

33 No.34011/16/2016-CPAM
Government of India
Ministry of Coal

Shastri Bhawan, New Delhi
the 12th August, 2016

To,

M/s Maharashtra State Power Generation Co. Ltd,
Prakashgad, Plot No. G-9, Prof. A.K. Marg, Bandra(E),
Mumbai-400051
Email :md@mahagenco.in/mdmnspgcl@gmail.com

Subject :	Mine Plan And Mine Closure Plan of Gare Palma Sector-II Coal Mine, Distt Raigarh, Chhattisgarh State of M/s Maharashtra State Power Generation Company Limited.
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Sir,

I am directed to refer to your letter No. Mahagenco/ED (Fuel/Coal) dated 26-02-2016 for approval of Mine Plan And Mine Closure Plan of Gare Palma Sector-II Coal Mine for approval of the Central Government and to state that the Mining Plan & Mine Closure Plan of Gare Palama Sector II Coal Mine (June 2016) of Mand-Raigarh Coalfield, Distt Raigarh, State- Chhattisgarh of M/s. Maharastra State Power Generation Company Limited to be read alongwith company's letter No. Mahagenco/ED (Fuel/Coal)/34C/196 dated 07-07-2016 incorporating clarifications dated 07.07.2016 has been considered and the approval of the Central Government thereon is hereby conveyed under Section 5(2)(b) of the Mines & Minerals (Development & Regulation) Act, 1957 subject to the following conditions:-

- I. The Mining company shall take all necessary precautions regarding safety of mine workings and persons deployed therein;
- II. Mining lease of this block shall not encroach into any other adjacent block;
- III. The cost of abandonment for carrying out the closure activities envisaged in the Mine closure plan is indicative; the actual cost for carrying out the activities at the time of final closure may be higher. The actual cost of abandonment will have to be borne by the project proponent for carrying out the closure activities;
- IV. The approval of the mine plan and mine closure plan is without prejudice to the requirement of approvals from competent /prescribed authority under the relevant rules/ regulations etc;

Two copies of the approved mining plan duly signed by the competent authority are returned herewith with the request that a copy of the approved mining plan may be submitted to the concerned State Government for necessary action and also a photocopy of the approved mining plan may be sent to the Coal Controller for monitoring the block.

Yours Faithfully


(I P Nagpal)

Under Secretary to the Govt. of India.

Encl: As Above



land details as per revenue and forest department records are given in Table 14.2 and the details khasra wise are given in Annexure 3-1.

TABLE 14.2
EXISTING LAND USE DETAILS OF TOTAL AND APPLIED MINING
LEASE AREA (HA)

Sl. No.	Village	Private Land			Govt. Land					Total Area (Private + Govt. Land)
		Agriculture	Non Agriculture	Total Area	Populated	Water body	Other	CBJ**	Total Area	
A. As per Revenue Departments Records										
1	Tihlirampur	97.902	62.685	160.587	6.83	21.225	39.094	0	67.149	227.736
2	Dholnara	59.64		59.64	6.833	0.376	3.317	2.788	13.314	72.954
3	Murogaon	302.393		302.393	8.256	1.303	4.29	23.504	37.353	339.746
4	Libra	121.416	7.621	129.037	2.897	0.439	4.694	15.943	23.973	153.01
5	Kunjemura	199.715		199.715	14.221	13.596	8.308	30.17	66.295	266.01
6	Jhinkabahal	3.844		3.844	0	0	0	0	0	3.844
7	Radopali	351.676		351.676	8.336	5.895	19.955	0.125	34.311	385.987
8	Dolesara	20.748		20.748	0	0	1.242	0	1.242	21.99
9	Bhalumura	16.297		16.297	0	0	0.704	0.622	1.326	17.623
10	Sarasmal	56.869	9.158	66.027	0	1.332	3.563	15.236	20.131	86.158
11	Pata	316.064	13.166	329.23	13.314	5.529	14.47	15.326	48.639	377.869
12	Chitwahi	142.461		142.461	0.252	0.867	8.153	0	9.272	151.733
13	Gare	157.224		157.224	10.482	4.241	11.596	1.957	28.276	185.5
14	Saraitola	156.228	13.722	169.95	8.395	1.364	7.969	29.703	47.431	217.381
Total of A		2002.477	106.352	2108.829	79.816	56.167	127.355	135.374	398.712	2507.541
B. As per Forest Departments Record										
Government Forest Land		135.374 + 75.945 = 211.319								75.945
Grand Total										2583.486

Note: * 75.945 Ha of Protected Forest land and 135.374 Ha of Revenue Forest land is present within the mine lease area, which needs to be diverted for mining purpose after obtaining forestry clearance from the Ministry of Environment and Forest, Govt. of India under the Forest (Conservation) Act 1980.

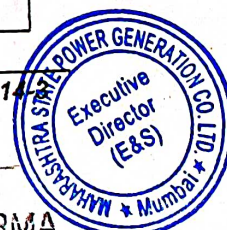
** Small/ big trees forest

b) Buffer zone

The land use pattern in the buffer zone as per Census 2011 is summarised in Table 14.3.

TABLE 14.3
LAND USE PATTERN OF BUFFER ZONE (AS PER CENSUS 2011)

Land use	Area (Ha)	Percent
Irrigated agricultural land	1052.93	1.66%
Unirrigated agricultural land	28577.71	45.16%
Culturable waste land	1368.24	2.16%



F.No.13016/57/2015-CA-III
Government of India
Ministry of Coal

Shastri Bhawan, New Delhi
Dated the 20th February, 2018

To
Shri Sanjay Kankane,
Under Secretary,
Mineral Resources Department,
Government of Chhattisgarh (GoC),
Raipur

Subject: Previous approval of the Central Government under section 5 (1) as well relaxation in the area limits under section 6 (1) (b) of the Mines and Mineral (Development and Regulation) Act, 1957 for grant of mining lease for Gare Palma Sector II coal mine to M/s Maharashtra State Power Generation Company Limited (Mahagenco)

Sir,

I am directed to refer to GoC letter no. F 3-18/2016/12 dated 10.10.2017 and subsequent letter no. F 3-18/2016/12 dated 29.01.2018 requesting for the previous approval / relaxation in the area limits under the provisions of the Mines and Minerals (Development & Regulation) Act, 1957 for grant of mining lease for Gare Palma Sector II coal mine to M/s Maharashtra State Power Generation Company Limited (Mahagenco) and to say that the request of the State Government in the matter has been considered and accordingly, the approval of the Central Government on the following is accorded herewith in respect of Gare Palma Sector II coal mine:

a. Previous approval of the Central Government under Section 5 (1) of the Mines and Minerals (Development and Regulation) Act, 1957 for grant of mining lease for coal to Mahagenco for Gare Palma Sector II coal mine for an area covering 2583.486 Ha. and for the bounding co-ordinates as mentioned below:

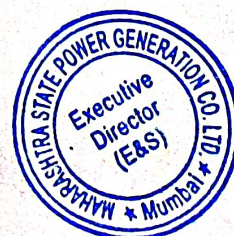
Latitude 22°6'24.215" N to 22°10'49.891" N

Longitude 83°26'15.433" E to 83°31'12.632" E

b. Relaxation in the area limits under Section 6 (1) (b) of the Mines and Minerals (Development & Regulation) Act, 1957 as the area of the coal mine is more than 10 sq. km.

2. The above approval shall be subject to the following terms and conditions:

a. The allocatee company shall carry on coal mining in accordance with the provisions of the Mines and Minerals (Development and Regulation) Act, 1957, Mineral Concession Rules, 1960 and any other

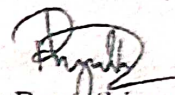


applicable laws.

- b. The allottee company shall strictly adhere to the terms and conditions of the Allotment Agreement.
- c. The provisions of the Allotment Agreement /subsequent Amendments to the Allotment Agreement for Gare Palma Sector II coal mine shall be included in the Form K before the lease deed is executed between Mahagenco and the State Government.
- d. Mining operations shall be undertaken in accordance with the approved mining plan bounded by area which shall not encroach upon any adjacent coal block/mine.
- e. Any violation of any of the terms and conditions shall render the lease liable to be cancelled.

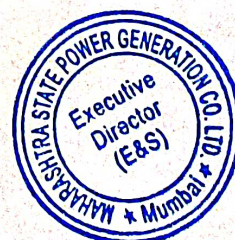
3. A copy of the lease deed executed may invariably be sent to this Ministry for information and record.

Yours faithfully,



(Rishan Ryntathi)

Under Secretary to the Government of India



By Speed post



छत्तीसगढ़ शासन
खनिज साधन विभाग
मंत्रालय

महानदी भवन, नया रायपुर-492002

क्रमांक एफ 3-18/2016/12
प्रति,

नया रायपुर, दिनांक 24 फरवरी, 2018

अध्यक्ष सह प्रबंध संचालक,
महाराष्ट्र स्टेट पावर जनरेशन कंपनी लिमिटेड,
प्रकाशगढ़, प्लाट नंबर जी-9,
बान्द्रा(ईस्ट) मुम्बई-400051(महाराष्ट्र)

विषय :- जिला रायगढ़, तहसील तमनार, ग्राम टिहलीरामपुर एवं अन्य स्थित कोल ब्लॉक "गारेपेलमा सेक्टर-II" के उपलब्ध कुल रकबा 2583.487 हेक्टर क्षेत्र पर खनिज कोयला का खनिपट्टा स्वीकृति हेतु वन संरक्षण अधिनियम, 1980 के तहत आवश्यक अनुमति प्राप्त कर प्रस्तुत करने बाबत-मेसर्स महाराष्ट्र स्टेट पावर जनरेशन कंपनी लिमिटेड।

संदर्भ :- विभागीय समसंख्यक पत्र दिनांक 28.09.2016, दिनांक 22.11.2016, दिनांक 10.10.2017, दिनांक 29.01.2018 एवं भारत सरकार, कोयला मंत्रालय का 13016/57/2015-CA-III, दिनांक 20.02.2018.

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कृपया संदर्भित पत्रों का अवलोकन करें। ज़िला रायगढ़, तहसील तमनार, ग्राम टिहली रामपुर एवं अन्य में स्थित कोल ब्लॉक "गारेपेलमा सेक्टर-II" के कुल रकबा 2583.487 हेक्टर क्षेत्र पर खनिज कोयला का खनिपट्टा 30 वर्ष की अवधि के लिए आपके पक्ष में स्वीकृति हेतु भारत सरकार, कोयला मंत्रालय, नई दिल्ली को एम0एम0डी0आर0 एक्ट, 1957(यथासंशोधित) की धारा-5(1) के तहत पूर्वानुमोदन तथा धारा-6(1)(बी) के तहत छुट हेतु संदर्भित पत्रों द्वारा प्रस्ताव प्रेषित किया गया था। खनिपट्टा स्वीकृत किए जाने वाले क्षेत्र के को-आर्डिनेट्स एवं विवरण नीचे तालिका में दर्शित है(नक्शा संलग्न):-

क्र.	आवेदित ग्राम	निजी(गैर आदिवासी) भूमि	आदिवासी भूमि	शासकीय भूमि			शासकीय भूमि का योग	वन भूमि	कुल योग
				छोटे/बड़े झाड़ के जंगल	आबादी	अन्य			
1	2	3	4	5	6	7	8	9	10
1	भालुमुड़ा	4.496	15.873	1.214	—	2.075	3.289	—	23.658
2	चितवाही	54.839	88.735	—	7.944	8.739	16.683	—	160.257
3	डोलेसरा	10.634	3.389	—	—	7.138	7.138	—	21.161
4	ढोलनारा	27.140	25.398	8.139	5.908	10.219	24.266	2.183	78.987
5	गारे	47.738	116.539	2.159	10.474	11.087	23.720	—	187.997
6	झिकावहाल	0.322	1.113	—	—	0.026	0.026	7.612	9.073
7	लिबरा	65.801	63.445	13.216	3.006	1.657	17.879	—	147.125
8	रोडपाली	150.308	192.565	0.125	17.632	32.017	49.774	—	392.647
9	टिहलीरामपुर	106.733	41.917	—	1.170	75.027	76.197	—	224.847
10	सरसमाल	33.141	42.808	15.887	—	3.706	19.593	—	95.542
11	मुड़ागांव	121.220	181.648	8.216	8.256	7.277	23.749	48.515	375.132
12	सराईटोला	40.433	118.295	18.729	8.597	8.839	36.165	11.533	206.426
13	पाता	220.507	105.046	17.259	12.909	16.328	46.496	29.892	401.941
14	कुंजमुरा	104.193	93.342	30.190	14.432	16.537	61.159	—	258.694
	योग	987.505	1090.113	115.134	90.328	200.672	406.134	99.735	2583.487

F. I. Aijao recovery / 2016-18-2018 / 2016-18-2018 / 2016-18-2018 / 2016-18-2018



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2/ उपरोक्तानुसार भारत सरकार, कोयला मंत्रालय, नई दिल्ली के पत्र क्रमांक 13016/57/2015-CA-III, दिनांक 20.02.2018 द्वारा सशर्त धारा-5(1) के तहत पूर्वानुमोदन एवं धारा-6(1)(बी) के तहत छूट प्रदान किया गया है।

3/ उपर्युक्त के परिप्रेक्ष्य में अनुरोध है कि जिला रायगढ़, तहसील तमनार स्थित कोल ब्लॉक गारेपेलमा-II के उपलब्ध रकबा 2583.487 हेक्टर क्षेत्र पर खनिज कोयला का खनिपट्टा स्वीकृत किये जाने हेतु पैरा-02 की तालिका में वर्णित वन भूमि(राजस्व वन भूमि रकबा 115.134 हेक्टर+ वन भूमि रकबा 99.735 हेक्टर कुल रकबा 214.869 हेक्टर) के संबंध में वन संरक्षण अधिनियम, 1980 के तहत सक्षम प्राधिकारी से आवश्यक अनुमति एवं पर्यावरण संरक्षण अधिनियम, 1986 के तहत आवश्यक पर्यावरणीय अनुमति प्राप्त कर इस विभाग को उपलब्ध कराने का कष्ट करें।

संलग्न- नक्शा

(संजय कनकने) 21/2

अवर सचिव
छत्तीसगढ़ शासन
खनिज साधन विभाग

पृ0 क्रमांक एफ 3-18/2016/12
प्रतिलिपि :-

रायपुर, दिनांक 24 फरवरी, 2018

1. सचिव, भारत सरकार, कोयला मंत्रालय, शास्त्री भवन, नई दिल्ली की ओर उनके उपर्युक्त पत्र दिनांक 20.02.2018 के परिप्रेक्ष्य में सूचनार्थ,
2. सचिव, भारत सरकार, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, जोरबाग रोड़, नई दिल्ली-110003
3. अपर प्रधान मुख्य वन संरक्षक(भू-प्रबंध), कार्यालय मुख्य वन संरक्षक, छत्तीसगढ़, अरण्य भवन मेडिकल कालेज रोड़ रायपुर, छत्तीसगढ़।
4. सदस्य सचिव, छत्तीसगढ़ पर्यावरण संरक्षण मण्डल, पर्यावरण भवन, सेक्टर-19, नया रायपुर
5. संचालक, भौमिकी तथा खनिकर्म, द्वितीय तल, इन्द्रावती भवन, नया रायपुर
6. कलेक्टर, जिला रायगढ़(छत्तीसगढ़)
7. वन मण्डलाधिकारी, वनमण्डल रायगढ़, जिला रायगढ़(छत्तीसगढ़)
8. की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु।
गार्ड फाईल

(संजय कनकने)
अवर सचिव
छत्तीसगढ़ शासन
खनिज साधन विभाग



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MINUTES OF 2nd MEETING OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF COAL MINING PROJECTS CONSTITUTED UNDER THE EIA NOTIFICATION, 2006, HELD ON 28-29th SEPTEMBER, 2020.

DAY I- Thursday, 28th September, 2020

Confirmation of the Minutes of 1st Meeting of the EAC (Coal) held on 17-18th August 2020: No comment was made from members of the committee on the minutes of the 1st meeting of the EAC held on during 17-18 August, 2020, therefore the Minutes of the Meeting (MoM) of 1st meeting was confirmed.

Opening Remarks of the Chairman: At the outset, the Chairman welcomed the Expert members & other participants and requested to start the proceeding as per the agenda adopted for this meeting.

Consideration of Proposals: The 2nd meeting of the Expert Appraisal Committee (EAC) for coal mining projects was held on 28-29 September, 2020 through video conferencing with support NIC team due to Covid-19 lockdown. The EAC considered proposals as per agenda adopted for the meeting. List participant attended the meeting is annexed. The details of deliberations held & decisions taken in the meeting are as under.

Agenda No. 2.1

Gare Palma Sector -II Coal mine Project of 23.60 MTPA (OC-22.0 MTPA+UG-1.6 MTPA) of M/s Maharashtra State Power Generation Company Limited (MSPGCL) in an area of 2583.48 ha in District Raigarh (Chhattisgarh) – For Environment Clearance - reg.

[LA/CG/CMIN/52019/2016; File No J-11015/72/2016-LA.II(M)]

The proposal is for Environment Clearance for Gare Palma Sector II Coal Mine Project of Open Cast 22.0 MTPA + Under Ground-1.6 MTPA capacity in mine lease area of 2583.48 ha of M/s Maharashtra State Power Generation Company Ltd (MSPGCL) located in village-Tihli Rampur, Kunjemura, Gare, Saraitola, Murogaon, Radopali, Pata, Chitwahi, Dholnara, JhinkaBahal, Dolesara, Bhalumura, Sarasmal and Libra, Tehsil-Gharghoda, District- Raigarh, (Chhattisgarh).

2.1.1 The EAC noted the followings: -

The proposal was earlier considered by the sectoral EAC in its 51st EAC meeting held on 5th December, 2019, wherein the Committee deferred the proposal for want additional information. Now, the PP has submitted the replies/compliance to observations of EAC, which is tabulated below: -



Sr. No.	Observations of EAC in 51st EAC meeting	Compliance / replies of Project Proponent
1	The EIA report to be revised as per the terms of reference granted for the project, and shall conform to Appendix III of the EIA Notification, 2006.	EIA report has been revised as per the terms of reference granted for the project and as per Appendix III of the EIA Notification 2006 and subsequent EAC meetings observations
2	Stage-I FC for forest land of 214.869 ha for diversion of non-forestry activity shall be submitted.	<ul style="list-style-type: none"> Application for obtaining forest clearance submitted vide letter dt 26.07.2016, proposal no FP/CG/MIN/20495/2016. All requirements with regards to FC stage 1 application is completed, except CA land identification. All activities in processing the application for grant of FC Stage-I has been completed and the relevant documents has been submitted to DFO office on 16.05.2020. <p>File will be recommended by DFO to CCF shortly for further onwards approval</p>
3	Form#2 on Parivesh should be filled with all details and correct information	Form#2 on Parivesh has been filled with all details and correct information and updated in Parivesh portal.
4	Copy of Agreement for supply of power shall be uploaded on Form#2	Chhattisgarh State Power Distribution Co. Ltd., Raipur vide its Letter No. 02-02/SE (HT)/RGH-327/373 dt 29.05.20 has agreed to provide 23 MVA power supply (Annexure 2 of EIA Report)
5	Approval of Wild Life conservation from concerned statutory authorities	<p>Wildlife conservation plan submitted (Annexure 3 of the EIA Report) to DFO on 14.11.2019.</p> <p>DFO recommended the WCP to CCF on 24.01.2020</p> <p>CCF recommended the WCP to PCCF on 20.02.2020 (Annexure 4 of the EIA report). The WCP report is enclosed as Annexure 24 of the EIA report.</p> <p>The budget of Rs 488.50 Lakhs for conservation of wild life is provided during the period of 5 years (2020-21 to 2025-26).</p>
6	One month of baseline data as the given data is almost 3 years old and validity of baseline data is about to expire as per Ministry's OM shall be collected	Additional 3 months baseline data (Nov 2019 to Jan 2020) has been collected and the same is incorporated in the revised EIA report
7	Hydrological Study and impact of mining activity on hydrology shall be	Hydrology study and embankment design was carried out by Min Mec Consultancy Pvt Ltd., New



	submitted from the expert agency	Delhi The report is at Annexure 5 in the EIA report
8	Permission for extraction of groundwater from CGWA shall be obtained	NOC for ground water abstraction obtained from CGWA, New Delhi Vide Lr no. CGWA/NOC/MIN/ORIG/2020/7943 dated 03.07.2020. The sanctioned water quantity is 1454 m ³ /day (Annexure 6 of EIA report)
9	Permission for usage for surface water i.e. from kelo river (as proposed for initial 3 years) for mining operation/domestic purposed shall be obtained from concerned statutory authority	<ul style="list-style-type: none"> ➤ Application for construction of annicut for water withdrawal from Kelo River submitted to Executive Engineer on 23.01.2020 (Annexure 8 of the EIA Report) and request for water availability was submitted on 26.05.2020 ➤ Executive Engineer, Kelo Pariyogna Sarvekshan Sambhag, Raigarh, approved the same on 26.05.2020 (Annexure 9 of the EIA Report). ➤ Executive Engineer also confirmed that 6000 m³/day water is available for MAHAGENCO.
10	Carrying capacity of the area shall be carried considering the presence of the other coal mines and mitigation measures shall be proposed accordingly.	<ul style="list-style-type: none"> ▪ Carrying capacity study of the area has been carried out for Gare Palma Sector II coal mine and its surroundings. ▪ There are 14 coal mines and 2 Thermal Power Plants in the study area ▪ In all, 6 coal mines are in operation, 4 coal mines are not working and 4 coal mines are proposed and 2 TPPs are in operation.
11	Mining Lease or Letter of Intent for the project area shall be submitted by PP from concerned state government authorities.	<ul style="list-style-type: none"> ➤ Mining lease application submitted on 08.12.2015 (Annexure 11 of EIA Report), ➤ Ministry of Coal has granted previous approval for mining lease vide its letter dated 20.02.2018 (Annexure 12 of the EIA Report). ➤ Further, State Government has issued Letter of Intent for mining lease vide letter dated 24th February 2020. ➤ Lease agreement will be executed after obtaining EC/FC from MOEF&CC as mentioned in letter of State Government dated 24th February 2020.
12	Compliance of issues raised during Public Hearing shall be submitted with certain timeline and allocation.	Compliance of issues raised during Public Hearing were addressed adequately.
13	Social Impact Assessment Study for	➤ Social Impact Assessment report for the



	the proposed displacement of Tribals/SC/ST.	<p>proposed displacement of Tribals/SC/ST prepared by Greencindia Consulting Private Limited (Annexure 13 of the EIA Report)</p> <ul style="list-style-type: none"> ➤ R & R plan based on SIA report is approved by Chhattisgarh Government vide letter dated 06.03.2020 (enclosed approval Letter Annexure 13a of the EIA Report). ➤ The mine lease area is falling under 14 villages and out of which 8 villages are going to be displaced and the other 6 villages/settlements/habitations are not going to be displaced (only land area is affected partially). ➤ Project Displaced population (PDP) and project affected population (only land oustees) is 7063 & 2574 respectively out of this 55.81% & 47.92% are ST and 8.15% & 4.01% are SC respectively. ➤ R&R package towards land cost payment is Rs 2435 Crores, however R&R entitlement and cost will be finalized by the District Administration
14	Impact of mine drainage and diversion of nallah based on quality and quantity (inflow of river).	<p>Impact of mine drainage and diversion of nallah based on quality and quantity is covered in Hydrology study and embankment design report prepared by Min Mec Consultancy and enclosed as Annexure 14 of EIA</p> <ul style="list-style-type: none"> ➤ Kelo river will not be diverted due to the prevailing topography, shape of the block and presence of other coal blocks all around. ➤ Flow in Kelo river, reduction is 0.8%, low impact is envisaged on downstream water balance.
15	Details of hazardous waste generation (if any) during mining operations and further handling/disposal shall be provided in details.	<p>The major types of hazardous waste and biomedical waste generated from the proposed mining activities are as follows.</p> <ul style="list-style-type: none"> ➤ Hazardous wastes like used oil barrels, waste oil barrels, used transformer oil barrels, scrapped batteries, empty oil and grease drums shall be handled and disposed off in accordance with the procedure laid down in HWM Rules. ➤ Used oil, spent oil, batteries shall be disposed-off to the recyclers having valid registration from CPCB/CECB for recycling



		<p>or recovery.</p> <p>Empty oil & grease barrels shall be detoxified prior to their disposal to outside agencies</p>
16	Impact on villages due to mining activity present in core zone (not proposed to be displaced) shall be provided.	Anticipated impacts on the surrounding villages (present in vicinity of Mine Lease Area) and mitigation measures has been submitted during presentation
17	The activities and fund provisions for CER shall be made as per the guidelines issued by the ministry regarding CER on 1 st May, 2018.	<p>Project cost is Rs. 7463 Crores</p> <p>CER budget proposed is Rs 45.35 Crores as per the MoEF&CC OM dt 1st May, 2018</p>
18	Clarification from DFO/PCCF whether there is any presence of Elephant Corridor or movement of elephants in the region.	<ul style="list-style-type: none"> ➤ DFO clarified that there is no presence of Elephant Corridor for movement of elephants in the project area (letter dated 05.03.2020.) ➤ As per DFO letter movement of elephants is approximately 6 km away from the project boundary
19	Impact of mine drainage on kelo river shall be submitted in detail.	<ul style="list-style-type: none"> ➤ The core area (coal block) has two catchments, western side of Kelo river is catchment area of Nala "A" tributary to Pajhar Nadi, eastern side of Kelo river is Karnara Nala conveys storm water from hills on eastern side to Kelo river. ➤ Based on the annual flood peak series of Kelo river observed at Kelo G&D station (Latitude 21°53' 47", longitude 83°24'22") the flood peaks of Kelo with return period of 50 yrs and 100 yrs have been estimated using statistical method i.e. flood frequency method and the values of the flood peaks works out as 1357 cumecs and 1522 cumecs, respectively and peaks are increased by an order of 10% for embankment. The 50 years and 100 years return period peaks thus work out as 1493 cumecs and 1674 cumecs respectively.
20	Detailed Traffic impact assessment/ study for road transportation of coal to linked Railway Siding / Power Plant shall be conducted	<ul style="list-style-type: none"> ➤ In case of the development of Bhalumuda station of CERL as well as extension of railway connectivity to GPII block gets delayed, the mined coal shall be transported from mine to nearest operational railway head by road and from there by rail to Koradi Thermal Power



	<p>Station.</p> <ul style="list-style-type: none"> ➤ At present the nearest operational Railway siding is Gharghoda station of CERN. Gharghoda Railway siding has been notified and opened for Rail traffic on 21.02.2020. ➤ From GP-II mine by road distance of Gharghoda siding is about 35 Kms. ➤ The access will require developing of about 4 Kms within Mine road to touch the Milupara-Tamnar ODR. ➤ The route to Gharghoda Railway siding is GP-II Mine-Gare-Hukradipa-Tamnar-Punjipatra-Bhalumuda- Gharghoda by-pass-Gharghoda siding. ➤ The entire road is two way black top road in good condition. The Coal transportation trucks already ply via this road. ➤ The traffic studies have been conducted to know the prevailing traffic volumes on the existing roads. ➤ The existing baseline scenario of NO_x levels are 36 µg/m³. After implementation of project, the predicted contribution of NO_x is 8.3 µg/m³ and future predicted baseline value of NO_x is 44.3 µg/m³ which is within the prescribed standards. ➤ The existing baseline scenario of CO levels is recorded 2700 µg/m³. After addition of predicted traffic the predicted line source values is 2.7 µg/m³ and the future predicted baseline value is 2702.7 µg/m³. Which is within the prescribed standards (4000 µg/m³-One hour) . ➤ However, Incremental air emissions are limited only upto a stretch of 30 m on either side of the approach road. <p>The transportation/evacuation of coal during initial years will be via roadways, once the railway line completed, then the 100% coal evacuation will be done through rail only</p>
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2.1.2 During deliberations on the proposal, the Committee also noted the following: -

The proposal is for Environment Clearance for Gare Palma Sector II Coal Mine Project of Open Cast 22.0 MTPA + Under Ground-1.6 MTPA capacity in mine lease area of 2583.48 ha by M/s



Maharashtra State Power Generation Company Ltd (MSPGCL), which is located in 14 villages namely Tihli Rampur, Kunjemura, Gare, Saraitola, Murogaon, Radopali, Pata, Chitwahi, Dholnara, JhinkaBahal, Dolesara, Bhalumura, Sarasmal and Libra at Tehsil Gharghoda, District-Raigarh, (Chhattisgarh).

The Public Consultation of project was conducted on 27.09.2019 at Dolesara village, Tamar Tehsil, Raigarh District Chhattisgarh at the premises of Government Primary school. The public hearing was held under the chairmanship of Shri R.A. Kuruvanshi, Additional District Magistrate Raigarh, Chhattisgarh who was nominated by District Collector, Raigarh.

The issues raised during consultation were on local employment, tree plantation, medical facility, education and providing water supply to locals, etc. Response to concerns raised by public has been addressed adequately and PP committed to provide the facilities to locals. The company committed to comply all these concerns for locals by year 2020-26. However, Committee also noted that Report of Indian Council of Medical Research (ICMR) health assessment and project of health of people living in Tamnar Block is yet to completed.

The committee also deliberated the overall impact of proposed mines with cumulative impact of surrounding mines and Thermal Power Plants. Out of total 14 coal mines in Gare Palma Sector -II, only 6 coal mines are in operation, 4 are not functional at present and 4 coal mines are proposed and 2 thermal Power Plants are in operation. The AAQ data was collected from year 2011 to 2019 from various secondary sources and additional one-month data as requested in earlier meeting of EAC. The maximum particulate matter PM₁₀, PM_{2.5} SO_x were found to be in range of 49.5 µg/m³ to 80 µg/m³; 54 µg/m³; 10.5 to 40 µg/m³ in that order respectively. The existing average baseline value of NO_x levels is 36 µg/m³. After implementation of project, the predicted contribution of NO_x is 8.3µg/m³ and future predicted baseline value of NO_x is 44.3µg/m³ which will be within the prescribed standards. With regard to impact of air emission due to transportation of coal to nearest railway station, the Committee, however, noted that incremental air emissions are limited only to stretch of 30 m on either side of the approach road and in this context, PP has conducted the traffic study.

The Committee also took a note of additionality of coal washery operation in the proposed project, though this was not part of TOR granted by MoEF&CC. In this regard, the Committee directs the Project Proponent to submit separate proposal for Coal Washery. However, changes occurring after separating this activity need recalculation, e.g. water requirement, etc. and PP asked to submit in due course.

As per the submission, total water required for mining project is 2785 KLD, of which fresh water requirement will be 1785 KLD and 1000 KLD will be recycled water. Out of 1785 KLD of fresh water requirement, a quantity of 1239 KLD will be for consumptive use for colony, village etc. and 546 KLD is for industrial use. The domestic waste water will be treated in STP of 1000 KLD capacity and treated water will be used for plantation and dust suppression measures and vehicle washing. For treating Industrial wastes water from mine seepage, rainwater accumulated in mine pit, two settling ponds of 5 ha each are proposed. Part of treated water will be reused for mining project (dust suppression, vehicle washing, etc.) and remaining excess treated water will



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be discharged into Kelo River. Additionally, one ETP of appropriate capacity in line with approved Mining Plan shall also be established for treatment of waste water from Workshop.

In this context, the committee is of the view that project should go for advance treatment technology for STP and ETP so that treated water could be recycled and reused for different purposes including tree plantation in nearby area as proposed by PP. No wastewater shall be discharged in to the river. If require, necessary arrangement shall be made to reuse the treated water from STP and ETP to nearby TPP or coal washery /or future coal washery by entering suitable agreement.

Total forest land involved in the Project is 214.869 Ha pending for diversion for non-forestry activity. Permission for Stage-I FC from MoEF&CC is yet to be granted. Application for obtaining forest clearance has been submitted vide proposal no FP/CG/MIN/20495/2016 dated 26.07.2016,

The Committee also noted that project has made adequate arrangements for embankment all along the western and eastern banks of Kelo. The height, free board, alignment and design has been prepared for the bund and given in the "Hydrology Study & embankment Design by M/s Min Mec Consultancy Pv. Ltd." The height of the bund shall vary from 3 m to 10 m. The committee recommends that the PP shall take all care about design of bunds and construction of the same.

2.1.3 The EAC, after deliberations found responses given by PP are satisfactory and recommended the proposal for grant of Environment Clearance to Gare Palma Sector -II Coal mine Project of 23.60 MTPA (OC-22.0 MTPA+UG-1.6 MTPA) of M/s Maharashtra State Power Generation Company Limited (MSPGCL) in an area of 2583.48 ha in District Raigrah (Chhattisgarh), under the provisions of Environment Impact Assessment Notification, 2006 and subsequent amendments/circulars thereto subject to the compliance of the following terms & conditions / specific conditions: -

- (i) The project proponent shall obtain Consent to Establish/Operate from the State Pollution Control Boards for the proposed peak capacity of 23.60 MTPA (OC-22.0 MTPA+UG-1.6 MTPA) prior to commencement.
- (ii) PP shall submit Stage-I FC for forest land involved in the project for non-forestry activity.
- (iii) Third party monitoring (by NEERI/CIMFR/IIT/NITs) for air quality shall be carried out at identified locations, both ambient and the process area, to arrive at impact of the proposed expansion.
- (iv) Top soil should be stored separately at marked area and necessary vegetation shall be maintained to avoid any entrainment of dust.
- (v) All the recommendation of carrying capacity study shall be completed within stringent timeframe.
- (vi) PP shall construct embankment leaving 100 mtrs away from HFL of kelo river and the same shall be taken prior approval from DGMS
- (vii) Transportation of coal from Coal Handling Plant shall be through mechanized covered trucks for 5 years. No transportation by trucks after 5 years and proposed railway siding should be constructed without any delay.
- (viii) As proposed fresh water requirement will be 1785 KLD, which shall be met from Kelo river



initially and later by groundwater. The total industrial water demand (peak) in operation phase shall be met by utilizing treated mine discharge water. If require, necessary arrangement shall be made to reuse treated water from STP & ETP to nearby TPP or coal washery /or future coal washery by entering suitable agreement. No wastewater (treated or untreated) shall be discharged into the river or any other water body

- (ix) All the villages coming under the zone of influence as in hydrology study shall be provided with suitable water supply alongwith sanitation facility.
- (x) All the recommendation in Social Impact Assessment study shall be complied within stringent timeframe. Timeline should be submitted to District Collector for necessary action points.
- (xi) Commitment made during public consultation process shall be adhere to. As proposed, Rs. 45.35 Crore is earmarked for CER activities, which shall be accomplished within period of 5 years.
- (xii) Water quality and Bioassay test of kelo shall be monitored quarterly and submitted to State Pollution Control Board. No water shall be discharged in river.
- (xiii) Quarterly monitoring of quality of water from bore hole used for drinking purpose shall be conducted and report thereof shall be submitted to SPCB.
- (xiv) Progressive backfilling of mine and progressive reclamation of OB dump shall be done.
- (xv) To control the production of dust at source, the crusher and in-pit belt conveyors shall be provided with mist type sprinklers.
- (xvi) Mitigating measures shall be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient fixed type water sprinklers. Adequate corrective measures shall be undertaken to control dust emissions, which would include mechanized sweeping, water sprinkling/mist spraying on haul roads and loading sites, long range misting/fogging arrangement, wind barrier wall and vertical greenery system, green belt, dust suppression arrangement at loading and unloading points, etc.
- (xvii) Continuous monitoring of occupational safety and other health hazards, and the corrective actions need to be ensured.
- (xviii) Permission from State Water Department for diversion of two nalas, one in the west side (Nala A) and one on the East side (Karnara nala) of Kelo river shall be taken before any diversion work. Impact of diversion in terms of availability of water in river shall be studied before diversion and submitted to State Water Department.
- (xix) PP shall take permission of State Public Works Department before the proposed for diversion Roads from Bajamura to Ghargoda (approx. 11.6 km) and Milupara to Tamnar (app 3 km).
- (xx) Persons of nearby villages shall be given training on livelihood and skill development to make them employable.
- (xxi) PP shall submit Mine Closure Plan as per MoC latest 2019 guidelines to this Ministry within one year.
- (xxii) Mining shall be carried out only by surface miners for the project and silo loading till railway siding through in-pit conveyor should be installed to avoid road transportation in 5 years.
- (xxiii) Efforts shall be made for utilizing alternate sources of surface water, abandoned mines or else whatsoever and thus minimizing the dependability on a single source.
- (xxiv) Active OB Dump should not be kept barren/open and should be covered by temporary grass to avoid air born of particles



- (xxv) PP shall conduct the stability study of OB dump by reputed agencies and necessary approval of DGMS.
- (xxvi) As proposed, total plantation shall be done in 2256.60ha area of land till closure of mine. Project proponent to plant 150,000 nos. of native trees with broad leaves along the transportation route in three years to prevent the effect of air pollution. After completion of tree plantation, number of trees shall be duly endorsed from District Forest Officer.
- (xxvii) Project Proponent shall obtain blasting permission from DGMS for conducting mining operation near villages and also explore deployment of rock breakers of suitable capacity in the project to avoid blasting very near to villages. There shall be no damages caused to habitation/structures due to blasting activity.
- (xxviii) The Project Proponent shall comply with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors. State Government shall ensure that the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department in strict compliance of judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors.
- (xxix) Project Proponent shall obtain the necessary prior permission from the Central Ground Water Authority (CGWA) in case of intersecting the Ground water table.
- (xxx) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of National Institute for ensuring good occupational environment for mine workers shall be implemented; The prevention measure for burns, malaria and provision of anti-snake venom including all other paramedical safeguards may be ensured before initiating the mining activities.
- (xxxi) Project Proponent shall follow the mitigation measures provided in Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".
- (xxxii) The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours.
- (xxxiii) The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna, if any, spotted in the study area. Action plan for conservation of flora and fauna shall be implemented in consultation with the State Forest and Wildlife Department. A copy of action plan shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office.
- (xxxiv) Hon'ble Supreme Court in an Writ Petition(s) Civil No. 114/2014, Common Cause vs Union of India & Ors vide its judgement dated 8th January, 2020 has directed the Union of



India to impose a condition in the mining lease and a similar condition in the environmental clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. Compliance of this condition after the mining activity is over at the cost of the mining lease holders/Project Proponent". The implementation report of the above said condition shall be sent to the Regional Office of the MoEFCC.

The proposal was recommended with above specific conditions

Agenda No. 2.2

Basantpur Tapin Coking Coal Washery of 4MTPA in an area of 32.47 ha of M/s Central Coalfields Limited, located in Kedla, District Ramgarh (Jharkhand) – Environment Clearance-reg

[IA/JH/CMIN/77450/2018; File No J-11015/97/2018-IA.II(M)]

2.2.1 The proposal is for Environment Clearance for Basantpur Tapin Coking Coal Washery Project of 4 MTPA capacity in lease area of 32.03 Ha by M/s Central Coal Field Limited located in Village Basantpur, Post- Kedla, District- Ramgarh (Jharkhand).

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

- (i) The project area is covered under Survey of India Topo Sheet No. F45B9 and is bounded by the geographical coordinates ranging from Latitude: 23° 49' 48.78" N to 23° 49' 22.16"N and Longitude: 85° 33' 44.76" E to 85° 34' 01.87" E
- (ii) Coal linkage of the project is proposed for Washed Coal (Power), Clean Coal, Reject use for various destination.
- (iii) No Joint venture cartel has been formed.
- (iv) Project does not fall in the Critically Polluted Area (CPA), where the MoEF&CC's vide its OM dated 13th January, 2010 has imposed moratorium on grant of environment clearance.
- (v) Employment generation 200 employment to the persons will be provided from the project.
- (vi) The project is reported to be beneficial in terms of Social, Environment, and Financial status.
- (vii) Ministry granted Terms of Reference for the said project vide MoEF&CC letter No. J-11015/97/2018-IA. II(M) dated 7th January, 2019
- (viii) The plan for washery has been approved by CCL board 483rd (No. 03 of 2020) meeting held on 03/02/2020 and communicated vide no. CS/BM/483/2020/153 dtd. 25/02/2020.
- (ix) Baseline data for air quality (PM10, PM2.5, SO2, NOX) (6 stations), noise (day & night) (6 stations), water (surface (2 stations), drinking water (2 stations), effluent water (1 station)), have been collected from March, 2019 to June, 2019. All the points have been considered in

