



J-13012/87/2007-IA.II (T)
Government of India
Ministry of Environment & Forests

BY SPEED POST

Telephone: 011-24368526
Paryavaran Bhawan
CGO Complex, Lodi Road
New Delhi-110 003
Dated: 4th January, 2010

To

M/s Maharashtra State Power Generation Co. Ltd.
Prakashgad, 3rd Floor, Plot No. G-9
Bandra (E)
Mumbai - 4000 51

Sub: 3x660 MW Expansion of Coal Based Power units at Koradi TPP in Nagpur District, in Maharashtra - reg. Environmental Clearance.

Sir,

The undersigned is directed to refer to letters dated 30.07.2009, 03.10.2009 and 01.12.2009 on the subject mentioned above. The Ministry of Environment & Forests has examined the application.

2. It has been noted that the proposal is for replacement of existing 4 units of 120 MW each by 1x660 MW unit and addition of 2x660 MW units. Additional fresh water will be required for this proposed expansion project will be met from the sewage collected by Nagpur Municipal Corporation after treatment. MoU with Nagpur Municipal Corporation is in place. No additional fresh water will be drawn, since only the allotted water from Pench River (through a canal) will be utilized. It is proposed to install a tri-flue stack of 275 m height. Coal requirement will be 30,638 TPD, which will be sourced from Machhakuta Coal filed in Orissa. Washed coal will be used for the project. Ash content of the coal will be 44.65 % (maximum). Sulphur content will be 0.8 % (maximum). The slurry disposal method proposed will be based on high concentration slurry. NOC from A.C.I. for 275 m stack height has been accorded. NOC from Gram Panchayat has also been obtained. Kolar river is at a distance of 1.0 km from the site. No R&R is involved. Proposed units will be installed with 99.9 % efficiency ESP. FGD with one unit of 660 MW will be installed initially and the requirement, if any, for the installation of FGD system with the other two units will depend upon the prevalent ambient levels of SO₂. There are no national parks, wildlife sanctuaries, biosphere/elephant/tiger reserves, heritage sites etc within 10 km of the site. Public hearing was conducted on 25.03.2009. Cost of the project will be Rs. 11,880.0 Crores.

3. The project has been considered in accordance with the provisions of the EIA notification issued by the Ministry of Environment & Forests vide S.O. 1533 (E), dated September 14, 2006.

4. Based on the information submitted by you, as in Para 2 above and others, the Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA notification dated September 14, 2006, subject to the compliance of the following conditions:

- (i) FGD with one unit of 660 MW will be installed initially to begin with and the requirement, if any, for the installation of FGD system with the other two units will depend upon the prevalent ambient levels of SO_2 . Provision for installation for FGD in all units shall be made.
- (ii) Hydro-geological study of the area shall be reviewed annually and results submitted to the Ministry and concerned agency in the State Govt. In case adverse impact on ground water quantity and quality is observed, immediate mitigating steps to contain any adverse impact on ground water shall be undertaken.
- (iii) Minimum required environmental flow suggested by the Competent Authority of the State Govt. shall be maintained in the Channel/ Rivers even in lean season. It shall be ensured that natural drainage in the region is not disturbed due to activities associated with operation of the plant.
- (iv) A Tri-Flue stacks of 275 m height each shall be provided with continuous online monitoring equipments for SO_x , NO_x and PM. Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack shall also be monitored on periodic basis.
- (v) High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm^3 .
- (vi) Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.
- (vii) Utilisation of 100% Fly Ash generated shall be made from 4th year of operation of the proposed expansion. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.
- (viii) Fly ash shall be collected in dry form and storage facility (silos) shall be provided. 100% fly ash utilization shall be ensured from 4th year onwards. Unutilized fly ash shall be disposed off in the ash pond in the form of slurry form. Mercury and other heavy metals (As, Hg, Cr, Pb etc.) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.
- (ix) Ash pond shall be lined with HDP/LDP lining or any other suitable impermeable media such that no leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.
- (x) For disposal of Bottom Ash in abandoned mines (if proposed to be undertaken) it shall be ensured that the bottom and sides of the mined out areas are adequately lined with clay before Bottom Ash is filled up. The project proponent shall inform the State Pollution Control Board well in advance before undertaking the activity.
- (xi) Closed cycle cooling system with natural draft cooling towers shall be provided. The Effluents shall be treated as per the prescribed norms.
- (xii) The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant. There shall be no discharge outside the plant boundary except during monsoon. Arrangements shall be made that effluents and storm water do not get mixed.

A sewage treatment plant shall be provided and the treated sewage shall be used for raising greenbelt/planization.

- (xiv) Rainwater harvesting should be adopted. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of clearance and details shall be furnished.
- (xv) Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season. Copy of these measures with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry.
- (xvi) Storage facilities for auxiliary liquid fuel such as LDO and/ HFO/LSHS shall be made in the plant area in consultation with Department of Explosives, Nagpur. Sulphur content in the liquid fuel will not exceed 0.5%. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.
- (xvii) Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (Hg,Cr,As,Pb) and records maintained and submitted to the Regional Office of this Ministry. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project.
- (xviii) Green Belt consisting of 3 tiers of plantations of native species around plant and at least 100 m width shall be raised. Wherever 100 m width is not feasible a 50 m width shall be raised and adequate justification shall be submitted to the Ministry. Tree density shall not less than 2500 per ha with survival rate not less than 70 %.
- (xix) First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
- (xx) Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dBA. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non noisy/less noisy areas.
- (xxi) Regular monitoring of ground level concentration of SO₂, NO_x, RSPM (PM₁₀ & PM_{2.5}) and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.
- (xxii) A good action plan for R&R (if applicable) with package for the project affected persons be submitted and implemented as per prevalent R&R policy within three months from the date of issue of this letter.
- (xxiii) An amount of Rs 20.0 Crores shall be earmarked as one time capital cost for CSR programme. Subsequently a recurring expenditure of Rs 4.0 Crores per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to

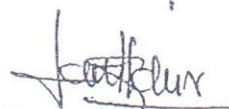
be undertaken shall be submitted within one month along with road map for implementation.

- (xxiv) As part of CSR programme the company shall conduct need based assessment for the nearby villages to study economic measures with action plan which can help in upliftment of poor section of society. Income generating projects consistent with the traditional skills of the people besides development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such programme. Company shall provide separate budget for community development activities and income generating programmes. This will be in addition to vocational training for individuals imparted to take up self employment and jobs.
- (xxv) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- (xxvi) The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>.
- (xxvii) A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, urban local Body and the Local NGO, if any, from whom suggestions/representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
- (xxviii) A separate Environment Management Cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- (xxix) The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely, RSPM (PM₁₀ & PM_{2.5}), SO₂, NO_x (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.
- (xxx) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well by e-mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB.
- (xxxi) The environment statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.
- (xxxii) The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of

Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests.

- (xxxiii) Regional Office of the Ministry of Environment & Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will up-load the compliance status in their website and up-date the same from time to time at least six monthly basis. Criteria pollutants levels including NO_x (from stack & ambient air) shall be displayed at the main gate of the power plant.
- (xxxiv) Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.
- (xxxv) The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.
- (xxxvi) Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry at Bangalore / CPCB/ SPCB who would be monitoring the compliance of environmental status.
4. The Ministry of Environment and Forests reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry. The Ministry may also impose additional environmental conditions or modify the existing ones, if necessary.
5. The environmental clearance accorded shall be valid for a period of 5 years to start operations by the power plant.
6. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
7. In case of any deviation or alteration in the project proposed including coal transportation system from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the condition(s) imposed and to add additional environmental protection measures required, if any.
8. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.

9. Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred, within 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.


(LALIT KAPUR)
DIRECTOR

Copy to:-

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110001.
2. The Secretary (Environment), Forests and Environment Department Government of Maharashtra.
3. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
4. The Chairman, Maharashtra Pradesh State Pollution Control Board, Kalpataru Point, 3rd & 4th Floors, Sion Matunga Scheme Road No. 6, Opp. Cine Planet, Sion Circle, Sion (E), Mumbai - 400 022
5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi- 110032.
- ✓ 6. The Chief Conservator of Forests, Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, Arera Colony, Ravishankar Nagar, Bhopal - 462016.
7. The District Collector, Nagpur District, Govt. of Maharashtra.
8. The Director (EI), MOEF.
9. Guard file.
10. Monitoring file.

(LALIT KAPUR)
DIRECTOR

Inward No./CEHSU/ 515

Date: 13/04/2015

E-mail: sanchita@nic.in
sansom_2859@yahoo.co.in
Telefax: 011-24695402



भारत सरकार
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FORESTS AND CLIMATE CHANGE
इंदिरा पर्यावरण भवन, जोर बाग रोड,
अलीगंज, नई दिल्ली-110 003
INDIRA PARYAVARAN BHAWAN, JOR BAGH ROAD,
ALIGANJ, NEW DELHI-110 003
Website : moef.nic.in

F. No. J-13012/87/2007-IA.II (T)

2nd Level, JAL Block
Date: 27th March, 2015

To

M/s Maharashtra State Power Generation Co. Ltd.
(Formerly known as M.S.E.B)
Corporate Environment Health & Safety Unit
HDIL Towers, "A" Wing, 3rd Floor
Prof. A.K. Marg
Bandra (E), Mumbai- 400 051
Maharashtra
Ph: 022-26582424/26584225; Fax: 022-26477273

E E CR
15/4/15

Subject: Extension of validity of Environment Clearance for 3x660 MW Expansion of coal based power units at Koradi Thermal Power Project, Distt. Nagpur, Maharashtra by M/s. Maharashtra State Power Generation Company Ltd.

Sir,

This has reference to your letters dated 18.12.2014, 16.01.2015 and 02.02.2015 on the above subject. It is noted that Environment Clearance (EC) was accorded for the above project on 4th January, 2010.

2. The matter was placed before the EAC (Thermal Power) in its 30th Meeting held during 29th & 30th January, 2015. In acceptance of the recommendation of the EAC and in view of the information/clarification submitted by you with respect to implementation of the above mentioned power project, the validity of the said EC is extended till 30th June, 2016 to start the production/operation of all the Units of the power plant.

3. Further, under Para no.4 of the said EC dated 4th January, 2010, after the condition no. (xxxvi), the following conditions shall be added:

xxxvii) Harnessing solar power within the premises of the plant particularly at available rooftops shall be carried out and status of implementation including actual generation of solar power shall be submitted along with half-yearly monitoring report.



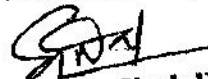
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- xxxviii) A long term study of radio activity and heavy metals contents on coal to be used shall be carried out through a reputed institute and results thereof shall be analyzed every two year and reported in the monitoring reports. Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.
- xxxix) Fugitive emissions shall be controlled to prevent impact on agricultural or non-agricultural land.
- xl) Fly ash shall not be used for agricultural purpose. No mine void filling will be undertaken as an option for ash utilization without adequate lining of mine with suitable media so that no leaching shall take place at any point of time. In case, the option of mine void filling is to be adopted, prior detailed study of soil characteristics of the mine area shall be undertaken from an institute of repute and installation of adequate clay lining shall be ascertained, if required, by the State Pollution Control Board. The dumping in mine void shall be carried out in close co-ordination with the State Pollution Control Board.
- xli) Green belt of 20-50 m width shall also be developed around the Ash Pond over and above the Green Belt around the plant boundary.
- xlii) An Environmental Cell comprising of at least one expert in environmental science/ engineering, ecology, occupational health and social science, shall be created preferably at the project site itself and shall be headed by an officer of appropriate seniority and qualification. It shall be ensured that the Head of the Cell shall directly report to the Head of the Plant who would be accountable for implementation of environmental regulations and social impact improvement/mitigation measures.
- xliii) For periodic monitoring of CSR activities, a CSR Committee or a Social Audit Committee or a suitable credible external agency shall be appointed. CSR activities shall also be evaluated by an independent external agency, both concurrently and final.
- xliv) The project proponent shall formulate a well laid Corporate Environment Policy and identify and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with the conditions stipulated in this clearance letter and other applicable environmental laws and regulations.

4. All other conditions mentioned in this Ministry's letter of even no. dated 4th January, 2010 shall remain the same.

This is issued with the approval of the Competent Authority.

Yours faithfully,


(Sanchita Jindal)
Scientist 'F' & Director (T)

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110001.
2. The Secretary, Department of Environment, Govt. of Maharashtra.
3. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
4. The Chairman, Maharashtra Pollution Control Board, Kalpataru Point, 3rd & 4th Floors, Sion Matunga Scheme Road No. 6, Opp. cine Planet, Sion Circle, Sion (E), Mumbai - 400 022.
5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
6. The Chief Conservator of Forests, Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, Arera Colony, Ravishankar Nagar, Bhopal - 462016.
7. The District Collector, Nagpur District, Maharashtra.
8. Guard file.

(Sanchita Jindal)
Scientist 'F' & Director (T)

No. J-13012/87/2007-IA.II (T)

Government of India

Ministry of Environment, Forests and Climate Change



3rd Floor, Vayu Block,
Indira Paryavaran Bhawan, Jor Bagh Road,
Aliganj, New Delhi-110003

Dated: 23.03.2017

To

M/s Maharashtra State Power Generation Co. Ltd.
(Formerly known as M.S.E.B)
Corporate Environment Health & Safety Unit
HDIL Towers, "A" Wing, 3rd Floor,
Prof. A.K. Marg,
Bandra (E), Mumbai- 400 051

Ph: 022-26582424/26584225; Fax: 022-26477273

Sub: 3x660 MW Expansion of coal based power units at Koradi TPP, Distt. Nagpur, Maharashtra by M/s. Maharashtra State Power Generation Company Ltd.- reg. amendment of EC.

Sir,

This has reference to your letters dated 20.08.2016 on the above subject. It is noted that EC was accorded for the above project on 04.01.2010. Subsequently, the validity of the EC has been extended till 30.06.2016 on 27.03.2015.

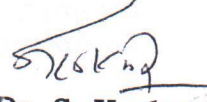
2. The matter was placed before the Re-constituted EAC (Thermal Power) in its 1st Meeting held 28.12.2016. In acceptance of the recommendation of the EAC and in view of the information/clarification furnished by you with respect to implementation of the above mentioned power project, EAC recommended for the amendment of the Environmental Clearance with respect to installation of FGD and change in coal source. The Ministry accepts the recommendations of the EAC and hereby amends the following conditions of the said Environmental Clearance.

- i. Specific condition 4(i) to be amended as "Ministry's Notification SO 3305(E) E(P) Amendment Rules, 2015 dated 07.12.2015 regarding revised emission standards for PM, SO₂, NO₂ and Hg shall be complied with and the same shall be achieved within two years from the date of publication of the notification for all Units-8, 9 & 10 (3x660 MW) i.e. on or before 07.12.2017."
- ii. Change in coal source from Machhakuta Coal Mines to Gare Palma Coal Sector-II Block, Mand Raigarh Coalfields, Raigarh District, Chhattisgarh is permitted.

- iii. Ministry's notification no.GSR 02(E) dated 02.01.2014 regarding supply of raw or blended or beneficiated coal with ash not exceeding thirty-four percent shall be implemented, as applicable.
- iv. The compliance of EC conditions shall be reviewed on quarterly basis. In this regard, a compliance mechanism shall be set up through Plant Head who is responsible for implementing the conditions stipulated in the Environmental Clearance, non-compliances and violations. Budget to implement various environmental pollution control measures as proposed in the EMP shall be kept in a separate account and shall not be diverted for any other purposes. Compliance reports shall be uploaded on company's website.
4. All other conditions mentioned in this Ministry's letter of even no. dated 04.01.2010 and 27.03.2015 shall remain the same, as applicable.

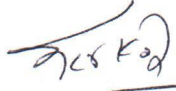
This issues with the approval of the Competent Authority.

Yours faithfully,


(Dr. S. Kerketta)
Director

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110001.
2. The Secretary, Department of Environment, Govt. of Maharashtra.
3. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
4. The Chairman, Maharashtra Pollution Control Board, Kalpataru Point, 3rd & 4th Floors, Sion Matunga Scheme Road No. 6, Opp. cine Planet, Sion Circle, Sion (E), Mumbai - 400 022.
5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
6. The Addl. Principal Chief Conservator of Forests (C), Ministry of Env., Forest and Climate Change, Regional Office (WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur- 440001.
7. The District Collector, Nagpur District, Maharashtra.
8. Guard file.


(Dr. S. Kerketta)
Director



No. J-13012/87/2007-IA.II (T)
Government of India
Ministry of Environment, Forests and Climate Change

3rd Floor, Vayu Block,
 Indira Paryavaran Bhawan, Jor Bagh Road,
 Aliganj, New Delhi-110003

Dated: 29.5.2018

✓ To

The Chief General Manager
 M/s Maharashtra State Power Generation Co. Ltd.
 (Formerly known as M.S.E.B)
 Corporate Environment Health & Safety Unit
 HDIL Towers, "A" Wing, 3rd Floor,
 Prof. A.K. Marg,
 Bandra (E), Mumbai- 400 051

Inward (E&S) No. 770
 Date: 14/05/2018

Ph: 022-26582424/26584225; Fax: 022-26477273

Sub: 3x660 MW Expansion of coal based power units at Koradi TPP, Distt. Nagpur, Maharashtra and 1x500 MW Coal based expansion project at Khaperkheda Thermal Power Station at Khaperkheda, Nagpur, Maharashtra by M/s. Maharashtra State Power Generation Company Ltd.- reg. amendment of ECs.

Sir,

This has reference to your online application nos. IA/MH/THE/24219/2010 dated 27.9.2017 and IA/MH/THE/10223/2005 dated 27.9.2017.

2. It has been noted that Environmental Clearance for 3x660 MW Koradi Thermal Power Plant has been issued vide Ministry's letter dated 4.1.2010. Further, validity of the said EC has been extended till 30.6.2016 vide Ministry's letter dated 27.3.2015. Further, an amendment in EC regarding change in coal source and meeting revised emission norms has been issued vide Ministry's letter dated 23.3.2017. Further, it has been noted that Environmental Clearance for 1x500 MW Khaperkheda Thermal Power Plant has been issued vide Ministry's letter dated 2.6.2010.

3. It has been noted that you have requested for amendment in EC for transporting the coal of approximately 7.35 MTPA through closed pipe conveyor for a length of 16.1 km from various mines of Western Coalfields Ltd to Koradi and Khaperkehda Power Plants. The coal requirement for 3x660 MW Koradi Power Plant and 1x500 MW Khaperkheda Power Plant is 10.11 MTPA and 2.5 MTPA respectively. It has been informed by you that the coal is being transported by road.

4. The total pipe conveyor length is 16.1 Km from Bhanegaon to Koradi TPP. The breakup of the proposed pipe conveyor length is as follows:

Sector	Distance
From Gondagaon mines to Bhanegaon IP	5.36 km
Bhanegaon IP to Khaparkheda TPP	2.84 km
Khaperkheda TPP to Koradi TPP	7.9 km
Total length of conveyor	16.1km

EE (Chakraborty)
 Putup
 15/6/18

5. Coal from WCL's Gondegaon, Kamptee & Inder mines will be taken from a single point feeding at Gondegaon to be provided by WCL. The combined coal from Gondegaon will be delivered at an intermediate junction point at Bhanegaon where coal from other two mines i.e. Singhori & Bhanegaon mines will also be fed. From this junction point, coal will be fed into Khaperkheda Power Plant. One diversion line is envisaged from Khaperkheda to Koradi plant replacing the existing ropeway route.

6. The designed capacity of the conveyor is 1200 TPH for all conveyors except two conveyors which will have capacity of 250 TPH. The details of mines along with the capacities are mentioned below:

Conveyors	Receipt of coal from mines	Total evacuation capacity	Capacity of conveyor
1001CCPC-1	Gondogaon	5.5 MTPA	1076 TPH*
	Kampte		
	Inder		
1003CCPC-1	Singhori	1.85 MTPA	316 TPH*
	Bhanegaon		

7. Total 2.79 Ha of private land will be purchased on mutual agreed terms. The proposed pipe conveyor will cross 3 rivers (Pench, Kanhan and Kolar) and 17 nallahs, 16 main roads, 13 HT lines and 20 HT lines. Proposed ESZ of Pench National Park and Mansingdev Wildlife Sanctuary is at 17.33 km. No forest land is involved in the proposed route.

8. Foundation for Pipe Conveyor supporting Trestles (Concrete Trestles approximately 5.5 m to 6.0 m from existing ground level @ 22.0 m have been considered and after every 110 m four legged concrete trestles are considered to transfer the longitudinal force to ground) and other trestles for inplant conveyor. The conveyor lift is 20 m and the pipe conveyor having diameter 45 cm will be placed on trestle. As part of conveyor system total 20 concrete pillars (8 in Pench, 8 in Kanhan and 4 in Kolar) will be constructed inside the river bed. Distance between two pillars is 36 m. The depth of the pillar foundation is 6-8 m inside the river bed. The river depth varies between 2.5-3.0 m. The cost of the project is Rs.516 Crores. Expected employment for the proposed activity is 30 people.

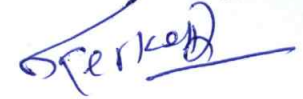
9. The matter was placed before the Re-constituted EAC (Thermal Power) in its 11th and 16th Meetings held 26.10.2017 and 19.4.2018 respectively. In acceptance of the recommendation of the EAC in its meeting held on 19.4.2018 and in view of the information/clarification furnished by you with respect to implementation of the above mentioned power project, the **Ministry hereby amends the Environmental Clearances dated 4.1.2010 and 2.6.2010 for transportation of coal by closed pipe conveyor for a length of 16.1 km and with a capacity of 7.35 MTPA from Gondegaon and Bhanegaon mines to Koradi Thermal Power Plant via Khaperkheda Thermal Power Plant** subject to the following additional conditions:

- Construction of pillars in the water bodies (Rivers and Nallahs) shall be carried out in the dry season only.
- Dust suppression system such as mist/dry fog jet sprinklers to be setup at the transfer points to arrest the fugitive dust emissions.
- For every tree cut along the proposed route in the non-forest area, guidelines of Forest (Conservation) Act, 1980 shall be followed in consultation with the local State Forest Department.
- Noise level shall be in accordance with the Noise Pollution Rules.

4. All other conditions mentioned in this Ministry's letter of even no. dated 4.1.2010, 27.3.2015, 23.3.2017 and 2.6.2010 shall remain the same, as applicable.

This issues with the approval of the Competent Authority.

Yours faithfully,



(Dr. S. Kerketta)
Director, IA.I

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110001.
2. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
4. The Addl. Principal Chief Conservator of Forests (C), Ministry of Env., Forest and Climate Change, Regional Office (WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur- 440001.
5. The Principal Secretary, Department of Environment, 15th Floor, New Administrative Building, Madam Cama Road, Mantralaya, Mumbai - 400032.
6. The Chairman, Maharashtra Pollution Control Board, Kalpataru Point, 3rd & 4th Floors, Sion Matunga Scheme Road No. 6, Opp. cine Planet, Sion Circle, Sion (E), Mumbai - 400 022.
7. The District Collector, Nagpur District, Maharashtra.
8. Guard file/Monitoring File.
9. Website of MoEF&CC.



(Dr. S. Kerketta)
Director, IA.I