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(IV) PROPOSED TERMS OF REFERENCE FOR EIA STUDIES

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No. J-11015/72/2016-IA.II(M)
Government of India
Ministry of Environment, Forest & Climate Change
IA-II (Coal Mining) Division

Indira Paryavaran Bhawan,
Jorbagh Road, N Delhi-3
Dated: 8th August, 2016

To,

The Chief Engineer (CEHSU),
M/s Maharashtra State Power Generation Company Limited,
HDIL Towers, 3rd Floor, Prof. A. K. Marg,
Bandra(E) **Mumbai- 400051**
(Maharashtra)

Phone: 022-26582424

Email: ce.cehsu@mahagenco.in, ceghseu@mahagenco.in

Sub: 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 Ltd (MSPGCL) in an area of 2583.48 ha in District Raigarh (Chhattisgarh) - TOR reg.

Sir,

This is with reference to your letter No. MAHAGENCO/CE/CEHSU/GARE PALMA/EC/387 dated 11.04.2016, online proposal No. IA/CG/CMIN/52019/2016 dated 28.04.2016 requesting this Ministry for grant of Terms of Reference (TOR) and subsequent letter Nos. dated 06.06.2016, 16.06.2016, 24.06.2016 and 27.06.2016 on the subject.

2. The proposal is for grant of TOR to the 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 Ltd (MSPGCL) in an area of 2583.48 ha in District Raigarh (Chhattisgarh).

3. The proposal was considered by the Expert Appraisal Committee (EAC) in the Ministry for Thermal & Coal Mining Projects in 58th EAC meeting held on 23rd -24th June, 2016. 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. Earlier, the Gare Palma-II Coal Block in Tehsil Tamnar, District Raigarh (Chhattisgarh) was granted ToR on 19th March, 2013 in favour of M/s Maha Tamil collieries Ltd for the total production capacity of 23.60 MTPA (OC 22 MTPA, UG 1.6 MTPA) in a total area of 2583.48 ha.
- ii. Subsequent to cancellation by the orders of Hon'ble Supreme Court, the coal mine has now been allocated to M/s MSPGCL vide allotment order dated 31st August, 2015 issued by Ministry of Coal.
- iii. The above said ToR, neither valid as of now nor qualifies for transfer to the fresh allottee, the present proposal is for consideration of fresh ToR without any reference to the ToR issued earlier.

iv. The latitude and longitude of the project site are

Boundary Point	Latitude	Longitude
A	22 ⁰ 08' 51.49" N	83 ⁰ 26' 15.48" E
B	22 ⁰ 10' 05.17" N	83 ⁰ 26' 15.43" E
C	22 ⁰ 10' 49.89" N	83 ⁰ 27' 26.62" E
D	22 ⁰ 09' 09.89" N	83 ⁰ 28' 57.87" E
E	22 ⁰ 08' 03.77" N	83 ⁰ 29' 49.27" E
F	22 ⁰ 06' 24.21" N	83 ⁰ 31' 12.63" E
G	22 ⁰ 07' 18.06" N	83 ⁰ 29' 13.85" E
H	22 ⁰ 06' 50.05" N	83 ⁰ 29' 15.31" E

- v. Joint Venture: Not applicable
- vi. Coal Linkage : Ministry of Coal has awarded allotment order under clause (C) of sub rule (2) of rule 7 and sub-rule (1) of rule 13; vide order No. 103/30/2015/NA dated: 31st August 2015
- vii. Employment generated / to be generated: 3400 (Underground + Open cast)
- viii. Benefits of the project: Direct Employment for people in the mining areas, indirect Employment opportunities for the people in the surrounding areas, enhanced livelihood opportunities for people, development of infrastructure facilities in the surrounding areas, improvement in quality of life, Self-Reliance among women groups through income generation activities, CSR activities aim at overall development of the region etc.
- ix. The land usage of the project will be as follows:

Pre-Mining:

S.No	Landuse	Area, Ha
1	Agricultural	2108.83
2	Non Agricultural (Grass/road/community land/barren)	127.35
3	Township/populated	79.82
4	Water Body	56.17
5	Protected Forest	75.94
6	Revenue Forest	135.37
Total		2583.48

- x. The total geological reserve is 1059.29 MT. The mineable reserve 582.292 MT (Opencast), 199.393 MT (Underground), extractable reserve is 553.17 MT (Opencast), 101.97 (Underground). The per cent of extraction would be 75.15 % (Opencast), 31.55% (Underground).
- xi. The coal grade is G3-G17. The stripping ratio is 4.99:1 m³/tonne. The average Gradient is 1:16. There will be 31 seams with thickness ranging from 12 m to 22 m.
- xii. Total estimated water requirement is 1995 KLD water will be required for the mine, residential colony after considering the reuse of 80% of water reclaimed from colony STP. The level of ground water varies from 4.67 to 12.34 m bgl during pre-monsoon period and from 1.43 to 9.35 m bgl during post monsoon period in the shallow aquifers.
- xiii. The method of mining would be Shovel / dumper combination as well as Continuous Surface Miners-Opencast, Mechanized Room & Pillar without blasting and Semi mechanized Board & Pillar with blasting – Underground.

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- xiv. There is One external OB dump with Quantity of 218.81Mbcm in an area of 380 ha with height of 90 meter above the surface level.
- xv. The total void mine would be 331.06 Ha; 195.15 ha(in east pit) with a depth of 170 m upto pit floor and remaining 135.91 ha (in west pit) with a depth of 60 m due to partial backfilling.
- xvi. The life of mine is 29 Years for Opencast, 69 Years for Underground.
- xvii. Transportation: Coal transportation in pit by Opencast Mining:-Dumpers; Underground Mining:- shuttle cars and conveyors from in pit to pit head coal handling plant, Surface to Siding by Conveyor after the rail route planned through the northern part of block is in place. Trucks till the said Rly line is in place and loading at siding by Reclaiming and loading Conveyors Coal will be transported through rail from the nearest available Railway siding.
- xviii. There is R & R involved. There are 3500PAFs.
- xix. Cost: Total capital cost of the project is Rs. 7642 Crores. CSR Cost The CSR activities will be implemented over and above R&R package. A detailed study will be conducted to identify the actual needs of the people in the area to formulate CSR policy. R&R Cost Rs. 434 Crores. Environmental Management Cost It will be calculated during preparation of EIA report.
- xx. Water body: Kelo River is flowing across the mine lease area. A statutory 60m barrier will be left on either side of the river.
- xxi. Approvals: Ground water clearance not yet taken, Board's approval obtained on 18/03/2016. Mining Plan and Mine Closure Plan submitted to MOC vide letter No Mahagenco/ED (Fuel/Coal) dated 26.02.2016, and expected to be approved by the end of July, 2016. Mine closure plan is an integral part of Mining plan.
- xxii. Wildlife issues: There are no national Parks, wildlife sanctuary, biosphere reserves found in the 10 km buffer zone.
- xxiii. Forestry issues: 211.31 Ha (ProtectedForest-75.94 Ha, Revenue Forest – 135.37 Ha)
- xxiv. Total afforestation plan shall be implemented covering an area of 194.76 ha at the end of mining. Green Belt over an area of 36.07 ha. Density of tree plantation 6318900 trees/ ha of plants.
- xxv. There are no court cases/violation pending with the project proponent.

4. The EAC, after deliberations in its 58th meeting held on 23-24 June, 2016, recommended the project for grant of Terms of Reference for preparation of EIA/EMP reports along with Public Hearing. Based on the recommendations of the EAC, the MOEFCC hereby accords TOR to the **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 Ltd (MSPGCL)** in an area of 2583.48 ha in District Raigarh (Chhattisgarh) for preparation of EIA/EMP report along with public hearing, with generic TORs and additional scope of work/study in respect of the following:-

- (i) The project proponent should submit the details of design of the protection works through a reputed organization to take care of hydrology of the river during flood. Wherever drainage is intercepted the project proponents have to propose a suitable diversion of drains all along the project boundaries.
- (ii) A detailed socio-economic study to be conducted through a reputed institute.
- (iii) Conservation Action Plan for the wildlife to be prepared in consultation with State forest authorities. Issues raised by one of the NGOs to be adequately addressed.



4.1 Generic TORs for an **opencast and underground** coalmine project

The ToRs prescribed for opencast and underground coal mining as applicable, are available on the Ministry's website at <http://environmentclearance.nic.in/writereaddata/Form-1A/Minutes/08072016AVDCK363ApprovedMOM.pdf>

5. This grant of Terms of Reference for the said project is further subject to the general conditions as under:-

- (i) All documents should be properly indexed, page numbered.
- (ii) Period/date of data collection should be clearly indicated.
- (iii) Authenticated English translation of all material provided in Regional languages.
- (iv) After the preparation of the draft EIA-EMP Report as per the aforesaid TOR, the proponent shall get the Public Hearing conducted as prescribed in the EIA Notification 2006 and take necessary action for obtaining environmental clearance under the provisions of the EIA Notification 2006.
- (v) The letter/application for EC should quote the MOEF file No. and also attach a copy of the letter prescribing the TOR.
- (vi) The copy of the letter received from the Ministry on the TOR prescribed for the project should be attached as an annexure to the final EIA-EMP Report.
- (vii) General Instructions for the preparation and presentation before the EAC of TOR/EC projects of Coal Sector should be incorporated/followed.
- (viii) The aforesaid TOR has a validity of **three** years only.
- (ix) Grant of TOR does not necessarily mean grant of EC.
- (x) Grant of TOR/EC to the present project does not necessarily mean grant of TOR/EC to the captive/linked project.
- (xi) Grant of TOR/EC to the present project does not necessarily mean grant of approvals in other regulations such as the Forest (Conservation) Act 1980 or the Wildlife (Protection) Act, 1972.
- (xii) Grant of EC is also subject to circulars issued under the EIA Notification 2006, which are available on the MOEF website: www.envfor.nic.in

6. You are required to submit the final EIA/EMP prepared as per TORs to the Ministry within 3 years as per this Ministry's O.M. No.J-11013/41/2006-IA. II (I) dated 22nd October, 2014 for considering the proposal for environmental clearance

7. The consultants involved in the preparation of EIA/EMP report after accreditation with Quality Council of India / National Accreditation Board of Education and Training (QCI/NABET) would need to include a certificate in this regard in the EIA/EMP reports prepared by them and data provided by other Organization(s)/Laboratories including their status of approvals etc. vide Notification of the MoEF dated 19th July, 2013.


10/8/2016
(S K Srivastava)
Scientist E

Copy to:

The Member Secretary, Chhattisgarh Environment Conservation Board, Commercial Complex, C.G. Housing Board Colony, Kabir Nagar, District Raipur (**Chhattisgarh**) – 492 099