

Minutes of the 34th meeting of the EAC held on 24th July, 2018 for appraisal of Coal mining projects at Indira Paryavaran Bhawan, Ministry of Environment, Forest and Climate Change, New Delhi-3

A. The 34th meeting of the Expert Appraisal Committee (EAC) for Thermal & Coal mining projects was held on 24th July, 2018 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 32nd meeting of the EAC held on 28th June, 2018 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.34.1

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

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

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

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

(i) The response of the project proponent 'MoEF&CC will grant Environment Clearance to the project only after thorough scrutiny of EIA/EMP Report through Expert appraisal Committee' to the queries raised during public hearing regarding authenticity of data and facts mentioned in the EIA/EMP reports, was not acceptable. The Committee asked for an undertaking in this regard to be furnished by the project proponent.

(ii) Comments from the State Tribal Welfare Department regarding permission for the project from Gram Sabha, impact on livelihood of tribal population, and their concurrence as per the provisions of the Panchayats Extension to Scheduled Areas Act, 1996 (PESA Act) as applicable in the instant case.

(iii) The State Water Resources/Irrigation Department of the State Government to assess the cumulative impact of diversion of streams, and existing and proposed mining operations on Hasdeo river.

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

34.1.3 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) As advised, the project proponent has submitted an undertaking to the MOEF&CC that the baseline data used in EIA/EMP Report are factually correct and it shall be responsible for any discrepancy found in the said report in future.
- (ii) M/s RRVUNL vide letter dated 6th April 2018 requested State Tribal Welfare Department to provide comments on the query raised by EAC. State Tribal Welfare Department has forwarded the letter to Collector, District Surguja&Surajpur for seeking their clarifications on Permission of project from Gram Sabha, Impact on livelihood of Tribal Population and Concurrence of Tribal Population as per the provisions of the PESA.
- (iii) M/s RRVUNL vide letter dated 30th May, 2018, on the issues raised by EAC informed that as Section 4(i) of PESA has not been incorporated into the Chhattisgarh Panchayat Act and taking into consideration the aforementioned caselaws dealing with the subject matter, acquisition of coalbearing lands would be governed by the CBA Act and therefore the provisions of PESA would not apply.
- (iv) Further, No objection Certificate (NOC) has already been granted by all six villages Salhi, Ghatbarra, Hariharpur, Fatehpur of Udaypur Tehsil, Surguja District & Janardanpur & Tara of Premnagar Tehsil, Surajpur District under provisions of Forest Rights Act (FRA) 2006 for diversion of forest land. Subsequently, District Collector, Surguja&Surajpur issued NOC under FRA for the project vide letter no. 4896 dated 13th February 2018 and no. 172 dated 27th March 2018 respectively
- (v) Moreover, during public hearings held on 29th October 2017 in Surguja District and 12th November 2017 in Surajpur District, the villagers of all the six villages supported the project and were convinced that the project will bring improvement to their living standard by providing basic amenities like education, health and will generate employment for the local villagers.
- (vi) In view of the above, provisions of PESA concurrence/permission of Gram Sabha/Tribal Population is not required still sufficient consultation from villagers/Gram Sabha has been done under provisions of FRA as well as EIA Notification for Parsa Coal Block.

A. Impact on livelihood of tribal population -

Welfare measures related to Sustainable Livelihood (which includes Agriculture, horticulture, fisheries, animal husbandry, food security, skill development etc.), Health, education etc. are proposed under Corporate Social Responsibility (CSR) Programme. Total estimated budget has been kept at Rs. 1560/- Lakh for five-year CSR plan (as per target/peak coal production) is as below-

CSR/TDP Activities	First Year		Second Year		Third Year		Fourth Year		Fifth Year	
	Capital	Recurring	Capital	Recurring	Capital	Recurring	Capital	Recurring	Capital	Recurring
(Rs. in Lakhs)										
Education support initiatives	15	20	20	30	30	50	30	50	30	50
Community health support	15	20	20	30	30	50	30	50	30	50

initiatives										
Sustainable livelihood development initiative	5	10	15	30	30	50	30	50	30	50
Basic facility / infrastructure support initiative	5	10	15	30	30	50	30	50	30	50
Sports, cultural & welfare exp.	5	10	15	20	30	40	30	40	30	40
Administrative exp.	-	5	5	10	0	10	0	10	0	10
Total Amount	45	75	90	150	150	250	150	250	150	250
Total Exp. (Rs. in Lakhs)	120		240		400		400		400	

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

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

Out of the total project area, forest land involved is 841.538 ha. Stage-I forest clearance for the same was reported to be under process, and thus yet to be diverted for non-forestry purposes.

Mining Plan was approved by Ministry of Coal vide letter File No.34011/24/2016-CPAM dated 10th November, 2016. Mine closure plan is an integral part of the Mining Plan.

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

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

34.1.5 The Committee, after deliberations, insisted for compliance of its earlier observations in its meeting held on 15-16 February, 2018, which inter-alia include the following:-

- *Comments from the State Tribal Welfare Department regarding permission for the project from Gram Sabha, impact on livelihood of tribal population, and their concurrence as per the provisions of the Panchayats Extension to Scheduled Areas Act, 1996 (PESA Act) as applicable in the instant case.*
- *The State Water Resources/Irrigation Department of the State Government to assess the cumulative impact of diversion of streams, and existing and proposed mining operations on Hasdeo river.*
- *Opinion of the State Wild Life Board regarding impact of existing and proposed mining operations on elephant movement and other wild life species needs to be sought, in view of part of the area proposed for Lemru Elephant Reserve.*

In view of the above, the proposal was not taken forward.

Agenda No.34.2

Dinesh (Makardhokra-III) Opencast Coal Mine Expansion Project from 3 MTPA to 4.5 MTPA of M/s Western Coalfields Limited in an area of 1636.97 ha located in District Nagpur (Maharashtra) - For further consideration of EC

[IA/MH/CMIN/20405/2011, F.No.J-11015/537/2008-IA.II(M)]

34.2.1 The proposal is for environmental clearance to Dinesh (Makardhokra-III) Opencast Coal Mine Expansion Project from 3 MTPA to 4.5 MTPA of M/s Western Coalfields Limited in an area of 1636.97 ha located in District Nagpur (Maharashtra)

34.2.2 The proposal was considered by the EAC in its 28th meeting held on 17-18th April, 2018, wherein the Committee after deliberations noted that the last public hearing for the project was conducted by the State Pollution Control Board on 22nd October, 2010, which was more than three years old, and thus not in conformity with the present norms/guidelines in this regard. Also, the baseline air quality for PM10, both in core zone and the buffer zone, were not meeting the respective standards. Accordingly, the Committee desired for adequate mitigating measures to address the air quality concerns. The Committee also insisted for fresh public hearing for the proposed expansion from 3 MTPA to 4.50 MTPA, even if the project area remains same. In view of the above, the proposal was not taken forward.

34.2.3 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:-

Sl No	Observations of the EAC meeting	ATR by Project Proponent
1	last public hearing for the project was conducted by the State Pollution Control Board on 22 nd October, 2010, which was more than three years old, and thus not in conformity with the present norms/guidelines in this regard. The Committee also	i. The existing EC for Dinesh (Makardhokra – III) OC was accorded for 3.0 MTPA in an area of 1636.97 Ha under EIA Notification 2006 vide letter no.J-11015/537/2008-IA-II(M) dated 21-06-2011. ii. The original application was made for enhancement of 50% in production capacity

	<p>insisted for fresh public hearing for the proposed expansion from 3 MTPA to 4.50 MTPA, even if the project area remains same.</p>	<p>within EC sanctioned land area i.e 3.0 MTPA to 4.50 MTPA in an area of 1636.97 Ha as per the approved PR/Mining plan.</p> <p>iii. The Public Hearing for the entire area of 1636.97 Ha with 3.0 MTPA production capacity was held on 22-10-2010 as per EIA Notification 2006, subsequently EC for 3.0 MTPA was accorded based on the Public Hearing.</p> <p>iv. In view of the observation of EAC, it is submitted that :-</p> <ol style="list-style-type: none"> 1. PH was conducted as per EIA Notification 2006. 2. The minutes of the public hearing along with the compliance has also been submitted to the ministry <p>v. Based on above, EC is solicited for atleast 40% capacity enhancement with the same parameters i.e. from 3.0 MTPA to 4.20 MTPA with exemption of public hearing as per the O.M. dated 15-09-2017.</p> <p>vi. It is further submitted that EC compliance from Regional Office, MoEF& CC has been secured vide no. 3-23/2011(env)/3228 dated 07-02-2018 which was also deliberated in the 28th EAC meeting held on 17-04-2018</p>
2	<p>The baseline air quality for PM₁₀, both in core zone and the buffer zone, were not meeting the respective standards. Accordingly, the Committee desired for adequate mitigating measures to address the air quality concerns</p>	<p>(i) To address the air quality concern, joint vigilance sampling has been done by MPCB, the observed results shows that environmental parameters are within permissible limits.</p> <p>(ii) In addition to this, routine environmental monitoring by CMPDI also confirms, the observed air quality parameters are well within the permissible limit of set standards.</p> <p>(iii) The details of existing pollution control measures at Dinesh OC is placed below:</p> <ol style="list-style-type: none"> (ii) 34 nos. of fixed sprinklers installed along coal transportation road & siding (iii) 8 Nos. of sprinklers installed at CHP (iv) 12 nos. (revised) of sprinklers are under process of installation and are expected to be commissioned by the end of August, 2018 (revised date). (v) 4 Nos of mobile tankers with 18KL capacity are deployed for dust

		<p>suppression at haul road, near coal stock yard & coal transportation roads.</p> <p>(vi) 5000 Nos. of saplings planted till date</p> <p>(iv) Further, it is submitted that, the regular environmental monitoring will be continued during expansion and additional measures as needed will be augmented for pollution control.</p> <p>(v) Future Scenario: As already indicated during the last EAC, there is a proposal of setting up of Pit head Thermal Power Plant (TPP) of 1 x 800 MW capacity by MAHAGENCO in the vicinity of Dinesh (Makardhokra – III) OC. The proposed TPP is to be fed from the subject OCP and as such the Coal transportation will be by conveyor or dedicated transport system. So, chances of air pollution from the said OC will be significantly reduced.</p>
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34.2.4 During deliberations, the committee noted the following:-

The proposal is for environmental clearance to the project for expansion of Dinesh (Makardhokra-III) Opencast Coal Mine by 40% only i.e. from 3 to 4.20 MTPA in an area of 1636.97 ha located in District Nagpur (Maharashtra).

Out of the total project area, forest land involved is 69.85 ha. Stage-I forest clearance for the same was reported to be under process, and thus yet to be diverted for non-forestry purposes. No mining activities have been carried out in the said forest land.

Mining Plan for the proposed expansion was approved by CIL Board vide letter dated 17th August, 2016. Mine closure plan is an integral part of the Mining Plan.

Earlier, the project for capacity of 3 MTPA in an area of 1636.97 Ha was granted EC by the Ministry vide letter dated 21st June, 2011, based on public hearing conducted by SPCB on 20th October, 2010. The present proposal is for consideration under the provisions of para 7(ii) of the EIA Notification, 2006 for expansion in capacity by 40% without any increase in mine lease area seeking exemption from fresh public hearing. The project proponent has also submitted the status of compliance against the Ministry's OM dated 15th September, 2017.

Certificate of compliance against the existing EC of 3 MTPA capacity has been obtained from MoEF&CC, Regional Office located at Nagpur, vide letter dated 7th February, 2018.

Consent to operate has been obtained from the State Pollution Control Board for the existing capacity of 3 MTPA vide their letter dated 7th April, 2018, which is presently valid upto 31st March, 2020.

The latest ambient air quality data in respect of PM₁₀ have been found to be within the prescribed norms. The PP has also detailed out the mitigative measures taken for control of air pollution.

34.2.5 *The EAC, after deliberations, noted that the mine lease of 1636.97 ha does involve 69.85 ha of forest land, for which stage-I forest clearance is yet to be obtained. As such, there is no change in the status from that when the earlier environmental clearance was granted by the Ministry on 21st June, 2011 for its capacity of 3 MTPA in the same mine lease area of 1636.97 ha. The Committee was further informed that said forest area of 69.85 ha is a part of the Mining Plan and the mine lease area.*

In view of the above and given the orders of Hon'ble Supreme Court in Lafarge matter in July, 2011, the Committee desired for stage-I forest clearance 69.85 ha of forest land to take the proposal forward or the Mining Plan/mining lease to be revised accordingly excluding the said forest land.

In view of the above, the proposal was not taken forward.

Agenda No.34.3

Jagannath Opencast Coal mine Expansion Project from 6.0 MTPA to 7.5 MTPA with increase in ML area from 430.736 ha to 553.946 ha of M/s Mahanadi Coalfields Ltd located in District Angul (Odisha) -For further consideration of EC

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

34.3.1 The proposal is for environmental clearance to Jagannath Opencast Coal mine Expansion Project from 6.0 MTPA to 7.5 MTPA with increase in ML area from 430.736 ha to 553.946 ha of M/s Mahanadi Coalfields Ltd located in District Angul (Odisha)

34.3.2 The proposal was earlier considered by the EAC in its 30th meeting held on 17-18 May, 2018, wherein the Committee insisted for clarifications and inputs in respect of the following:-

(i) The EAC, after deliberations, took serious note of the non-compliances of the EC conditions, and insisted for fresh report by the Regional Office and/or examination of the action taken report vis-à-vis their observations during earlier site visit on 23rd December, 2016. The Committee desired for the present status and recommendations of the Regional Office to take the proposal forward.

(ii) The Committee further desired that the Ministry may take necessary action on non-compliance of the EC conditions, especially excess coal production during the period 2010-11.

(iii) The project involves additional area of 123.21 ha to be acquired from Bharatpur Opencast Coal Mining project. As such, the parallel proposal for amendment in the EC for Bharatpur OCP also needs to be submitted.

34.3.3 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 mine was again inspected by Eastern Regional office (ERO) of MoEF&CC on 26th June, 2018.

(ii) Certified compliance report issued vide letter No.101-174/E.P.E/149 dated 29th June, 2018.

(iii) After the inspection, ERO of MoEF&CC has found that out of the 12 non-compliance points (earlier containing letter dated 5th April, 2017), few conditions have been complied or in the process of complying. Further, the Regional Office has sought information/action plan on certain issues. Those along with the present status of compliance/action plan,were reported to be as under:-

S. No	Observations of MOEF(ERO)	Status and measures for compliance
1	It has been found that the management of OB dumps including retaining wall, toe wall, catch drains, height of OB and its slope, plantation (including density), etc is very poor in conditions. Therefore, time bound action shall be prepared and executed with utmost dedication.	The external overburden dumps are very old (more than 30years), biologically reclaimed and very stable. The catch drains are cleaned every year. With regard to height of the dump and its slope,it is seen that max 25m height with bench formation wherever required both for internal and external dumps are made. The water drained from the external catch drain is being collected in the large size sumps in the mine and also the drainage system in the internal dumps is sloped towards the sump, the top of the internal dump is gently sloped to guide the water to the sump. No external discharge is made either from internal dumps or external dumps. The external dump over the year has settled and is fully stable. The plantation density in the both external and internal dumps is kept within the guidelines of forest department i.e. 2500 numbers of plants per Ha. During the contract period then, due to fall of trees from frequent storms during monsoons/cyclones gaps exists. The gullies formed due to rainwater pathways are to be repaired by plugging to arrest the soil erosion. The toe wall of external dump, which is being damaged, will be repaired. Before the monsoon, the work of cleaning the catch drain of external dump, including all drains inside the active area in the mines and internal dump are being done. A time bound program to repair the toe wall, gully plugging are being charted out & will be executed within 3 months time.
2	It has been found that waste water generated from the workshop and CHP area is not being properly treated in the existing ETP. It is requested to re-examine the quantum of wastewater generated from the workshop and CHP area and capacity of the ETP including oil and grease trapper.	A time bound program has been made for renovation of ETP and will be completed by August 2019. A primary settling tank will be constructed to connect the existing oil and grease trap and the abundant oil and grease trap, by which the capacity of oil and grease trap will be increased to handle more effluent and also primary settling tank will take care of TSS. Inclusion of Secondary settling tank after oil & grease tank will also be taken up.

3	It has been found that the safety measures are not up to the mark. Most of the worker including officer working without wearing the safety shoes etc.	<p>All officers and workers are provided with helmets and safety shoes. All shift in-charges and officers are instructed and cautioned not to enter the mines without wearing safety shoes and helmet. To make awareness of all employees Weekly Sensitization Programs, daily shift safety talks, fortnightly workshops on Occupational Health & Safety are being conducted. All contractual workers and all departmental workers are covered in the awareness programme. Posters & awareness boards are installed in key locations.</p> <p>Safety items issued:</p> <table border="1" data-bbox="711 533 1419 646"> <thead> <tr> <th>Item</th> <th>2016</th> <th>2017</th> <th>2018</th> </tr> </thead> <tbody> <tr> <td>Helmet</td> <td>161</td> <td>392</td> <td>202</td> </tr> <tr> <td>Foot Wear</td> <td>830</td> <td>1097</td> <td>595</td> </tr> </tbody> </table>	Item	2016	2017	2018	Helmet	161	392	202	Foot Wear	830	1097	595
Item	2016	2017	2018											
Helmet	161	392	202											
Foot Wear	830	1097	595											
4	It is required to increase the plantation density up to 2500 plant per ha. On the internal and external OB dump and safety zone plantation area.	The contract for plantation is done with density 2500 numbers of plants per hectare and its replacements are made year after year to make up the mortality upto 5years. The external dump gaps created due to fall of trees during monsoon and cyclones will be taken up next year in 2019 plantation program												
5	As informed that the work order for construction of metallic haul roads has been granted. It is requested the executed the above work within stipulated time period.	The work order for making permanent haul roads for 650 m will be completed in October, 2018.												
6	Analysis reports of sump water indicated that the pH of the central sump was found around 3.2 whereas, other sump water were around 6.7. It is required to explore the reason for significant change in water quality and report will submit to Regional office within six months.	Based on the analysis report for the sample collected on 30.11.2016 by CMPDI. Fresh samples were collected by CMPDI on 05.07.2018 from all the 3 N0s sumps, the pH value of the central sump, east sump & west sump water was 7.35, 7.78 & 6.65 respectively. Analysis was also done through SPCB, Lab. Therefore, are within the prescribed limit.												

The final recommendation of the ERO of MoEF&CC is “Minor violation detected (not of immediate danger to safety and health of the people). Letter issued to project authorities for taking corrective measures.”

- (iv) The excess production during the period 2010-11 was 0.33 Million tons, thereafter there is no instance of excess production.
- (v) The revised mining plan of Bharatpur OCP has been approved by the Company Board in its 202nd Board meeting held on 24th May 2018.
- (vi) The proposal for amendment in the EC of Bharatpur OCP has been submitted to MoEF&CC through the online portal & acknowledgement received by email dated 4th July, 2018.

34.3.4 During deliberations, the Committee noted the following:-

The proposal is for grant of environmental clearance to the expansion of Jagannath Opencast Coal Mining project from 6.0 MTPA to 7.5 MTPA with increase in ML area from 430.736 ha to 553.946 ha of M/s Mahanadi Coalfields Ltd located in District Angul (Odisha).

Earlier, the project for its capacity of 6 MTPA in mine lease area of 430.736 ha was accorded EC vide letter dated 29th September, 2005.

Total project area of 578.426 ha includes forest area of 82.736 ha, for which Stage-II FC has been obtained vide letter 9th November, 2005 & 7th February, 2014. The additional area of 123.21 ha has been carved out of the existing Bharatpur OCP for which the revised Mining Plan was approved by MCL Board on 24th May, 2018. Mine Closure Plan is an integral part of Mining Plan. The proposal for amendment in environmental clearance for the Bharatpur OCP has been submitted vide proposal no. IA/OR/CMIN/9356/2007 dated 4th July, 2018.

ToR for the project for expansion from 6 MTPA to 7.5 MTPA in a total area of 578.426 ha was granted on 16th August, 2017, followed by amendment on 28th December, 2017 for exemption from public hearing. The said exemption was granted considering 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.

The Ministry's Regional Office at Bhubaneswar has carried out the site visit on 23rd December, 2016 and submitted the monitoring report on compliance status of EC conditions vide letter dated 5th April, 2017. As desired by the Regional Office, action taken report on the non-compliance was first submitted on 15th April, 2017 and then on 10th May, 2018 by the project proponent.

The mine was again inspected by Eastern Regional office (ERO) of MoEF&CC on 26th June 2018. Monitoring report on compliance status of EC conditions has been forwarded by the ERO vide their letter dated 29th June, 2018. The action taken report vis-à-vis their observations, was submitted on 13th July, 2018.

Coal production during the period 2010-11 is reported to be 6.33 MTPA i.e. more than the sanctioned capacity of 6 MTPA, which amounts to non-compliance of the EC conditions and thus violation of the EIA Notification, 2006. The same was noted during the meeting of the EAC held on 17-18 May, 2018, and it was desired that the Ministry may take necessary action on non-compliance of the EC conditions. In such a case, the proposal for ToR/EC should have been considered by the EAC (Violation) in pursuance of the Ministry's Notification dated 14th March, 2017.

Meanwhile, in view of some of the TPPs dependent upon coal supply from the Jagannath OCP, the project proponent has strongly requested to consider their present proposal for grant of EC. The details of the linked consumers are reported to be as under:-

S. No.	Consumers	Existing 6 MTPA	Proposed 7.5 MTPA
1.	TTPS, NTPC, Talcher	2.0 MTPA	2.0 MTPA
2.	By rail to power plants –	3.0 MTPA	4.5 MTPA

	APPDCL, APGENCO, NTPC (Shimadri, Mouda, Sholapur), NTECL, GMR, Haldia Energy Ltd, KPCL Raichur, NLC TPL		
3.	Road sale to local consumers	1.0 MTPA	1.0 MTPA

The project proponent has further informed that Jagannath Opencast Coal mine is the dedicated linked project to Talcher TPP and is on the verge of closure due to limited land in the existing EC area. In order to ensure regular supply of coal to Talcher TPP and other critical and super critical power plants and thus to meet growing energy demand of the country, it has been requested to consider the proposal.

34.3.5 *The EAC, after deliberations and in view of its earlier observations regarding excess coal production and thus violation of the EIA Notification, 2006, insisted for the proposal to be considered in pursuance of this Ministry's Notification 14th March, 2017 and also the Ministry to take necessary action in this regard.*

Alternately, and especially acknowledging the importance of coal supply to the linked TPPs/customers from the Jagannath OCP, the EAC recommended the project for grant of environmental clearance to expansion of Jagannath Opencast Coal mine from 6.0 MTPA to 7.5 MTPA involving increase in ML area from 430.736 ha to 553.946 ha of M/s Mahanadi Coalfields Ltd located in District Angul (Odisha), for a period up to 31st March, 2019 only as an emergency measure, subject to the compliance of terms and conditions as applicable, and the additional conditions as under:-

- (i) There being excess coal production and non-compliance of the EC conditions, and thus violation of the EIA Notification, 2006, the proposal shall be separately considered by the EAC (Violation) also, in pursuance of the Ministry's Notification, 14th March, 2017. The project proponent shall be bound to undertake and comply with all the conditions stipulated by the EAC (Violation).*
- (ii) The State Government shall take action against the project proponent under the relevant provisions of the Environment (Protection) Act, 1986 for the violation of the EIA Notification, 2006.*
- (iii) To control the production of dust at source, the crusher and in-pit belt conveyors shall be provided with mist type sprinklers.*
- (iv) Mitigative measures shall be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient numbers of water sprinklers. Adequate corrective measures shall be undertaken to control dust emissions as presented before the Committee, which would include mechanized sweeping, water sprinkling/mist spraying on haul roads and loading sites, long range misting/fogging arrangement, wind barrier wall and vertical greenery system, green belt, dust suppression arrangement at railway siding, etc.*
- (v) Persons of nearby villages shall be given training on livelihood and skill development to make them employable.*
- (vi) To ensure health and welfare of nearby villages, regular medical camps shall be organized at least once in six months.*
- (vii) Thick green belt of 75 m width at the final boundary in the down wind direction of the project site shall be developed to mitigate/check the dust pollution.*

Agenda No.34.4

Talabira-II & III Opencast Coal Mining Project of 20 MTPA (Normative)/23 MTPA (Peak) in an area of 1914.063 ha M/s NLC India Limited (Formerly known as M/s Neyveli Lignite Corporation Limited) located in District Jharsuguda (Odisha)- For EC

[IA/OR/CMIN/75826/2018, F No. J-11015/215/2007-IA.II(M)]

The earlier proposal for grant of EC, recommended by the EAC in its meeting held on 28th June, 2014, was submitted offline. In such a case, there being no option left, the present proposal for EC has been uploaded on the ToR portal.

34.4.1 The proposal is for environmental clearance to Talabira-II & III Opencast Coal Mining Project of 20 MTPA (Normative)/23 MTPA (Peak) in an area of 1914.063 ha M/s NLC India Limited (Formerly known as M/s Neyveli Lignite Corporation Limited) located in District Jharsuguda (Odisha).

34.4.2 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 proposal of Talabira-II & III Opencast coal mining project of 20 MTPA (Normative)/23 MTPA peak in an area of 1914.063 ha District Jharsuguda (Odisha) of M/s MNH Shakti Ltd (A JV company of MCL, NLC & Hindalco) was considered in the EAC meeting held on 28th June, 2014 and recommended for grant of EC subject to submission of stage-I forest clearance. The project proponent was informed accordingly vide this Ministry's letter dated 22nd September, 2014 to submit the stage-I forest clearance within the prescribed time limit of one year.

(ii) ToR for the project was granted vide letter no. J-11015/12/2007-IA.II (M) dated 23rd May, 2007.

(iii) The latitudes and longitudes of the project are 21° 44' 37" to 21° 47' 29" (N), 84° 56' 45" to 83° 59' 00" (E) respectively.

(iv) Joint Venture: No joint venture

(v) Coal Linkage: Captive mine for following TPS.

SL No.	Name of Specified end use plant	Address	Configuration	Capacity
1	NTPL TPS	Tutucorin, Tutucorin, Tamil Nadu	2x 500MW	1000 MW
2	Talabira TPS, Phase I	Sambalpur &Jharsuguda, Odisha	3x 800 MW	2400 MW
3	Talabira TPS, Phase II	Sambalpur &Jharsuguda, Odisha	1x 800 MW	800MW

(vi) Employment generated/to be generated: The total manpower required for Talabira-II & III for 20 million tons per annum coal production, is assessed at 427 till 8th year of mine operation (target achieving year).

(vii) Benefits of the project:

- Coal produced from this project will be used for power generation in the States of Tamil Nadu and Odisha, which will help in reducing the demand and production gap of electricity In Southern States and Odisha.
- **Improvement in the Physical Infrastructure-** The basic requirements and needs of local people will be strengthened enabling them to have easy access to health care, educational facilities and portable drinking water through the well-developed inclusive Township for the Project Affected Persons.
- **Indirect benefit of the project-** Development of coal block will also boost the local economy and result in cretion of new Infrastructure Facilities.

(viii) The land usage of the project will be as follows:

Pre-mining:

S.No.	LANDUSE	Within ML Area (ha)	Outside Area (ha)	TOTAL (ha)
1	Agricultural land	457.078	-	457.078
2	Forest land	1,038.187	-	1038.187
3	Wasteland	287.693	-	287.693
4	Grazing land	40.688	-	40.6875
5	Surface water bodies	67.699	-	67.6985
6	Settlements	16.175	-	16.175
7	Others (specify) (Roads)	6.544	-	6.544
	Total			1914.063

Post Mining:

SL.No.	LANDUSE During Mining	Land Use in (ha)				
		Plantation	Water Bodies	Public Use	Undisturbed	Total
1	External OB Dump	0	0	0	0	0
2	Top Soil Dump	0	0	0	0	0
3	Excavation	665.264	307.280	0	0	972.544
4	Roads/ Built Up Area	0	0	241.230	0	241.230
5	Green Belt	353.836	0	0	346.453	700.289

	Total	1019.100	307.280	241.230	346.453	1914.063
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(ix) Total net geological reserve is 589.21 MT. The mineable reserve 580.55 MT, extractable reserve is 553.98 MT. The per cent of extraction would be 95.42%.

(x) The grade of coal D to G (UHV) Mean F. The stripping ratio is 1.09 M³/T. The average Gradient is 5° to 19°. Thickness of all the six seams occurring in the ML area is tabulated as under:-

Seam	Units	Mean Thickness
Rampur Top III	M	3.35
Rampur Top II	M	21.83
Rampur Top I	M	23.63
Rampur Bot II	M	2.28
Rampur Bot I	M	1.72
lb Top	M	3.35

(xi) Total estimated water requirement is 4460 cum/day. The level of ground water ranges from 3 m to 5 m below ground level.

(xii) The method of mining would be opencast mining deploying Surface Miner and shovel-dumper.

(xiii) There is one external OB dump with quantity of 72.63Mcum in an area of 149 Ha with height of 60 meter above the surface level and 1 internal dump with Quantity of 603.77Mcum in an area of 665.24 Ha. Externally dumped OB will be re-handled and brought back inside the quarry before final mine closure. There shall be no external dump after final mine closure.

(xiv) The total quarry area is 972.52 Ha. Backfilled quarry area of 665.24 Ha shall have RL of 210M from mean sea level which shall be reclaimed with plantation. The final mine void would be 307.28 Ha with depth varying from 20 to 40 m. Proposed void shall be converted into a water body.

(xv) The life of mine is 34 years including 2 years of construction period.

(xvi) Transportation: The Coal is required to be transported to Pit head Talabira TPS(4X 800 MW) and NTPL Tuticorin (2X500 MW) . Coal transportation within lease area will be done by dumpers and conveyors upto Silo and from Silo it will be transported through railway for NTPL, Tuticorin. For Talabira TPS, Coal will be transported through covered conveyor from coal depot. Thus, the dumper movements will be restricted to core area only. However, interim transportation for 3 years upto a distance of 12 km is proposed by road through transporting covered trippers/ dumpers.

(xvii) There is R & R involved. There are 2973 number of PAFs.

(xviii) Cost: Total capital cost of the project is Rs. 2401.07 Crores. CSR Cost will be Rs. 5/-Per tonnes of coal produced or 2% of the profit earned whichever is lesser. R&R Cost is Rs.1255.77 Crores. Environmental Management Cost Rs. 11.68 Crore.

(xix) Approval:

- ToR issued by MoEF vide letter no. J-11015/215/2007-I.A.II (M)) dated 23rd May 2007.
- Competent authority has approved the proposal of EC vide letter No. J11015/215/2007-IA-II(M) dated 22nd September 2014, and informed that the formal Environmental clearance will be issued only after the stage-I forestry clearance for the forest land involved in the project has been obtained and submitted.
- Meanwhile, Honorable Supreme Court of India through its Judgment dated 25.08.2014 and 24.09.2014 had cancelled allotment of 204 Coal Block including Talabira –II & III Coal Block from previous allottees. Based on the Judgment, Govt. of India has enacted the Coal Mines (Special provision) Act, 2015, for re-allocation of coal Block.

- Ministry of Coal (MOC), vide Allotment Order No. F.No.103/1/2016-NA, dated 2nd May, 2016 has re-allocated Talabira-II & III coal block to M/s. Neyveli Lignite Corporation Limited (NLC) for its end use projects. In terms of allotment Order no. F. No. 103/1/2016-NA, NLCIL is entitled for all approvals granted by Central Govt.
- NLCIL vide letter dated 10.06.2016 has requested MoEF& CC to reopen the proposal of Talabira-II & III opencast project (20 MTPA Normative and 23 MTPA peak in an area of 1914.063 Ha; - District Jharsuguda, Odisha and grant Environment Clearance as soon as Stage-I Forestry Clearance is obtained and submitted.
- As the coal block was allotted NLCIL, NLCIL requested AIG of Forests vide letter dated 28.06.2016 for transferring the proposal for diversion of 1038.187 ha of forest land for Coal Mining Project of Talabira II & III OCP in Jharsuguda and Sambalpur Districts in the state of Odisha submitted by original user agency M/s MNH Shakti Ltd to M/s Neyveli Lignite Corporation Limited (the new user agency).
- Diversion of 1,038.187 hectares of Revenue and DLC forest land including 4.051 hectares under safety zone within the lease hold area of 1,914.063 hectares was considered by the FAC in its meeting held on 17.05.2018. FAC after thorough deliberation and discussion with user agency, recommended the proposal with standard, general and specific conditions.
- Enclosing the recommendations of FAC, NLC India Limited through its letter dated 30.05.2018 has requested MoEF& CC to grant the Environmental Clearance for Talabira II & III OCP.
- Forest Conservation Division of MoEF&CC vide order dated **3.7.2018** has granted In-principle/Stage-I approval for diversion of 1,038.187 hectares of Revenue and DLC forest land including 4.051 hectares under safety zone within the lease hold area of 1,914.063 hectares allocated for opencast coal project (OCP) under the Forest (Conservation) Act, 1980 in Jharsuguda and Sambalpur Forest Division within the jurisdiction of Jharsuguda district and Sambalpur district of Odisha in favour of M/s. Neyveli Lignite Corporation (NLC) India Limited subject to fulfillment of certain conditions.
- As other project activities are in advanced stage, NLC India Limited has approached MoEF& CC for granting Environmental Clearance, so that the project could be implemented as per Time schedule to supply coal to the end use Thermal Projects.

(xx) Wildlife issues: Preparation of Site specific Wild Life Management Plan is in process and shall be submitted for Stage II clearance.

(xxi) Total forest area involved is 1038.187 Ha (including safety zone and all types of forest land). Forest Clearance Stage I has been obtained for the same.

(xxii) Total afforestation plan shall be implemented covering an area of 1019.100 Ha at the end of mining. Density of tree plantation 2500 is trees/Ha of plants.

(xxiii) There is no court case/violation pending with the project proponent.

(xxiv) The baseline data has been generated for pre-monsoon season for the period 08.01.2018 to 29.04.2018 and all the air, water, noise and other parameters were found to be within limit.

(xxv) The calendar programme of coal production proposed:

Year	Coal(MT)	OB(MCUM)
3	1.25	1.79
4	4.00	5.64
5	8.00	11.12
6	12.00	16.06
7	16.00	20.09

8	20.00	24.27
9	20.00	23.76
10	20.00	23.76
11	20.00	23.76
12	21.00	25.20
13	22.00	26.40
14	23.00	27.60
15	20.00	24.01
16	20.00	24.01
17	20.00	24.01
18	20.00	23.43
19	21.00	24.57
20	22.00	25.96
21	23.00	27.14
22	23.00	27.14
23	23.00	24.84
24	22.00	20.90
25	21.00	19.95
26	21.00	19.74
27	20.00	19.73
28	20.00	19.72
29	20.00	18.40
30	16.00	14.56
31	12.00	8.28
32	10.00	3.80
33	8.00	2.20
34	4.73	1.84
Total	553.98	603.68

Note: Peak production shall be achieved in the years where the geo-mining conditions are favorable and by increasing efficiency and no. of working days to meet overall demand of NLCIL.

(xxvi) Public consultation by the Odisha State Pollution Control Board was conducted in two districts, on 19th December, 2010 at Khinda High School Premises, Sambalpur and on 23rd May, 2012 Malda UP School on Jharsuguda.

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

The proposal is for greenfield project of Talabira-II & III Opencast coal mine of capacity 20 MTPA (Normative)/23 MTPA (peak)of M/s M/s NLC India Limited (Formerly known as M/s Neyveli Lignite Corporation Limited) located in mine lease area of 1914.063 ha in District Jharsuguda (Odisha).

Out of the total lease hold of 1914.063 ha, forest land (including safety zone and all types of forest land) involved is 1038.187 ha. Stage-I forest clearance has been obtained vide letter dated 3rd July, 2018 for diversion of the said forest land for non-forestry purposes.

Earlier, the project for Talabira Opencast coal mine of capacity 20 MTPA was granted environmental clearance by the Ministry in favour of M/s MNH Shakti Ltd vide letter dated 23rd February, 2008. Meanwhile, Hon'ble Supreme Court of India vide Judgment dated 25th August, 2014 & 24th September, 2014 had cancelled allotment of 204 coal blocks including Talabira-II & III Coal Block. After enactment of the Coal Mines (Special provision) Act, 2015, the coal block has since been reallocated to M/s Neyveli Lignite Corporation Limited (NLC) vide allotment order dated 2nd May, 2016 by O/o the nominated authority in the Ministry of Coal.

The proposal was earlier considered by the sectoral EAC in its meeting held on 28th June, 2014 and recommended for grant of environmental clearance, subject to submission of stage-I forest clearance. However, the proposal was not taken forward at that stage, and finally delisted due to non-submission of stage-I forest clearance within a period of 18 months as per the provisions of the Ministry's OMDated 9th September, 2011.

The ToR for the project was granted on 23rd May 2007 and the public hearing was conducted by the State Pollution Control Board on 19th December, 2010 at Khinda High School Premises, Sambalpur District and on 23.05.2012 Malda U.P School on Jharsuguda. Main issues raised therein included rehabilitation & employment of oustees, social & economical problem of oustees and affected population like availability of drinking water, electricity and employment.

Fresh baseline data was collected during the period from January, 2018 to April, 2018, and the same was compared with the earlier data for its consistency, which was found to be in order.

34.4.4 *The Committee, after deliberations, exempted the proposal from the requirement of another EIA/EMP report and the fresh public hearing, and recommended the project for grant of environmental clearance to Talabira-II & III Opencast Coal Mining Project of 20 MTPA (Normative)/23 MTPA (Peak) in an area of 1914.063 ha M/s NLC India Limited located in District Jharsuguda (Odisha), subject to the compliance of terms and conditions as applicable, and the additional conditions as under:-*

- (i) All the conditions stipulated in the stage-I forest clearance dated 3rd July, 2018 shall be strictly complied with.*
- (ii) To control the production of dust at source, the crusher and in-pit belt conveyors shall be provided with mist type sprinklers.*
- (iii) Mitigative measures shall be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient numbers of water sprinklers. Adequate corrective measures shall be undertaken to control dust emissions as presented before the Committee, which would include mechanized sweeping, water sprinkling/mist spraying on haul roads and loading sites, long range misting/fogging arrangement, wind barrier wall and vertical greenery system, green belt, dust suppression arrangement at railway siding, etc.*
- (iv) Persons of nearby villages shall be given training on livelihood and skill development to make them employable.*
- (v) To ensure health and welfare of nearby villages, regular medical camps shall be organized at least once in six months.*
- (vi) Thick green belt of 75 m width at the final boundary in the down wind direction of the project site shall be developed to mitigate/check the dust pollution.*
- (vii) Bio-diversity study shall carried out and submitted to the Ministry for its review.*

Agenda No.34.5

Expansion of Kanchan Opencast Coal Mine Project of 0.65 MTPA to 2.7 MTPA(Peak) in an area of 749.31 ha of M/s South Eastern Coalfields Limited located in district Umaria (Madhya Pradesh)- For ToR

[IA/MP/CMIN/75372/2018, F No. J-11015/574/2007-IA.II(M)]

34.5.1 The proposal is for grant of ToR for Expansion of Kanchan Opencast Coal Mine Project of 0.65 MTPA to 2.7 MTPA(Peak) in an area of 749.31 ha of M/s South Eastern Coalfields Limited located in district Umaria (Madhya Pradesh)

34.5.2 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 project was accorded last EC issued for production capacity of 0.65 MTY (Normative) and 0.75 MTY (Peak) vide letter no. J-11015/574/2007-IA.II(M) dt. 29.03.2010.
- (ii) The Latitude and Longitude of the project site are 23° 20' 12" to 23° 20' 50" North Longitude 80° 50' 50" to 80° 52' 41" East respectively. GSI Topo-sheet Number:64A/15.
- (iii) Joint Venture: No Joint Venture
- (iv) Coal Linkage : Thermal Power Stations
- (v) Employment generated / to be generated: 258 No.
- (vi) Benefits of the project: This coal Mine will go a long way in fulfilling the demand nation's electricity and other coal based industries, apart from earning revenue for the government. Opportunity of employment for the project affected villagers and allied industries.
- (vii) The land usage of the project will be as follows:

S.No.	Type of land use	Area(in Ha)
1	AGRICULTURAL LAND	619.048
2	FOREST LAND	37.231
3	WASTE LAND	78.175
4	GRAZING LAND	5.043
5	SURFACE WATER BODIES	9.813
	TOTAL	749.31

Pre Mining:

S N	Land Use	Within ML Area (Ha)	Outside ML Area (Ha)	Total (Ha)
1	Agricultural land	581.033	38.015	619.048
2	Forest land	37.231	Nil	37.231
3	Waste Land	60.283	17.892	78.175
4	Grazing Land	4.980	0.063	5.043
5	Surface Water Bodies	9.813	Nil	9.813
6	Settlements	Nil	Nil	Nil

7	Others (Specify): Infrastructure & colony	Nil	Nil	Nil
	TOTAL	693.34	55.97	749.31

Post Mining:

S No	Pattern of utilization	Area (ha)
1.	Reclaimed External and Internal dumps	502.21
2.	Green belt/ Plantation	100.00
3.	Final void /Water body	49.00
4.	Built up area (Infrastructure, colony, roads, R & R site)	38.93
5.	Undisturbed area	59.17
	Total	749.31

Core area

S N.	Particulars	Forest land (ha.)	Tenancy land (ha.)	Government Land (Ha.)					Grand Total (ha.)
				Grazing land	Waste land	Water body	Others	Total	
1	Quarry area	37.021	376.148	-	76.831	-	-	76.831	490
2	Area for Top Soil	-	-	-	-	-	-	-	-
3	External dump	0	58.87	-	1.344	0.996	-	2.34	61.21
4	Infrastructure, Roads etc	-	6.0	-	-	-	-	-	6.0
5	Residential Colony	-	-	-	-	-	-	-	-
6	R & R site	-	32.93	-	-	-	-	-	32.93
7	Explosive magazine	-	-	-	-	-	-	-	-
8	Nala Diversion, if any	-	-	-	-	-	-	-	-
9	Safety Zone	0.21	145.10	5.043	-	8.817	-	13.86	159.17
	Total Land (in ha)	37.231	619.048	5.043	78.175	9.813		93.031	749.31

(viii) Total geological reserve is 32.6025 MT. The mineable reserve 25.84 MT, extractable reserve is 25.84 MT. The per cent of extraction would be 100 %.

(ix) The coal grade is G-6. The stripping ratio is 9.60Cum/tonne. The average Gradient is 1 in 12. There will be 6 seams with thickness ranging upto 6.16 m.

(x) Total estimated water requirement is 0.42ML/day. The level of ground water ranges from 2.2 m to 8.50 m.

- (xi) The method of mining would be Opencast. (Coal- surface miner with front end loader and dumper; OB- Shovel and dumper combination.)
- (xii) There are 6 No of seams.
- (xiii) There will be two External OB dump shall be created during the initial years of mining with Quantity of 18.77 Mcum in an area of 61.21 ha with height of 60 m above the surface level and two internal dump with Quantity of 229.23 Mcum in an area of 441.00 ha with height of 60 m above the surface level.
- (xiv) The final mine void would be in 49 ha with depth varying up to 121 m and the Total quarry area is 490 ha. Backfilled quarry area of 441 ha shall be reclaimed with plantation. A void of 49 ha with depth varying upto 121 m which is proposed to be converted into a water body
- (xv) The seasonal data for ambient air quality has been documented and all results at all stations are within prescribed limits.
- (xvi) The life of mine is 15 Years.
- (xvii) Transportation: Coal transportation in pit by Trucks, Surface to Siding by trucks and loading at siding to consumers by railway and to local consumers by Trucks.
- (xviii) There is R & R involved. There are 755 PAFs.
- (xix) Cost: Total capital cost of the project is Rs. 371.04 Crores. CSR Cost: 2% of the average net profit of the Company for the three immediate preceding financial years or Rs.2.00 per tonne of coal production of previous year whichever is higher. R&R Cost Rs.70.16 Crores. Environmental Management Cost Rs.99.70 Crores).
- (xx) Water body: Ghorchat nallah is flowing on the North side of the mine boundary and Lehanganallah is flowing on the east side of the mine boundary
- (xxi) Approvals: Ground water clearance obtained on 09.04.2003 and online application for issuance of fresh NOC from CGWA has been submitted on 22.12.2017. Project Report of Kanchan Opencast Expn. Project (0.65 MTPA to 2.0 MTPA) was approved by SECL Board in its 230rd meeting held on 17/12/2014. Mine closure plan is an integral part of Project Report.
- (xxii) Wildlife issues: No wildlife sanctuary is there within 10Kms radius from the mine boundary. Although, wildlife conservation plan is under preparation at TFRI, Jabalpur.
- (xxiii) Forestry issues: Total forest area involved 37.231 ha, for which application has been made on line 16th June 2016 for 6.081 Ha and on 21st Aug 2017 for 31.15 ha to obtain stage-I FC. Forest clearance is awaited.
- (xxiv) Total afforestation plan shall be implemented covering an area of 502.21ha at the end of mining. Green Belt over an area of 100 ha. Density of tree plantation 2500 trees/ ha of plants.
- (xxv) There are no court cases/violation pending with the project
- (xxvi) Public Hearing for the last EC was held on 12.02.2009.

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

The proposal is for grant of ToR to the project for expansion of Kanchan Opencast Coal Mine from 0.65 MTPA to 2.7 MTPA (Peak) of M/s South Eastern Coalfields Limited located in an area of 749.31 ha in village & tehsil Bandavgarhin District Umaria (Madhya Pradesh).

The Ministry had earlier granted EC to the expansion project of Kanchan Opencast Coal Mine from 0.32 MTPA to 0.65 MTPA (Normative)/0.75 MTPA (Peak) in an area of 203.93 ha (includes 32.043 ha of forest land) vide letter dated 29th March, 2010.

With the proposed increase in mine lease area from 203.93 ha to 749.31 ha, forest land of 37.231 ha needs to be diverted. Proposals have been submitted for diversion of forest land of 6.081 ha and 31.15 ha vide letter dated 16th September, 2016 & 31st August, 2017 respectively.

Project Report along with mine closure plan for 2.0 MTPA was approved by SECL Board on 17th December, 2014.

The mine is operational. Consent to Operate for the project was issued/renewed on 2nd August, 2016 and is valid up to 31st March, 2019.

There has been no excess coal production from the sanctioned capacity since the grant of environmental clearance dated 29th March, 2010. However, project proponent has reported an excess coal production 0.043 MTPA of the sanctioned capacity during 2008-09.

34.5.4 *The Committee, after detailed deliberations, recommended the proposal for grant of ToR to the project for expansion of Kanchan Opencast Coal Mine of 0.65 MTPA to 2.7 MTPA (Peak) in an area of 749.31 ha of M/s South Eastern Coalfields Limited located in District Umaria (Madhya Pradesh), and for preparation of EIA/EMP reports with public consultation subject to compliance of all conditions as specified/notified in the standard ToR applicable for opencast coal mines, along with the additional conditions as under: -*

- (i) Stage-I forest clearance for total forest land of 37.231 ha shall be obtained to effect diversion of the same for non-forestry purposes.*
- (ii) For proper baseline air quality assessment, adequate monitoring stations (4-5 nos.) in the downwind areas need to be set up and included in the air quality modeling.*
- (iii) Ecological restoration and mine reclamation plan to be prepared with afforestation of local/native species found in the area.*

Agenda No.34.6

Amrapali Opencast Coal Mine Project of 12 MTPA in an area of 619.87 ha of M/s Central Coalfields Limited located in District Chatra (Jharkhand) - For ToR

[IA/JH/CMIN/75225/2018, F No. J-11015/109/2003-IA-II(M)]

34.6.1 The proposal is for grant of ToR for Amrapali Opencast Coal Mine Project of 12 MTPA in an area of 619.87 ha of M/s Central Coalfields Limited located in district Chatra (Jharkhand)

34.6.2 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 project for Amrapali OCP with capacity 12 MTPA was given EC vide letter dated 3rd January, 2006 under the provisions of the EIA Notification, 1994.*
- (ii) Project Report of Amrapali OCP was approved by CCL Board vide letter dated 23rd February, 2012 for an initial capital investment of Rs. 858.11 crores. Pre-feasibility report for present proposal (12 MTPA capacity & 619.87 ha project area) has been prepared by CMPDI.*
- (iii) Public hearing was held on 02.04.2003 and baseline data was generated during the period March to May 2017.*

(iv) MoEF&CC through its notification vide no: S.O 1530 (E) dt. 16.04.2018 has directed that "The mining projects which were granted EC under EIA notification 1994 and but not obtained EC for expansion/ modernization/ amendment under the EIA notification 2006 shall make an application in Form I within six months from the date of issue of this notification for grant of EC under the provisions of the EIA notification, 2006".

(v) Therefore, present proposal is for fresh EC under EIA Notification, 2006, applied as per MoEF&CC Notification S.O. 1530 (E) dated 16th April, 2018 with the same capacity of 12 MTPA and project area of 619.87 Ha.

(vi) Latitude and longitude of the project site are 230 47' 40" to 230 53'38"N latitude 840 55'35" to 850 02'07" E longitude.

(vii) Joint Venture:NoJointVenture

(viii) CoalLinkage:Basket linkage, at present coal is being transported through Balumath railway siding. A new railway siding, Amrapali siding adjacent to the mine boundary is under commissioning. In future, it is proposed to dispatch coal through Amrapali railway siding.

(ix) Benefits of the project: Improvements in Physical Infrastructure; Improvements in Social Infrastructure; Increase in Employment Potential; Contribution to the Exchequer; Meet energy and steel sector requirement; Productive utilization of existing manpower of project

(x) Land usage of the project will be as follows

(xi) Land use details:

Description	Forest Area in ha.	Non-Forest Area in ha.	Total Area in ha.
Quarry	392.75	32.47	425.22
Dump	60.14	29.02	89.16
Nala Diversion	2.85	0.25	3.10
WORKSHOP	14.48	0	14.48
CHP	6.27	0	6.27
SUB STN./OFFICE	6.00	0	6.00
HAUL ROAD	30.00	4.00	34.00
SAFETY ZONE	4.70	14.22	18.92
Embankment/Garland Drain/Diversion of Public Road	14.45	8.27	22.72
Total	531.64	88.23	619.87

(xii) Total geological reserve is 486.50 MTe in Amrapali Block and 203.31 Mtes in Kishanpur Block. The mineable reserve is 124.79 MT, extractable reserve is 124.79MT. The percent of extraction would be 100%.

(xiii) The coal grade is G-11. The stripping ratio is 1.004 Cum/tonne. The average Gradient is 3-7 deg. There will be 08 seams with thickness ranging as given below.

Sl.	Particulars	Unit	Sections	
			Eastern	Western
I.	Thickness of Coal Seams (Ex- band thickness)	m		
1	I (B.)	m	4-8	6-10
2	I (M.)	m	5-7	6-7
3	I (T)	m	3-8	2-4

4	I (C)	m	14-20	-
5	II (B.)	m	1-2	1-2
6	II (T)	m	1-2	1-2
7	III (C)	m	6-10	6-10
8	IV	m	4-6	3-6

(xiv) Total estimated water requirement is 0.635 MGD (Potable:0.144MGPD ;Industrial:0.491MGPD).The level of groundwater ranges Pre Monsoon:3-12 m; Post Monsoon: 0.33-6 m.

(xv) The Method of mining would be Opencast method of mining with Surface miner and shovel-dumper combination.

(xvi) There is One existing external OB dump with proposed Quantity of 41.10 Mm³(24.23 Mm³ OB already stored)in an area of 89.16 ha with height of 60 meter above the ground level and proposed backfilled Quantity of 121.82 M.m³.

(xvii) Total Quarry area is 425.22 Ha. The final mine void would be in 153.50 ha with depth an average upto 90 m below GL. Backfilled quarry area of 271.71 ha shall be reclaimed with plantation.

(xviii) The seasonal data for ambient air quality has been documented for the Pre Monsoon - 2017, and all results at all stations are within prescribed limits.

(xix) The life of mine is 11 years as on April 2018.

(xx) Transportation: Coal transportation in pit by Rear dumpers; Surface to Siding by Trucks; siding at loading by payloader.

(xxi) There is no R & R involved for the proposed project area.

(xxii) Cost: Total capital cost of the project is Rs.858.11 Crores. CSR Cost As per CSR policy & Companies Act, 2013. Environmental Management Cost Rs 14.98 Crore.

(xxiii) Water body: Chundru and Barki rivers flowing west to east and north to south respectively control the drainage of the block. The Barki River marks the eastern boundary of the property with a safe distance of about 100 mtrs.

(xxiv) Wildlife issues: There are no national Parks, wildlife sanctuary, biosphere reserves found in the 10 km buffer zone.

(xxv) Forestry issues: 531.64 ha of Forest land involved in the proposed project area has obtained Stage II clearance vide no: F.No.8-48/2008-FC Dt.12.10.2010.

(xxvi) There are no court cases/violation pending with the project proponent.

(xxvii) Public Hearing was held on 02.04.2003.

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

The proposal is for grant of ToR to the Amrapali Opencast Coal Mine Project of 12 MTPA in an area of 619.87 ha of M/s Central Coalfields Limited located in district Chatra (Jharkhand).

The Ministry had earlier granted EC to the project of Amrapali Opencast Coal Mine 12 MTPA in total project area of 1426.08 ha vide letter dated 3rd January, 2006 as per EIA Notification, 1994.

Public hearing was held on 2nd April, 2003 and baseline data was generated during the period March to May 2017.

Total forest land within the project area is 531.64 ha and Stage II clearance has been granted vide letter No: F.No.8-48/2008-FC dated 12th October, 2010.

Present proposal is for fresh EC under EIA notification, 2006, applied as per MoEF&CC notification no: S.O 1530 (E) dt. 16.04.2018 with the same capacity of 12 MTPA and project area of 619.87 Ha.

34.6.4 *The EAC, after detailed deliberations and for the present, desired for additional information in respect of the following:-*

- (i) *Public notice to be issued in leading newspapers (one national and two local) for information of the stakeholders about commencement of the project and present coal mining operations of capacity 3.50 MTPA in mine lease area of 944.65 ha, inviting comments and their redressal,*
- (ii) *Mining Plan and the Mine Closure Plan duly approved by the competent authority,*
- (iii) *Forest clearance for diversion of the forest land of 531.64 ha for non-forestry purposes.*
- (iv) *Compliance status of the conditions stipulated in the environmental clearance dated 3rd January, 2006 from the Regional Office at Ranchi,*
- (v) *Consent to operate from the State Pollution Control Board for the present mining operations,*
- (vi) *Redressal of issues raised during the last public hearing conducted by the SPCB on 2nd April, 2003, along with the R&R details duly certified by the State Government,*
- (vii) *Details of court cases and the compliance status,*

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

Agenda No.34.7

North Urimari Opencast Coal Mine Project of 3 MTPA in an area of 523.06 ha of M/s Central Coalfields Limited located in District Hazaribagh (Jharkhand) - For ToR

[IA/JH/CMIN/75208/2018, F No.J-11015/307/2005-IA-II(M)]

34.7.1 The proposal is for grant of ToR for North Urimari Opencast Coal Mine Project of 3 MTPA in an area of 523.06ha of M/s Central Coalfields Limited located in District Hazaribagh (Jharkhand).

34.7.2 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 North Urimari OCP with capacity 3 MTPA was given EC vide J-11015/307/2005-IA.II(M) dt: 08.02.2006.
- (ii) The PR of North Urimari OCP was approved by CCL Board on 31.12.2007 for 3.0 MTY Capacity. Mine closure plan was approved in October 2012.
- (iii) MoEF&CC through its notification vide no: S.O 1530 (E) dt. 16.04.2018 has directed that "The mining projects which were granted EC under EIA notification 1994 and but not obtained EC for expansion/ modernization/ amendment under the EIA notification 2006 shall make an application in Form I within six months from the date of issue of this notification for grant of EC under the provisions of the EIA notification, 2006".
- (iv) Therefore, present proposal is for fresh EC under EIA notification 2006, applied as per MoEF&CC notification no: S.O 1530 (E) dt. 16.04.2018 with the same capacity of 03 MTPA and project area of 523.06 Ha (18.92 ha of Colony outside core zone).
- (v) Latitude and longitude of the project site are 23°43' 24.33"N to 23°42'06.00"N latitude & 86°16'08.95"E to 86°18'25.37"E longitude

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(vi) Joint Venture: No Joint Venture.

(vii) Coal Linkage: Coal linkage to power sector, the coal from this project is being transported to Saunda D railway siding which is at a distance of 12 kms from the face of the quarry by tipping trucks. Also, a proposal for construction of 'North Urimari Railway siding is under process. Rites has started the work of Railway Siding.

(viii) Employment generated/to be generated: 236 already given. 17 Under process.

(ix) Benefits of the project: Improvements in Physical Infrastructure; Improvements in Social Infrastructure; Increase in Employment Potential; Contribution to the Exchequer; Meet energy and steel sector requirement; Productive utilization of existing man power of project

(x) Land usage of the project will be as follows:

Sl.	Item	Total (ha)
1	Quarry	254.4
2	External OB dump	168.95
3	Safety Zone	44.28
4	Haul road	4.5
5	Nalla diversion and garland drain	10.59
6	Space for industrial construction	21.42
7	Total leasehold boundary area	504.14
8	* Colony area	18.92
	Total Land	523.06

* Colony Area of 18.92 Ha is outside core zone.

*Total forest land involved in project area is 226.51 Ha has been acquired (Stage II) vide letter no: F. No. 8-54/2008-FC Dt. 03.08.2011.

(xi) The mineable reserve is 80.81 MT, extractable reserve is 80.81MT. The percent of extraction would be 100%.

(xii) The coal grade is G-8 The stripping ratio is 1.69 Cum/tonne. The average Gradient is 8.20 to 8.35 deg. There will be 15 seams with thickness ranging.

Sl. No.	Particulars	Unit	West Quarry	East Quarry
A	Seam Thickness			
1	Argada 'B'	M	-	6.1-8.6
2	Argada A+B	M	9.0-19.1	13.4-22.6
3	Argada 'A'	M	-	5.7-13.2
4	Argada Bottom Lower Split	M	0.5-1.3	-
5	Argada Bottom Combined	M	3.5-6.5	4.3-6.6
6	Argada Bottom Upper split	M	0.7-3.2	-
7	Argada Middle + Bottom	M	10.0-18.4	12.7-21.1

8	Argada Middle	M	6.5-11.9	9.8-15.9
9	Argada Top Lower Split	M	0.9-2.3	1.0-2.6
10	Argada Top, Combined	M	1.2-5.6	2.0-4.3
11	Argada Top, Upper Split	M	0.9-3.7	0.6-2.9
12	Upper sirka(Bottom)	M	0.44-1.61	0.44-1.15
13	Bansgarha (C+D)	M	0.27-1.51	
14	Bansgarha	M	2.26-3.45	
15	Hathidhari	M	2.50-4.11	

(xiii) Total estimated water requirement is 0.249 MGD (Potable:0.127MGPD;Industrial:0.122 MGD).

(xiv) The Method of mining would be Opencast method of mining with shovel-dumper combination.

(xv) There is One external OB dump with Quantity of 59.60 M.m3in an area of 168.95 ha with height of 60 meter above the ground level and backfilled Quantity of 77.00 M.m3.

(xvi) The ambient air quality data is being generated twice every fortnight and all results are within prescribed limit.

(xvii) The life of mine is 28 years as on April 2018.

(xviii) Transportation :Coal transportation in-pit by Rear dumpers; Surface to Siding by Trucks; siding at loading by pay loader.

(xix) There is R & R involved: Total 245 PAFS. Employment to 236 PAPs has been given. Further employment for 17 PAPs is under process.

(xx) Cost: Total capital cost of the project is Rs.179.87 Crores. CSR Cost As per CSRpolicy & Companies Act, 2013. Environmental Management Cost Rs 33.98 Crore.

(xxi) Water body: Damodar river constitute the main drainage channel of the area and forms part of the southern boundary of the block. The two main nalas are Potanga in the center of the block and Tilaiya Nala forming the western boundary of the block. These nalas have a general N-S trend flowing towards south and discharging their contents in Damodar river.

(xxii) Wildlife issues: There are no nationalParks,wildlife sanctuary, biosphere reserves found in the10kmbuffer zone.

(xxiii) Forestry issues: Total forest land involved in project area is 226.51 ha. the same has been acquired (Stage II) vide letter no: F. No. 8-54/2008-FC Dt. 03.08.2011.

(xxiv) There are no court cases/violation pending with the project proponent.

(xxv) Public Hearing was held on 08.10.2004at Guest House, Urimari Project, Post- Sayal D, District Hazaribagh. The issues raised in the PH includes possibility of water and air pollution and reasonable compensation;

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

The proposal is for grant of ToR to the North Urimari Opencast Coal Mine Project of 3 MTPA in an area of 523.06ha of M/s Central Coalfields Limited located in District Hazaribagh (Jharkhand).

The Ministry had earlier granted EC to the project of North Urimari Opencast Coal Mine 3 MTPA in total project area of 523.06ha vide letter No. J-11015/307/2005-IA.II(M) dated 8th February, 2006 as per EIA Notification, 1994.

Public hearing was held on 8th August, 2004.

Total forest land within the project area is 226.51 ha and Stage II clearance has been granted vide letter No: F.No. 8-54/2008-FC dated 3rd August, 2011

The PR of North Urimari OCP was approved by CCL Board on 31st December, 2007 for 3.0 MTY Capacity. Mine closure plan was approved in October 2012.

Present proposal is for fresh EC under EIA notification 2006, applied as per MoEF&CC notification no: S.O 1530 (E) dt. 16.04.2018 with the same capacity of 3 MTPA and project area of 523.06 ha (Including 18.92 ha of Colony outside core zone).

34.7.4 *The EAC, after detailed deliberations and for the present, desired for additional information in respect of the following:-*

- (i) Public notice to be issued in leading newspapers (one national and two local) for information of the stakeholders about commencement of the project and present coal mining operations of capacity 3 MTPA in mine lease area of 523.06 ha, inviting comments and their redressal,*
- (ii) Mining Plan and the Mine Closure Plan duly approved by the competent authority,*
- (iii) Forest clearance for diversion of the forest land of 226.51 ha for non-forestry purposes.*
- (iv) Compliance status of the conditions stipulated in the environmental clearance dated 8th February, 2006 from the Regional Office at Ranchi,*
- (v) Consent to operate from the State Pollution Control Board for the present mining operations,*
- (vi) Redressal of issues raised during the last public hearing conducted by the SPCB on 8th October, 2004, along with the R&R details duly certified by the State Government,*
- (vii) Details of court cases and the compliance status,*

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

Agenda No.34.8

Umrer Opencast coal mining Project of 3.50 MTPA in an area of 944.65 ha of M/s Western Coalfields Limited located in Tehsil Umrer, District Nagpur(Maharashtra) - For Revalidation of EC

[IA/MH/CMIN/75384/2005, F No. J-11015/86/2005-IA.II(M)]

34.8.1 The proposal is for grant of revalidation of Environmental Clearance for Umrer Opencast coal mining Project of 3.50 MTPA in an area of 944.65 ha of M/s Western Coalfields Limited located in Tehsil Umrer, District Nagpur, (Maharashtra)

34.8.2 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) Umrer OC mine is located in Umrer Tahsil, Nagpur district of Maharashtra State and is under the administrative control of Umrer Area of Western Coalfields Ltd. Mine was opened in Umrer block of Umrer Coalfields in Nagpur district. The mine is situated at 45 K.M. South–East of Nagpur and easily approachable by all Maharashtra State High way No. 9. For coal transport this mine is connected by a broad gauge railway siding to Butibori Railway Station in Nagpur- Wardha Section of Central Railway.

(ii) The project lies between Latitudes: 20°50'56" to 20°52'58" N and Longitudes: 79°15'55" to 79°18'9" E. This area is covered by Survey of India Topo Sheet No. 55P/5.

(iii) Umrer OC is an existing opencast coal mine of WCL started in 1962. EC for Umrer OC for production capacity of 3.50 MTPA within ML area of 944.65 ha was accorded vide letter dated 20th May, 2005.

(iv) The geo-mining parameters of existing mine are placed below:-

Sl.No	PARTICULARS	TOTAL QUARRY
1	Area of the Quarry	
a)	On floor (Ha.)	211.83
b)	On surface (Ha.)	319.6
2	Depth (m)	
a)	Initial	26
b)	Final	145
3	Average gradient of Seam	1 in 2 to 1 in 12
4	Average thickness of seam (m)	
	Seam II & I	17
	Seam III	5.5
	Seam IV	7.5
5	Average Strike length (m)	2800
6	Width on surface (m) (Dip Rise)	1600
7	Width on floor (m) (Dip Rise)	600
8	Coal Quality	G-8 / G-9
9	Balance Mineable reserves (Mt) as on 1.4.2018	11.68
10	Balance OB(Cum) as on 1.4.2018	16.97
11	Average S.R. m ³ /t.	1.453

(v) The remaining minable reserves as on 1st April, 2018 are 11.68 Mt. The life of mine on rated capacity of 3.50 MTPA will be 4 Years.

(vi) The land usage of the project will be as follows:

Pre-mining:

S.N.	LAND USE	Within ML Area (ha)	Outside ML Area (ha)	Total
1	Agricultural land	870.90	-	870.90
2	Forest land	-	-	Nil
3	Waste land	73.75	-	73.75
4	Grazing land	-	-	-
5	Surface water bodies	-	-	-
6	Settlements	-	-	-
7	Others (specify)	-	-	-
TOTAL				944.65

During Mining:

Sl No	Particulars	Existing Land Use as on 1 st April,2018 (Ha)	Land Use during Mining (Ha)
1	Quarry area	319.60	362.00
2	External OB Dump	139.52*	139.52*
3	Infrastructure including Road and Colony	227.69	227.69
4	Blasting Zone and Rationalization	257.84	215.44
	Total	944.65	944.65

*The area includes 32.88 ha External Dump of Makardhokra-II OC also as recorded in EC granted to Makardhokra-II OC dated 10 Feb, 2009.

Post-mining :

S.N.	Land use during mining	Land use (ha)				
		Plantation	Water Body	Public use	Undisturbed	Total
1	External OB Dump	139.52	-	-	-	139.52
2	Top soil dump	-	-	-	-	-
3	Excavation	150.0	95.52	-	116.48*	362.00
4	Built up area including Road & Township	20.0	-	-	207.69	227.69
5	Green Belt	-	-	-	-	-
6	Undisturbed Area	88.36	-	-	127.08	215.44
	Total	397.88	95.52	-	451.25	944.65

116.48* land will be technically reclaimed and stabilized.

- (vii) The existing mine working will be limited within 944.65 ha.
- Remaining Mineable Coal Reserves in MT (As on 31.03.2018): 11.68 Mt Stripping Ratio Cu.M./Te : 1.453 m³/t (Avg.)
 - Remaining Over Burden (Mm³) (as on 31.03.2018) : 16.97 Mm³
- (viii) The coal grade is Grade G-8/G-9.
- (ix) Total estimated water requirement is 1126 m³/day. The level of ground water ranges is given below:

Pre monsoon period.	Core Zone	5.35 m to 7.20 m
	Buffer zone	2.20 m to 10.40 m
Post monsoon period. Nov.(2016)	Core Zone	3.35 m to 3.80 m
	Buffer zone	(vi) to 10.20 m

- (x) The method of mining would continue to be Opencast with Shovel-Dumper combination.
- (xi) There are 5 existing external OB dumps with Quantity of 42.213 Mm³ in an area of 106.64 ha with maximum height of 60 meter. The area under external OB dump further adds 32.88 ha of External Dump of Makardhokra-II OC also as recorded in EC granted to Makardhokra-II OC dated 10 Feb, 2009. Thus the total area is 139.52 ha with 6 nos of external OB dumps. There is also 1 no (one) internal dump with Quantity of 165.97 Mm³ in an area of 266.48 ha. Out of this 266.48 ha, 150 ha will be biologically reclaimed and remaining 116.48 ha will be technically reclaimed.
- (xii) The final mine void would be in 95.52 ha with maximum depth of 145 m.
- (xiii) Total quarry area is 362.0 ha. Out of total quarry area of 362.0 ha, 266.48 ha would be backfilled. Out of which 150 ha area shall be reclaimed with plantation. A void of 95.52 ha with depth 145 m which is proposed to be converted into a water body.
- (xiv) The life of mine is 4 Years at the normative capacity of 3.50 MTPA.
- (xv) Transportation: Coal transportation in pit by Dumpers, Surface to Siding through Dumpers and loading onto railway wagons by Pay Loaders.
- (xvi) The project does not involve R&R.
- (xvii) Cost: Total capital cost of the project is Rs. 186.65 Crores as on April, 2017. The Cost of Production: Rs 1065.48 per tonne, CSR cost :Rs. 2 per tonne, R&R Cost : Nil and Environmental Management cost: capital –Rs. 2.76 crores.
- (xviii) Approvals: Ground water clearance:- NOC for withdrawal of groundwater from CGWA has been applied vide 21-4/348/MH/MIN/2018 dated 13.06.2016 as per amended rules of 2012. The scheme (mining plan) of Umrer OC for increase in capacity from 2.34 MTPA to 3.50 MTPA within the existing ML area of 944.65 ha was approved by the Competent Authority of WCL vide communication no WCL/BD/SECTT/FD-295/2005/1382 dated 23/28-03-2005. Mine closure plan was approved by WCL Board on 29-11-2014.
- (xix) Wildlife issues: No Forest Land Involved.
- (xx) Public Hearing conducted on 23.09.2004 for 944.65 ha land.
- (xxi) Total afforestation plan shall be implemented covering an area of 397.88 ha at the post-mining. Density of tree plantation is 2500 trees/ ha of plants.
- (xxii) There is no court cases/violation pending with the project proponent.
- (xxiii) An Escrow Account of Umrer OC for mine closure activity has been opened against the existing provisions. The estimated mine closure fund of Rs 79.6501 crore has been deposited in escrow account in 5 years period from 2012-13 to 2016-17. As on 31.03.2017 total corpus in escrow account is Rs 93.2447 crores including the interest upto 31.03.2017.

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

The proposal is for revalidation of environmental clearance to Umrer OC mine of capacity 3.5 MTPA by M/s Western Coalfields Ltd within existing ML area of 944.65 ha in Village Kanwa, Tehsil Umrer, District Nagpur (Maharashtra) in compliance of the Ministry's Notification S.O. No.1530 (E) dated 6th April, 2018.

Earlier, the Environmental Clearance to Umrer OC mine for its expansion from 2.34 MTPA to 3.5 MTPA in a total area of 944.65 Ha, was accorded by the Ministry vide letter dated 20th May, 2005, based on the public hearing conducted by the State PCB on 23rd September, 2004 at Community Bachat Sabhagriha, Collectorate, Nagpur under the chairmanship of District Collector Nagpur.

Certificate of compliance against the existing EC dated 20th May, 2005 has been obtained from MoEF&CC, Regional Office located at Nagpur, vide letter dated 22.06.2018. Out of 32 conditions, MOM 34th EAC Coal 24th July 2018

only 5 are partly complied & 6 agree upon. The action taken report has been submitted to RO, MoEF& CC, Nagpur on 2nd July, 2018.

Renewal of Consent to operate for the existing capacity (3.50 MTPA) has been approved by Consent Appraisal Committee of MPCB with validity upto 31st March, 2021.

34.8.4 *The EAC, after detailed deliberations and for the present, desired for additional information in respect of the following:-*

- (i) Public notice to be issued in leading newspapers (one national and two local) for information of the stakeholders about commencement of the project and present coal mining operations of capacity 3.50 MTPA in mine lease area of 944.65 ha, inviting comments and their redressal,*
- (ii) Valid Mining Plan and the Mine Closure Plan duly approved by the competent authority,*
- (iii) Compliance status of the conditions stipulated in the environmental clearance dated 20th May, 2005 from the Regional Office at Nagpur,*
- (iv) Consent to operate from the State Pollution Control Board for the present mining operations,*
- (v) Redressal of issues raised during the last public hearing conducted by the SPCB on 23rd September, 2004, along with the R&R details duly certified by the State Government,*
- (vi) Details of court cases and the compliance status,*

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

Agenda No.34.9

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

[IA/MH/CMIN/71601/2017, F No. J- 11015/106/2009-IA.II(M)]

34.9.1 The proposal is for amendment in EC validity accorded to Expansion of Gondegaon extension opencast coal mine project (Amalgamated Gondegaon Ghatrohan OC Mine) for expansion in capacity from 2.5 MTPA to 3.5 MTPA of M/s Western Coalfields Limited within existing total project area of 845.74 Ha within the EC area of 917ha located in District Nagpur (Maharashtra).

34.9.2. The proposal was considered by the EAC in its 24th meeting of the EAC held on 11.01.2018, wherein the Committee after detailed deliberations, recommended the project for grant of environmental clearance, exempting requirement of preparation of EIA/EMP and public consultation, to the expansion of Gondegaon Extension Opencast Coal Mine Project from 2.50 MTPA to 3.50 MTPA by M/s Western Coalfields Ltd in a total project area of 917 Ha (mine lease area 845.74 Ha) located in village Gondegaon, Tehsil Parseoni, District Nagpur (Maharashtra) for a period of one year, subject to the compliance of the terms & conditions:-

- (i) Mitigative measures to be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient numbers of water sprinklers. Mist type mobile sprayers/sprinklers shall be deployed for the project.

- (ii) Regular monitoring of occupational safety and other health hazards of all employees including outsourced workers and the corrective actions shall be ensured. Report in this regard be submitted to the Regional Office of the Ministry.
- (iii) Controlled blasting techniques should be adopted to control ground vibration and fly rocks.
- (iv) Persons of nearby villages shall be given training for their livelihood and skill development.
- (v) To ensure health and welfare of nearby villages, regular medical camps shall be organized and report shall be submitted to the Regional Office of the Ministry.
- (vi) Wind barrier wall/screen and vertical greenery system, green belt, dust suppression arrangement at railway siding to be installed.
- (vii) Three tier multi-species green belt of not less than 7.5 m width should be developed all along the project to mitigate/check the dust pollution. Only native species to be used for plantation/greenbelt development.
- (viii) In view of the mining potential of the area and the prevailing environmental concerns, carrying capacity of the riverine eco-system shall be studied through some expert agencies to assess impact on the environmental components.
- (ix) A mitigation plan based on the study to be submitted to the MOEF&CC Regional Office/SPCB and displayed on company's website.

34.9.3 Subsequently EC for the aforesaid proposal was accorded by this Ministry vide letter no.J-11015/106/2009-IA.II(M) dated 14th March, 2018 with the above mentioned conditions along with standard conditions.

34.9.4 In response to the aforesaid EC dated 14th March, 2018 which is valid for a period of one year, a detailed Action Taken Report (ATR) has been submitted by the PP and the summary of details submitted by the project proponent and/or as informed during the meeting, are as under:-

S. No.	Observations of the EAC meeting	ATR by Project Proponent
1	Mitigative measures to be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient numbers of water sprinklers. Mist type mobile sprayers/sprinklers shall be deployed for the project	<p>The following mitigative measures are being taken to control dust and other fugitive emissions:-</p> <ul style="list-style-type: none"> • 10 nos of fixed sprinklers are in operation near weigh bridge, along coal transportation road and portable sprinklers around coal stock yards. • 3 Nos of mobile tankers with 28 KL, 12 KL & 8KL respectively are deployed for dust suppression on haul roads, coal transportation roads etc. • Coal transportation road of 8.6 km (approx.) is black topped with thick avenue plantation for containing fugitive emissions. • Internal roads of 3 km (approx.) are concretized / black topped. • 1 no. of mechanical sweeper is in operation. • Till date 3,93,905 Nos of saplings are planted in the project area covering an area of 121 ha for air pollution control. • All the trucks carrying coal outside the project are tarpaulin covered. • 2 nos of CHPs in the mine are provided with enclosures,

		<p>side</p> <ul style="list-style-type: none"> • Claddings and sprinklers to contain air pollution.
2	Regular monitoring of occupational safety and other health hazards of all employees including outsourced workers and the corrective actions shall be ensured. Report in this regard be submitted to the Regional Office of the Ministry	<p>As per the statutory requirements, in Gondegaon OC following the DGMS guidelines, Initial Medical Examination (IME) is carried out for all the employees (including HoE/Outsourced) working in the mine and subsequent to that, Periodical Medical Examination (PME) is carried out for every 5 years and remedial action taken accordingly.</p> <p>The reports of same are submitted to the DGMS and henceforth the same will be submitted to Regional Office, MoEF& CC along with half yearly compliance report.</p>
3	Controlled blasting techniques should be adopted to control ground vibration and fly rocks.	In Gondegaon OC, controlled blasting with delay detonation as per DGMS guidelines is carried out to control ground vibration and fly rocks and same will be continued during the balance life of the mine.
4	Persons of nearby villages shall be given training for their livelihood and skill development	PAPs (Project affected persons), persons nearby are provided with skill development training and conducts Entrepreneurship development programs on regular basis at vocational training centers of WCL. The details of the above has been submitted to Ministry.
5	To ensure health and welfare of nearby villages, regular medical camps shall be organized and report shall be submitted to the Regional Office of the Ministry	Health and welfare programs are conducted on regular basis by Medical Department and the details of Health Camps organised by Nagpur Area during 2017-18 has been submitted to the Ministry.
6	Wind barrier wall/screen and vertical greenery system, green belt, dust suppression arrangement at railway siding to be installed	<p>At present to control dust at the railway siding, control measures like truck mounted (mobile) mist spray system has been installed. Additionally green barrier has also been developed.</p> <p>It may be mentioned here that the installation of Pipe Conveyor system for transport of Coal from five OC mines of WCL including Gondegaon has also been started by MAHAGENCO. After commissioning of the same, the transport of coal by railway siding will be completely eliminated.</p>
7	Three tier multi-species green belt of not less than 7.5 m width should be developed all along the project to mitigate/check the dust	Till date 3,93,905 Nos of saplings are planted in the project area covering an area of 121 ha and as per the approved EMP, by the end of the mine life an area of 255 ha will be reclaimed biologically. Apart from regular plantation, avenue plantation along the coal transportation road of 8.6 km (approx.) was done

	pollution. Only native species to be used for plantation/greenbelt development	
8	In view of the mining potential of the area and the prevailing environmental concerns, carrying capacity of the riverine eco-system shall be studied through some expert agencies to assess impact on the environmental components	In order to assess the impacts due to mining activities on Riverine Eco-system of Pench-Kanhan River and mitigation plan for the same, a detailed report on the existing scenario comprising of all the mining operations vis-a-vis the impacts and existing mitigative measures has been prepared and submitted to the Ministry.
9	A mitigation plan based on the study to be submitted to the MOEF&CC Regional Office/SPCB and displayed on company's website	The mitigation Plan based on the above has also been submitted and the same will be displayed on web site once the same is approved.

34.9.5 During deliberations, the committee noted the following:-

The proposal is for environmental clearance to the project for expansion of Gondegaon Extension Opencast Coal Mine Project from 2.50 MTPA to 3.50 MTPA in a total area of 917 ha (mine lease area 845.74 ha) of M/s Western Coalfields Ltd located in village Gondegaon, Tehsil Parseoni, District Nagpur (Maharashtra). There is no forest land involved.

The proposal was earlier considered by the EAC in its 24th meeting held on 11th January, 2018 and based on their recommendations, environmental clearance was granted vide letter dated 14th March, 2018 for a period of one year with certain specific conditions as recommended by EAC.

The project proponent has submitted the action taken report against the terms and conditions stipulated in the said EC.

34.9.6 *The EAC, after detailed deliberations and for the present, desired for additional information in respect of the following:-*

- (i) EIA studies to be carried out with one season baseline data, and the Environment Management Plan to be prepared accordingly,*
- (ii) Redressal of issues raised during the last public hearing conducted by the SPCB on 26th April, 2005, along with the R&R details, if any, duly certified by the State Government,*
- (iii) Public notice to be issued in leading newspapers (one national and two local) for information of the stakeholders about commencement of the project and present coal mining operations of capacity 2.50 MTPA in mine lease area of 917 ha, inviting comments and their redressal,*

- (iv) *Compliance status of the conditions stipulated in the environmental clearance dated 14th March, 2018 from the Regional Office at Nagpur,*
(v) *Details of court cases and the compliance status,*

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

Agenda No.34.10

Discussion on any other item

Cluster 11 (comprising of 11 mixed mines) with combined production capacity of 10.90 MTPA of M/s Eastern Coalfields Limited in ML area of 4218 ha in Raniganj Coalfields, District Burdwan (West Bengal) - Amendment in EC

[IA/WB/CMIN/35633/2015, F No. J- 11015/245/2011-IA.II(M)]

34.10.1 The proposal is for amendment in environmental clearance to Cluster 11 (comprising of 11 mixed mines) with combined production capacity of 10.90 MTPA of M/s Eastern Coalfields Limited in ML area of 4218 ha in Raniganj Coalfields, District Burdwan (West Bengal). The EC was amended on 29th November, 2016 for revision in peak production capacity from 10.90 MTPA to 8.20 MTPA.

34.10.2 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) New Kenda OCP is one of the mines of Cluster No.11 (Group of 11 OCP/UG mines), for which, environmental clearance was granted by the Ministry on 21st July 2015, subject to the following conditions:

Specific condition no.(iii) – The Socio-economic study conducted by PP needs to be authenticated by an institute of repute such as Indian Institute of Forest Management/XLRI, Jamshedpur.

Specific condition no.(xi) – Socio-economic Study to be carried out in order to establish the necessity of mining on New Kenda OC Patch. Presently EC is recommended to the cluster without the New Kenda OC Patch.

(ii) In compliance of the above specific conditions, the project proponent has submitted the socio-economic study prepared by the Indian Institute of Forest Management, Bhopal to establish the necessity of mining in New Kenda OCP.

34.10.3 *The EAC, after detailed deliberations, acknowledged the socio-economic study report submitted by the project proponent, and recommended for deletion of specific conditions no.(iii) & (xi) of the environmental clearance dated 21st July, 2015 and amending the said EC accordingly.*

PARTICIPANTS IN 34th EXPERT APPRAISAL COMMITTEE (EAC) (THERMAL & COAL MINING) MEETING HELD ON 24th JULY, 2018 ON COAL SECTOR PROJECTS.

Sl. No.	List Of Participants Expert Appraisal Committee (Coal Mining)	
1.	Dr. Navin Chandra	Chairman
2.	Dr. Narmada Prasad Shukla	Member
3.	Dr. Jai Krishna Pandey	Member
4.	Dr. G P Kundargi	Member
5.	Shri N. Mohan Karnat	Member
6.	Shri S.D.Vora	Member
7.	Shri N.S.Mondal	Member
8.	Prof. S K Gupta	Member
9.	Dr. R K Giri	Member
10.	Shri S. K. Shrivastva	Member Secretary

PARTICIPANTS IN 34th EXPERT APPRAISAL COMMITTEE (EAC) (THERMAL & COAL MINING) MEETING HELD ON 24th JULY, 2018 ON COAL SECTOR PROJECTS.

34.1 Parsa Opencast Coal Mine of M/s RRVUNL

1. Shri N.K.Kothari
2. Shri Prakash Israni
3. Shri N.K.Prasad
4. Shri G.V.Raghava Rao

34.2 Dinesh (Makardhokra-III) OCP of M/s WCL

34.8 Umrer OCP of M/s WCL

34.9 Gondegaon OCP of M/s WCL

1. Shri T.N.Jha
3. Shri R M Wanere
4. Shri Kaushik Chakravarty
5. Shri Shankar Subramanium
6. Shri U.S.Shah
7. Smt Sandeep Sharma

34.3 Jagannath OCP of M/s MCL

1. Shri O.P.Singh
2. Shri S.K.Srivastava
3. Shri M G Brahmaputra
4. Shri A.K.Singh
5. Shri G Srinivasn
6. Shri N.K.Singh
7. Shri C.Jayadev

34.4 Talabira –II & III of M/s NLC India

1. Shri V.Thangapandian
2. Shri S.C.Suman
3. Shri Raveesh N.Singh
4. Dr. M.Velan

34.5 Exp.of Kanchan OCP of M/s SECL

- 1 Shri K.Prasad
- 2.Shri S Srivastav
- 3.Shri A.S.Bapat
4. Shri Nirmal Kumar
- 5.Shri I D Narayan
- 6.Shri S.R.Tripathi
- 7.Shri Gholam Shahid
- 8.Shri Amarjeet Singh
- 9.Shri Pramod Kumar

34.6 Amrapali Opencast Coal Mining of M/s CCL

34.7 North Urimari Opencast Coal Mining of M/s CCL

1. Shri Virendra Kr.Srivastava
2. Shri A.K.Das
3. Shri J.Chakravorty
4. Shri R.Ranjan
5. Shri M.Kumar
6. Shri Lakshmi Deep

34.10 Discussion on any other item

Cluster No-XI of M/s ECL

- 1.Shri J.P.Gupta
- 2.Shri B.N.Prasad
- 3.Shri S.K.Bhawaria
- 4.Shri S.Chakravorty

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, PM2.5, SOx and NOx, 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.
- (xiv) One-season (other than monsoon) primary baseline data on environmental quality - air (PM10, PM2.5, SOx, NOx 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.
- (xv) 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.
- (xvi) 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.
- (xvii) 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.
- (xviii) 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.

- (xix) 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.
- (xx) Detailed water balance should be provided. The break-up of water requirement for the various mine operations should be given separately.
- (xxi) 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.
- (xxii) 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.
- (xxiii) Impact of blasting, noise and vibrations should be given.
- (xxiv) Impacts of mining on the AAQ and predictions based on modeling using the ISCST-3 (Revised) or latest model should be provided.
- (xxv) 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.
- (xxvi) 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.
- (xxvii) 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 28o 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.
- (xxviii) 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.
- (xxix) 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.
- (xxx) 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

(xxxii) 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)				TOTAL
		Plantation	Water Body	Public Use	Undisturbed	
1.	External OB Dump					
2.	Top soil Dump					

3.	Excavation					
4.	Roads					
5.	Built up area					
6.	Green Belt					
7.	Undisturbed Area					
	TOTAL					110

(xxxii) 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.

(xxxiii) 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.

(xxxiv) Risk Assessment and Disaster Preparedness and Management Plan should be provided.

(xxxv) Integration of the Env. Management Plan with measures for minimizing use of natural resources - water, land, energy, etc. should be carried out.

(xxxvi) Cost of EMP (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.

(xxxvii) 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.

(xxxviii) 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.

(xxxix) 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.

(xl) 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.

(xli) In built mechanism of self-monitoring of compliance of environmental regulations should be indicated.

(xlii) Status of any litigations/ court cases filed/pending on the project should be provided.

(xliii) 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.

(xliv) 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 Forest land (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, PM2.5, SOx, NOx 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.

31/07/2018

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

Subject: **Re: draft Minutes of the 34th meeting of the EAC held on 24th July, 2018** Date: 07/31/18 06:21 PM
To: "Dr. P R Sakhare" <sakhare.pr@nic.in>, From: navin chandra <navinchandrarrl@yahoo.com>
Srivastava Additional Director <sk.smree66@nic.in>,
"S.K Srivastava" <sk.smree66@gov.in>

31/07/2018

Dear Dr. Srivastava Ji,

I have gone through the draft of Minutes of the 34th meeting sent by you. It is in order and can now be uploaded to the website of MoEF&CC.

Regards,
(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

**34th EAC (THERMAL & COAL MINING PROJECTS) MEETING
SCHEDULED FOR 24th July, 2018.**

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: Tuesday: 24th July, 2018

- 34.1 Parsa Opencast Coal Mine Project of 5 MTPA and Pit Head Coal Washery of 5 MTPA of M/s Rajashtan Rajya Vidyut Utpadan Nigam Limited in a total area of 1252.447 ha at Hasdeo-Arand Coal Field in Districts Surguja & Surajpur (Chhattisgarh) - For further consideration of EC**

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

34.2 Dinesh (Makardhokra-III) Opencast Coal Mine Expansion Project from 3 MTPA to 4.5 MTPA of M/s Western Coalfields Limited in an area of 1636.97 ha located in District Nagpur (Maharashtra) - For further consideration of EC

[IA/MH/CMIN/20405/2011, F.No.J-11015/537/2008-IA.II(M)]

34.3 Jagannath Opencast Coal mine Expansion Project from 6.0 MTPA to 7.5 MTPA with increase in ML area from 430.736 ha to 553.946 ha of M/s Mahanadi Coalfields Ltd located in District Angul (Odisha) - For further consideration of EC

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

34.4 Talabira-II & III Opencast Coal Mining Project of 20 MTPA (Normative)/23 MTPA (Peak) in an area of 1914.063 ha M/s NLC India Limited (Formerly known as M/s Neyveli Lignite Corporation Limited) located in District Jharsuguda (Odisha)- For EC

[IA/OR/CMIN/75826/2018, F No. J-11015/215/2007-IA.II(M)]

34.5 Expansion of Kanchan Opencast Coal Mine Project of 0.65 MTPA to 2.7 MTPA(Peak) in an area of 749.31 ha of M/s South Eastern Coalfields Limited located in district Umari (Madhya Pradesh) - For TOR

[IA/MP/CMIN/75372/2018, F No. J-11015/574/2007-IA.II(M)]

34.6 Amrapali Opencast Coal Mine Project of 12 MTPA in an area of 619.87 ha of M/s Central Coalfields Limited located in district Chatra (Jharkhand) - For TOR

[IA/JH/CMIN/75225/2018, F No. J-11015/109/2003-IA-II(M)]

34.7 North Urimari Opencast Coal Mine Project of 3 MTPA in an area of 535.82 ha of M/s Central Coalfields Limited located in district Hazaribagh (Jharkhand) - For TOR

[IA/JH/CMIN/75208/2018, F No.J-11015/307/2005-IA-II(M)]

34.8 Umrer Opencast coal mining Project of 3.50 MTPA in an area of 944.65 ha of M/s Western Coalfields Limited located in Tehsil Umrer, District Nagpur, (Maharashtra) - For Revalidation of EC

[IA/MH/CMIN/75384/2005, F No. J-11015/86/2005-IA.II(M)]

34.9 Expansion of Gondegaon Extension Opencast Coal Mine Project from 2.5 MTPA to 3.5 MTPA by M/s Western Coalfields Limited in an area of 917 ha in Village Gondegaon, Tehsil Parseoni, District Nagpur (Maharashtra) – Extension of EC validity

[IA/MH/CMIN/71601/2017, F No. J- 11015/106/2009-IA.II(M)]

34.10 Discussion on any other item.

34.10.1 Cluster 11 (comprising of 11 mixed mines) with combined production capacity of 10.90 MTPA of M/s Eastern Coalfields Limited in ML area of 4218 ha in Raniganj Coalfields, District Burdwan (West Bengal) - Amendment in EC

[IA/WB/CMIN/35633/2015, F No. J- 11015/245/2011-IA.II(M)]
