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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
2nd Level, JAL Block

F. No. J-13012/54/2010-IA.II (T)

Date: 31st March, 2015

To

M/s NTPC Ltd.
NTPC Bhawan
SCOPE Complex
7, Institutional Area
Lodhi Road
New Delhi- 110 003

Subject: **Environmental Clearance to 2x660 MW Khargone Super Critical Thermal Power Project at Village Selda and Dalchi, Khargone District, Madhya Pradesh by M/s. NTPC Ltd.**

Sir,

This has reference to your letters dated 12.02.2015, 24.02.2015 and 26.02.2015 on the subject mentioned above. The Ministry has examined the application for environment clearance for this project. It is noted that the ToR for preparation of EIA/EMP report was accorded by the Ministry on 9th December, 2010 and due to expiry of the validity period for these ToR, fresh ToR was accorded on 25th July, 2014. Public Hearing for the project was conducted by the MPPCB on 24th January, 2012.

2. The land requirement for the project is about 1370 acres of which about 1081.58 acres is already in possession of NTPC. The remaining land shall be acquired and R&R shall be involved in the project. The Latitude and Longitude of the Main Plant, Ash dyke and Township are: 22°03'11" N-22°04'13" N, 22°03'11" N-22° 04'13" N, 22°04'18" N -22° 04'44" N and 75°50'49" E-75°52'26" E, 75°49'52" E-75°50'58" E, 75° 51'25" E-75°52'00" E respectively. There are no National Parks, Wildlife Sanctuaries, Biosphere/Elephant/Tiger Reserves, Heritage sites within 10 km of the project site. There are no major settlements within 5 km from the proposed site and no major industries within 10 km. Nearest railway station is Sanawad on Indore-Khandwa meter gauge about 30 km and Indore- Khandwa SH-27 is about 30 km from the site. Land rate and R&R benefits package was approved by Cabinet, GoMP on 12.09.2012 in consultation with stakeholders. There is no tribal population among the affected families. The project cost is about Rs. 9,181 Crores and the cost towards environmental protection is about Rs. 1,421.2 Crores.



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3. The coal requirement will be about 6.51 MTPA and will be met from Pakribarwadih captive coal block. Environment and Forest Clearances for the coal block were accorded by the Ministry on 19.05.2009 and 17.09.2010 respectively. The Sulphur content and ash content in the coal will be 0.4% - 0.5% and 40 - 43% respectively. The coal transportation shall be by Rail. The water requirement of 3800 cum/hr will be sourced from Omkareshwar dam on Narmada River. Govt. of Madhya Pradesh vide letter dated 02.02.10 has accorded commitment for 55 Cusecs of water from Narmada River for the project. CWC had also accorded concurrence for the withdrawal vide letter dated 27.07.2012. The plant would be designed on zero discharge concept in normal circumstances. Water requirement for the Project shall be optimized with designed COC of 5 for conservation of water. The fly ash utilization/management shall be done as per MOEF Gazette Notification on utilization of fly ash dated 03.11.2009. It is estimated that about 8000 tonne/d i.e. about 2.60 MTPA of fly ash would be produced in the power generation process.

4. Based on the information submitted by you to the Ministry and presentations made by you and your consultant namely M/s Vimta Labs, Hyderabad before the Expert Appraisal Committee (Thermal Power) in its 32nd Meeting held during February 23rd- 24th, 2015, the Ministry hereby accords environmental clearance to the above project under the provisions of Environment Impact Assessment Notification dated September 14, 2006 and amendments therein subject to the compliance of the following Specific and General conditions:

A. Specific Conditions:

- (i) Coal transportation shall be by Rail only. An additional EIA shall be carried out and an EMP shall be prepared for laying down the rail line and alternate mode of transportation, in case rail line gets delayed. The EIA/EMP shall be submitted to the Ministry within one year of issuing the EC.
- (ii) The Sulphur and ash content of coal shall not exceed 0.5 % and 43 % respectively. In case of variation of quality at any point of time, fresh reference shall be made to the Ministry for suitable amendments in the environmental clearance.
- (iii) Latest authenticated satellite imagery shall be submitted to the Regional Office of the Ministry on an annual basis to monitor the environmental alterations of the area.



- (iv) Vision document specifying prospective plan for the site shall be formulated and submitted to the Regional Office of the Ministry within **six months**.
- (v) Harnessing solar power within the premises of the plant particularly at available roof tops shall be carried out and status of implementation including actual generation of solar power shall be submitted along with **half yearly monitoring** report.
- (vi) One twin flue stack of 275 m height shall be provided with continuous on-line monitoring system for SO_x, NO_x and PM_{2.5} & PM₁₀. Exit velocity of flue gases shall not be less than 22 m/sec. In addition to the regular parameters, Mercury emission from stack shall also be monitored on **six monthly** basis.
- (vii) High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm³. Adequate dust extraction system such as cyclones/bag filters and water spray system to control fugitive emissions in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.
- (viii) COC of atleast 5.0 shall be adopted.
- (ix) Monitoring of surface water quantity and quality shall be conducted regularly and records shall be maintained. The monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records shall be maintained. The monitored data shall be submitted to the Ministry **every six months**.
- (x) Monitoring for heavy metals in ground water in the vicinity of plant shall also be undertaken and monitoring report shall be submitted to the Ministry **every six months**.
- (xi) A well designed rain water harvesting system shall be put in place within six months, which shall comprise of rain water collection from the built up and open area in the plant premises and records shall be kept for the quantity of water harvested **every year** and its use.
- (xii) No water bodies including natural drainage system in the area shall be disturbed due to activities associated with the setting up / operation of the power plant.
- (xiii) Hydrogeology of the area shall be reviewed annually through an institute/ organization of repute to assess impact of surface water and ground water (especially around ash dyke). In case, any deterioration is



