around buildings and Infrastructure					
	TOTAL					

* As a representative example

Table 2 : Stage Wise Cumulative Plantation

S.N.	YEAR*	Green Belt		External Dump		Backfilled Area		Others(Undisturbed Area/etc)		TOTAL	
1.	1 st year										
2.	3 rd year										
3.	5 th year										
4.	10 th year										
5.	15 th year										
6.	20 th year										
7.	25 th year										
8.	30 th year										
9.	34 th year(end of mine life)										
10.	34- 37 th Year (Post-mining)										

* As a representative example

(xxix) Conceptual Final Mine Closure Plan and post mining land use and restoration of land/habitat to the pre- mining status should be provided. A Plan for the ecological restoration of the mined out area and post mining land use should be prepared with detailed cost provisions. Impact and management of wastes and issues of re-handling (wherever applicable) and backfilling and progressive mine closure and reclamation should be furnished.

Table 3: Post-Mining Landuse Pattern of ML/Project Area (ha)

S.N.	Land use during Mining	Land Use (ha)				
		Plantation	Water Body	Public Use	Undisturbed	TOTAL
1.	External OB Dump					
2.	Top soil Dump					
3.	Excavation					
4.	Roads					
5.	Built up area					
6.	Green Belt					
7.	Undisturbed Area					
	TOTAL					110

- (xxx) Flow chart of water balance should be provided. Treatment of effluents from workshop, township, domestic wastewater, mine water discharge, etc. should be provided. Details of STP in colony and ETP in mine should be given. Recycling of water to the max. possible extent should be done.
- (xxxi) Occupational health issues. Baseline data on the health of the population in the impact zone and measures for occupational health and safety of the personnel and manpower in the mine should be given.
- (xxxii) Risk Assessment and Disaster Preparedness and Management Plan should be provided.
- (xxxiii) Integration of the Env. Management Plan with measures for minimizing use of natural resources - water, land, energy, etc. should be carried out.
- (xxxiv) Cost of EMP (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.
- (xxxv) Details of R&R. Detailed project specific R&R Plan with data on the existing socio-economic status of the population (including tribals, SC/ST, BPL families) found in the study area and broad plan for resettlement of the displaced population, site for the resettlement colony, alternate livelihood concerns/employment for the displaced people, civic and housing amenities being offered, etc and costs along with the schedule of the implementation of the R&R Plan should be given.
- (xxxvi) CSR Plan along with details of villages and specific budgetary provisions (capital and recurring) for specific activities over the life of the project should be given.
- (xxxvii) Corporate Environment Responsibility:
- a) The Company must have a well laid down Environment Policy approved by the Board of Directors.

- b) The Environment Policy must prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
 - c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions must be furnished.
 - d) To have proper checks and balances, the company should have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.
- (xxxviii) Details on Public Hearing should cover the information relating to notices issued in the newspaper, proceedings/minutes of Public Hearing, the points raised by the general public and commitments made by the proponent and the action proposed with budgets in suitable time frame. These details should be presented in a tabular form. If the Public Hearing is in the regional language, an authenticated English Translation of the same should be provided.
- (xxxix) In built mechanism of self-monitoring of compliance of environmental regulations should be indicated.
- (xl) Status of any litigations/ court cases filed/pending on the project should be provided.
 - (xli) Submission of sample test analysis of Characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, S and heavy metals including levels of Hg, As, Pb, Cr etc.
 - (xlii) Copy of clearances/approvals such as Forestry clearances, Mining Plan Approval, mine closer plan approval. NOC from Flood and Irrigation Dept. (if req.), etc. wherever applicable.

FOREST CLEARANCE: Details on the Forest Clearance should be given as per the format given:

TOTAL ML/PROJECT AREA (ha)	TOTAL FORESTLAND (ha)	Date of FC	Extent of forestland	Balance area for which FC is yet to be obtained	Status of appl for. diversion of forestland
		If more than , provide details of each FC			

GENERIC TORs FOR AN UNDERGROUND COALMINE PROJECT

- (i) An EIA-EMP Report shall be prepared for..... MTPA rated capacity in an ML/project area of.....ha based on the generic structure specified in Appendix III of the EIA Notification, 2006.
- (ii) An EIA-EMP Report would be prepared for..... MTPA rated capacity to cover the impacts and environment management plan for the project specific activities on the environment of the region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modeling for..... MTPA of coal production based on approved project/Mining Plan for.....MTPA. Baseline data collection can be for any season (three months) except monsoon.
- (iii) A Study area map of the core zone (project area) and 10 km area of the buffer zone (1: 50,000 scale) clearly delineating the major topographical features such as the land use, surface drainage pattern including rivers/streams/nullahs/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries/mines and other polluting sources. In case of ecologically sensitive areas such as Biosphere Reserves/National Parks/WL Sanctuaries/ Elephant Reserves, forests (Reserved/Protected), migratory corridors of fauna, and areas where endangered fauna and plants of medicinal and economic importance found in the 15 km study area should be given.
- (iv) Map showing the core zone delineating the agricultural land (irrigated and un-irrigated, uncultivable land as defined in the revenue records, forest areas (as per records), along with other physical features such as water bodies, etc should be furnished.
- (v) A contour map showing the area drainage of the core zone and 25 km of the study area (where the water courses of the core zone ultimately join the major rivers/streams outside the lease/project area) should also be clearly indicated in the separate map.
- (vi) A detailed Site plan of the mine showing the proposed break-up of the land for mining operations such as the quarry area, OB dumps, green belt, safety zone, buildings, infrastructure, CHP, ETP, Stockyard, township/colony (within and adjacent to the ML), undisturbed area -if any, and landscape features such as existing roads, drains/natural water bodies to be left undisturbed along with any natural drainage adjoining the lease /project areas, and modification of thereof in terms of construction of embankments/bunds, proposed diversion/re-channelling of the water courses, etc., approach roads, major haul roads, etc should be indicated.
- (vii) Original land use (agricultural land/forestland/grazing land/wasteland/water bodies) of the area should be provided as per the tables given below. Impacts of project, if any on the land use, in particular, agricultural land/forestland/grazing land/water bodies falling within the lease/project and acquired for mining operations should be analyzed. Extent of area under surface rights and under mining rights should be specified.

S.N	ML/Project Land use	Area under Surface Rights(ha)	Area Under Mining Rights (ha)	Area under Both (ha)
1.	Agricultural land			
2.	Forest Land			

3.	Grazing Land			
4.	Settlements			
5.	Others (specify)			

Area under Surface Rights

S.N.	Details	Area (ha)
1.	Buildings	
2.	Infrastructure	
3.	Roads	
4.	Others (specify)	
	TOTAL	

- (viii) Study on the existing flora and fauna in the study area (10km) should be carried out by an institution of relevant discipline. The list of flora and fauna duly authenticated separately for the core and study area and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna should be given. If the study area has endangered flora and fauna, or if the area is occasionally visited or used as a habitat by Schedule-I species, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan along with the appropriate budgetary provision should be prepared and submitted with EIA-EMP Report; and comments/observation from the CWLW of the State Govt. should also be obtained and furnished.
- (ix) Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and sections should be included. The Progressive mine development and Conceptual Final Mine Closure Plan should also be shown in figures. Details of mine plan and mine closure plan approval of Competent Authority should be furnished for green field and expansion projects.
- (x) Details of mining methods, technology, equipment to be used, etc., rationale for selection of specified technology and equipment proposed to be used vis-à-vis the potential impacts should be provided.
- (xi) Impact of mining on hydrology, modification of natural drainage, diversion and channeling of the existing rivers/water courses flowing through the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.
- (xii) One-season (other than monsoon) primary baseline data on environmental quality - air (PM₁₀, PM_{2.5}, SO_x, NO_x and heavy metals such as Hg, Pb, Cr, As, etc), noise, water (surface and groundwater), soil - along with one-season met data coinciding with the same season for AAQ collection period should be provided.
- (xiii) Map (1: 50, 000 scale) of the study area (core and buffer zone) showing the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources, should be provided. The number and location of the sampling stations in both core and buffer zones should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non-polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground

water and surface water as per ISI standards and CPCB classification wherever applicable. Observed values should be provided along with the specified standards.

- (xiv) Impact of mining and water abstraction from the mine on the hydrogeology and groundwater regime within the core zone and 10 km buffer zone including long-term monitoring measures should be provided. Details of rainwater harvesting and measures for recharge of groundwater should be reflected in case there is a declining trend of groundwater availability and/or if the area falls within dark/grey zone.
- (xv) Study on subsidence including modeling for prediction, mitigation/prevention of subsidence, continuous monitoring measures, and safety issues should be carried out.
- (xvi) Detailed water balance should be provided. The break up of water requirement as per different activities in the mining operations, including use of water for sand stowing should be given separately. Source of water for use in mine, sanction of the Competent Authority in the State Govt. and impacts vis-à-vis the competing users should be provided.
- (xvii) Impact of choice of mining method, technology, selected use of machinery and impact on air quality, mineral transportation, coal handling & storage/stockyard, etc, Impact of blasting, noise and vibrations should be provided.
- (xviii) Impacts of mineral transportation within the mining area and outside the lease/project along with flow-chart indicating the specific areas generating fugitive emissions should be provided. Impacts of transportation, handling, transfer of mineral and waste on air quality, generation of effluents from workshop etc, management plan for maintenance of HEMM and other machinery/equipment should be given. Details of various facilities such as rest areas and canteen for workers and effluents/pollution load emanating from these activities should also be provided.
- (xix) Effort be made to reduce/eliminate road transport of coal inside and outside mine and for mechanized loading of coal through CHP/ Silo into wagons and trucks/tippers.
- (xx) Details of various facilities to be provided to the workers in terms of parking, rest areas and canteen, and effluents/pollution load resulting from these activities should also be given.
- (xxi) The number and efficiency of mobile/static water sprinkling system along the main mineral transportation road inside the mine, approach roads to the mine/stockyard/siding, and also the frequency of their use in impacting air quality should be provided.
- (xxii) Impacts of CHP, if any on air and water quality should be given. A flow chart showing water balance along with the details of zero discharge should be provided.
- (xxiii) Conceptual Final Mine Closure Plan and post mining land use and restoration of land/habitat to the pre- mining status should be provided. A Plan for the ecological restoration of the mined out area and post mining land use should be prepared with detailed cost provisions. Impact and management of wastes and issues of re-handling (wherever applicable) and backfilling and progressive mine closure and reclamation should be furnished.
- (xxiv) Greenbelt development should be undertaken particularly around the transport route and CHP. Baseline data on the health of the population in the impact zone and measures for occupational health and safety of the personnel and manpower for the mine should be submitted.
- (xxv) Cost of EMP (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.
- (xxvi) Details of R&R. Detailed project specific R&R Plan with data on the existing socio-economic status of the population (including tribals, SC/ST, BPL families) found in the

study area and broad plan for resettlement of the displaced population, site for the resettlement colony, alternate livelihood concerns/employment for the displaced people, civic and housing amenities being offered, etc and costs along with the schedule of the implementation of the R&R Plan should be given.

- (xxvii) CSR Plan along with details of villages and specific budgetary provisions (capital and recurring) for specific activities over the life of the project should be given.
- (xxviii) Corporate Environment Responsibility:
 - a) The Company must have a well laid down Environment Policy approved by the Board of Directors.
 - b) The Environment Policy must prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
 - c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions must be furnished.
 - d) To have proper checks and balances, the company should have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.
- (xxix) Details on Public Hearing should cover the information relating to notices issued in the newspaper, proceedings/minutes of Public Hearing, the points raised by the general public and commitments made by the proponent and the action proposed with budgets in suitable time frame. These details should be presented in a tabular form. If the Public Hearing is in the regional language, an authenticated English Translation of the same should be provided.
- (xxx) In built mechanism of self-monitoring of compliance of environmental regulations should be indicated.
- (xxxi) Status of any litigations/ court cases filed/pending on the project should be provided.
- (xxxii) Submission of sample test analysis of Characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, S and heavy metals including levels of Hg, As, Pb, Cr etc.
- (xxxiii) Copy of clearances/approvals such as Forestry clearances, Mining Plan Approval, mine closer plan approval. NOC from Flood and Irrigation Dept. (if req.), etc. wherever applicable.

Details on the Forest Clearance should be given as per the format given:

Total ML /Project Area (ha)	Total Forest Land (ha)	Date of FC	Extent of Forest Land	Balance area for which FC is yet to be obtained	Status of appl. For diversion of forest land
		If more than one provide details of each FC			

GENERIC TORs FOR AN OPENCAST-CUM-UNDERGROUND COALMINE PROJECT

- (i) An EIA-EMP Report would be prepared for a combined peak capacity ofMTPA for OC-cum-UG project which consists of MTPA in an ML/project area of ha for OC and MTPA for UG in an ML/project area of ha based on the generic structure specified in Appendix III of the EIA Notification 2006.
- (ii) An EIA-EMP Report would be prepared for..... MTPA rated capacity to cover the impacts and environment management plan for the project specific activities on the environment of the region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modeling for..... MTPA of coal production based on approved project/Mining Plan for.....MTPA. Baseline data collection can be for any season (three months) except monsoon.
- (iii) The ToRs prescribed for both opencast and underground mining are applicable for opencast – cum-underground mining.

02/11/2017

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

Subject: **Re: MOM of 21st EAC meeting held on 27th October, 2017 after incorporating comments of the Lele Sir for your kind perusal and approval.**

Date: 11/01/17 01:23 PM

From: navin chandra <navinchandrarrl@yahoo.com>

To: Purushottam ramdas Sakhare <sakhare.pr@nic.in>,
Srivastava Additional Director <sk.smree66@nic.in>,
"S.K Srivastava" <sk.smree66@gov.in>,
"sksmree@yahoo.co.in" <sksmree@yahoo.co.in>

Draft MOM 21st EAC October, 2017 as on 31.10.2017 ... (141kB)

01.11.2017

Dear Dr. Srivastava/Sakhare,

I have gone through the Final Report of the last meeting of EAC (Coal). The finalized version is attached with this e-mail.

Regards,
Sincerely,

(NAVIN CHANDRA)

Dr. Navin Chandra,
Director General
M P Council of Science and Technology (MPCST),
Vigyan Bhawan, Nehru Nagar, Bhopal - 462003 (M.P.) India
Phone : 91-755- 2671800 (Office)
e-mail : dg@mpcost.nic.in
navinchandrarrl@yahoo.com, navinchandraampri@gmail.com

On Tuesday, October 31, 2017, 5:46:37 PM GMT+5:30, Purushottam ramdas Sakhare <sakhare.pr@nic.in> wrote:

Respected Chairman Sir,

Please find attached MOM of 21st EAC meeting held on 27th October, 2017 after incorporating comments of the Lele Sir for your kind perusal and approval.

With regards

P R Sakhare

21st EAC (THERMAL & COAL MINING PROJECTS) MEETING

SCHEDULED FOR 27th October, 2017.

AGENDA

Venue: Teesta Conference Hall, First Floor, Vayu Wing,
Indira Paryavaran Bhawan, Jorbagh, New Delhi-110003.

[Pl. check the MoEF website: http://environmentclearance.nic.in/Report/Default3.aspx](http://environmentclearance.nic.in/Report/Default3.aspx)

Important Note:

- i. Please send the information as per Annexure 1 by E-mail in word format and also a signed & scanned copy, to the Member-Secretary at sk.smree66@nic.in at least one week prior to the EAC meeting.
- ii. Please send soft copies of all project-related documents that have been uploaded onto the MOEFCC website to EAC members by e-mail [indicating agenda item numbers] immediately upon receiving this communication, and send hard copies of the same documents [indicating agenda items] to all the EAC members, at least one week prior to the meeting and ensure the receipt of same.
- iii. Non receipt of the project will lead to deferment of the project.
- iv. Please also provide a hard copy of presentation to the EAC Members during the meeting.
- v. The Project Proponent should carry the KML/Shape Files of the mine lease area at the time of presentation before EAC and to present on the details of mine lease online to show the present status of mine lease
- vi. The KML/Shape files should be emailed on the below mentioned email addresses at least 10 days prior to the meeting
- vii. The Project Proponent to show the transportation route of minerals on maps during presentation.
- viii. Without this information, EAC has discretion to invite the proponent for the meeting.
- ix. No consultant is permitted into the meeting who has no accreditation with Quality Council of India (QCI) /National Accreditation Board of Education and Training (NABET) as per the MoEF OM dated 2nd December, 2009

COAL MINING PROJECTS

Time: 10.00 AM: Friday: 27th October, 2017

21.1 Sayal D Opencast Coal Mine Project (1.0 MTPA Normative and 1.35 MTPA Peak in a project area of 286.98 Ha; of M/s Central Coalfields Limited in District Ramgarh, Jharkhand-EC [IA/JH/CMIN/27582/2015, F. No. J-11015/157/2015-IA.II(M)]

21.2 Expansion of Bhanegaon Opencast Coal mine project from 0.70 MTPA to 1.15 MTPA in an area of 347.46 ha in Tehsil Kamptee, District Nagpur (Maharashtra) of M/s Western

Coalfields Ltd-EC **[IA/MH/CMIN/8951/2004, F.No.J-11015/43/2004-IA.II(M)]**

- 21.3 Modernization of the 0.34 MTPA underground mine in ML area of 927.17 ha by M/s Tata Steel Limited at Jorapokhar, Pattiya Dungri village, Jharia Tehsil, Dhanbad (Jharkhand) - TOR **[IA/JH/CMIN/69663/2017, F.No.J-11015/91/2017-IA.II(M)]**
- 21.4 Expansion of New Sethia OCP from 0.20 MTPA to 0.50 MTPA of M/s Western Coalfields Limited with increase in mine lease area from 91.503 ha to 144.453 ha located in District Chindwara (Madhya Pradesh) - For Amendment in EC **[IA/MP/CMIN/26250/2012, F.No.J-11015/452/2012-IA.II(M)]**
- 21.5 Expansion of Naheriya Underground Coal Mine Project from 0.36 MTPA to 0.54 MTPA of M/s Western Coalfields Limited in ML area of 300 ha located in Tehsil Parasia, District Chhindwara (MP)-For Amendment in EC **[IA/MP/CMIN/8645/2001, F.No.J-11015/35/2001-IA.II(M)]**
- 21.6 Expansion of New Majri UG to OC Coal Mine from 0.8 MTPA to 1.2 MTPA of M/s Western Coalfields Limited in an area 479.16 ha in District Chandrapur (Maharashtra)- For Amendment in EC **[IA/MH/CMIN/8127/2008, F.No.J-11015/25/2008-IA.II(M)]**
- 21.7 Expansion of Gokul OCP from 1.0 MTPA to 1.875 MTPA in an area of 756.92 ha of M/s Western Coalfields Limited located in District Nagpur (Maharashtra)- For Amendment in EC **[IA/MH/CMIN/7059/2010, F.No.J-11015/1001/2007-IA.II(M)]**
- 21.8 Expansion of Ghonsa OCP of capacity 0.60 MTPA of M/s Western Coalfields Ltd with increase in land area from 128.79 ha to 278.683 ha located in District Yavatmal (Maharashtra)- For Amendment in EC **[IA/MH/CMIN/61865/2010, F.No.J-11015/165/2009-IA.II(M)]**
- 21.9 Cluster no. 1 group of 11 mines project of expansion (from 2.70 MTPA (Normative) to 3.30 MTPA (Peak) in an ML area of 3692 ha of M/s Eastern Coalfields Limited, located at dist. Dhanbad, (Jharkhand) – For Amendment in EC **[IA/JH/CMIN/9519/2011, F.No.J-11015/78/2011-IA.II(M)]**
- 21.10 Cluster III (7 mines of a peak production of 3.6 MTPA in a combined ML area of 1420.61 ha) of M/s Bharat Coking Coal Ltd., located in Jharia Coalfields, Dist. Dhanbad, (Jharkhand) -For Amendment in EC **[IA/JH/CMIN/7874/2010, F.No.J-11015/213/2010-IA.II(M)]**
- 21.11 Cluster V (7 mines of a 4.854 (Normative) and 6.311 (Peak) production of MTPA in a combined ML area of 1957.08 ha) of M/s Bharat Coking Coal Ltd., located in Jharia Coalfields, Dist. Dhanbad (Jharkhand)- For Amendment in EC **[IA/JH/CMIN/6990/2011, F.No.J-11015/01/2011-IA.II(M)]**

- 21.12 Cluster VIII Group of 10 mines (Combined Capacity 4.31 MTPA with a peak production of 5.603 MTPA) in a combined ML area of 1183.92 ha (1200.41 ha-16.49 ha = 1183.92 ha) of M/s Bharat Coking Coal Limited located in Jharia coalfields District Dhanbad (Jharkhand) - For Amendment in EC **[IA/JH/CMIN/17129/2010, F.No.J-11015/298/2010-IA.II(M)]**
- 21.13 Cluster X (6 mines of 1.762 MTPA of normative and peak production of 2.289 MTPA in a combined ML area of 2057.95 ha) and Sudamdih Coal Washery (Within the lease hold of Sudamdih Shaft Mine) of 1,6 MTPA of normative and 2,08 MTPA peak production for a area of 18 ha of M/s Bharat Coking Coal Ltd., located in Jharia Coalfields, Dist. Dhanbad (Jharkhand)- For Amendment in EC **[IA/JH/CMIN/8812/2010, F.No.J-11015/380/2010-IA.II(M)]**
- 21.14 EC to Cluster XI group of mines (5.08 MTPA with a peak capacity of 6.604 MTPA) in a combined ML area of 3447.14 ha (3527.58 ha - 80.44 ha of forest land = 3447.14 ha) and Moonidih Washery (1.6 MTPA peak capacity) of M/s Bharat Coking Coal Limited, located in Jharia Coalfields, dist. Dhanbad (Jharkhand)- For Amendment in EC **[IA/JH/CMIN/9513/2011, F.No.J-11015/77/2011-IA.II(M)]**
- 21.15 Manikpur Opencast expansion project from 3.50 MTPA to 5.25 MTPA in an area of 1018.925 ha of M/s South Eastern Coalfields Limited located at Tehsil & District Korba (Chhattisgarh)- For Amendment in TOR **[IA/CG/CMIN/67108/2017, F.No.J-11015/1129/2007-IA.II(M)]**
- 21.16 Jagannath OCP Expansion Project from 6.0 MTPA to 7.5 MTPA along with expansion in ML area from 430.736 ha to 553.946 ha of M/s Mahanadi Coalfields Limited located in District Angul (Odisha) - For Amendment in TOR **[IA/OR/CMIN/57703/2016, F.No.J-11015/177/2005-IA.II(M)]**
- 21.17 2.5 MTPA Coal Washery in an area of 9.85 ha of M/s Paras Power & Coal Beneficiation Ltd at Ghutku Village, Tehsil Takhatpur, District Bilaspur District (Chhattisgarh) - For Amendment in TOR **[IA/CG/CMIN/50773/2017, F.No.J-11015/70/2016-IA.II(M)]**
- 21.18 Cluster XVII Kalyaneshwari OCP and Kalyaneshwari Washery Project (4 MTPA Normative and 5.20 MTPA Peak in an ML area 1459.10 ha to 1844.09 ha; of M/s Bharat Coking Coal Ltd., Asansol located at Dist. Burdwan, West Bengal - For Extension of TOR validity **[IA/WB/CMIN/20226/2013, F.No.J-11015/373/2013-IA.II(M)]**
- 21.19 Discussion on any other item.
