



# टीएचडीसी इंडिया लिमिटेड THDC INDIA LIMITED

(भारत सरकार एवं उ.प्र.सरकार का संयुक्त उपक्रम)  
(A Joint venture of Govt. of India & Govt. of UP)  
CIN : U45203UR1988GOI009822



सं० टीएचडीसी/वृ०/मा० एवं पर्या०/फ०-400/16० (E)

दिनांक: 01.12.2017

सेवा में,

सूचि अनुसार,

विषय: 2<sup>nd</sup> Six monthly progress report (Jun' 2017 – Nov' 2017) on environmental aspects of of 2 × 660 MW Khurja Super Thermal Power Project at Villages Dushhara Kherli, Jahanpur, Naiphall and Rukanpur Khurja Taluk, Bulandshahar Distt. Uttar Pradesh by THDC India Limited - reg.

Sir,

In compliance to Point (xiv) of Part B: General Conditions of Environment Clearance letter No. J-13012/100/2011-IA.II(T) dtd. 30.03.2017 issued by MoEFCC, please find enclosed herewith the 2nd Six monthly progress report (Jun' 2017 -- Nov' 2017) on environmental aspects of of 2 × 660 MW Khurja Super Thermal Power Project for kind consideration.

Thanking You.

संलग्नक: उपरोक्तानुसार

  
01/12/2017

(डॉ. डी. एल. मंड)

उप महाप्रबंधक (पर्यावरण)

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पंजीकृत कार्यालय : भागीरथी भवन (टॉप टैरिस), भागीरथीपुरम, टिहरी गढ़वाल-249001  
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("हिन्दी को राजभाषा बनाना, भाषा का प्रश्न नहीं अपितु देशभिमानी का प्रश्न है")

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प्रतिलिपि: (मूलप्रति में नहीं)

- 1.) मुख्य महाप्रबंधक (सामाजिक एवं पर्यावरण)  
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## Compliance to Environment Clearance Conditions

S.No	Compliance Condition	Current Status
<b>A-Specific Conditions</b>		
1	As per the Revised Tariff Policy notified by Ministry of Power vide dated 28-01-2016, project proponent shall explore the use of treated sewage water from the Sewage Treatment Plant of Monicapacity/local bodies/similar organization located within 50 Km radius of the proposed power project to minimize the water drawl from the River Ganga.	Shall be Complied with
2	Compliance of EC Conditions, E(P) Act, 1986, MoEF &CC Notifications, Rules, Regulations and Guidelines issued time to time shall be done by an Environment Compliance Officer to be nominated by Head of the Company who shall be responsible for compliance and implementations of EC conditions.	The HoD of Corporate Environment Deptt. has been appointed as Environment Compliance Officer by CMD.
3	Greenbelt development shall be developed in 400 acres with native and indigenous species to maintain 33% of the land green. Greenbelt plan shall be formulated in consultation with local Forest Department and submitted to the Ministry and its Regional Office for monitoring. The budget of Rs. 5 Crores for greenbelt shall be accordingly revised in consultation with forest Department. No herbs and shrubs shall be planned. Only tall seedlings shall be planted. Greenbelt development shall start during construction period.	The Project layout considering 400 acres greenbelt development shall be reviewed at detailed Engineering Drawing stage. Plantation activity shall be taken-up in consultation with Forest Department.
4	Hydrogen plant shall be shifted away from Uncha Gaon. Minimum of 500 m distance shall be maintained from the village. The layout indication relocation of Hydrogen plant shall be submitted to the Ministry and its Regional Office.	The Project layout shall be reviewed considering the shifting of Hydrogen Plant to suitable distance as per stipulated condition of EC.
5	Need based assessment study shall be conducted for implementing CSR activities. Company shall provide Guest teachers to the surrounding Govt. schools	Shall be Complied with
6	Alternate technologies for Flyash utilization such as road making using geopolymers shall be explored in consultation with director AMPRI, Bhopal/DG CSIR. Use of ash dyke shall be minimized.	Shall be Complied with
7	Separate environmental clearance may be obtained for township construction under EIA Notification, 2006 and its amendments, as applicable.	As per EIA Notification, 2006, Prior Environment Clearance for Townships and Area Development projects is required if the total plot area is greater than or equal to 50 hectares. In case of Khurja STPP, the township is proposed to be develop in an area less than 50 hectares. Hence, no prior EC is required.
8	MoEF&CC Notification S.O. 330(E) dated 7.12.2015 shall be implemented with emission standards. The PM, SO <sub>2</sub> , NO <sub>x</sub> and Hg emissions shall not exceed 30 Mg/Nm <sup>3</sup> , 100 Mg/Nm <sup>3</sup> and 0.3 mg/Nm <sup>3</sup> respectively. The specific water consumption shall not exceed 2.5 M <sup>3</sup> /NW/h and zero wastewater discharge shall be achieved.	Shall be Complied with

9	MoEF&CC Notification GSR 02 (E) dated 2.1.2014 regarding use of raw or blended or beneficiated or washed coal with ash content not exceeding 34% shall be complied with as applicable.	As per GR report of Amelia Coal Mine, ash content of coal to be used in plant contains ash content less than 34% and same shall be ensured by THDCIL during operation phase of the Project.
10	MoEF&CC Notifications on flyash utilization S.O. 763(E) dated 14.09.1999, S.O. 25.01.2016 and subsequent amendments shall be complied with.	Shall be Complied with.
11	Necessary permission from Water Resource Department shall be obtained for diversion of diverting the Aligarh natural drain from the project site.	Matter in under persuasion with UPID, Aligarh.
12	Vision document specifying prospective plan for the site shall be formulated and submitted to the Regional Office of the Ministry within six months.	Vision document has been submitted on 28.09.2017.
13	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.	Necessary provision for harnessing of solar power shall be made at detailed engineering stage.
14	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 analyzed every two year and reported along with 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.	Shall be complied with.
15	Online continuous monitoring system for stack emission, ambient air and effluent shall be installed.	The provision has been made in the EMP of project and shall be complied during the operation of the project.
16	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 30 mg/Nm <sup>3</sup> or as would be notified by the Ministry, whichever is stringent. 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 along with an environment friendly sludge disposal system.	The provision has been made in the EMP of project and shall be complied during the operation of the project.
17	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.	The provision has been made in the EMP of project and shall be complied during the construction / operation of the project.
18	Monitoring of surface water quantity and quality shall also be regularly conducted and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall also be undertaken and results/findings submitted along with half yearly monitoring report.	Shall be complied with.



19	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 detailed record kept of the quantity of water harvested every year and its use.	Provision of Rain Water Harvesting System has already been provided in EIA/EMP report. Detailed engineering of the same shall be carried out after award of main packages of the Project.
20	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 except the Aligarh drain passing through ash pond proposed for diversion without affecting the natural drainage.	Shall be complied with.
21	Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.	Shall be complied with.
22	Fly ash shall be collected in dry from and storage facility (silos) shall be provided. Mercury and other heavy metals (As, Hg, Pb etc.) shall be monitored in the bottom ash. No ash shall be disposed off in low lying area.	Shall be complied with.
23	No mine void filling will be undertaken as an option for ash utilization without adequate lining of mine with suitable media such that no leachate 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 adequate clay lining shall be ascertained by the State pollution Control Board and implementation done in close co-ordination with the State Pollution Control Board.	Shall be complied with.
24	Fugitive emission of fly ash (dry or wet) shall be controlled such that no agricultural or non-agricultural land is affected. Damage to any land shall be mitigated and suitable compensation provided in consultation with the local panchayat.	Shall be complied with.
25	Green Belt consisting of three tiers of plantations of native species all around plant and at least 50 m width shall be raised. Wherever 50 m width is not feasible a 20 m width shall be raised and adequate justification shall be submitted to the Ministry. Tree density shall not be less than 2500 per ha with survival rate not less than 80%.	Shall be complied with.
26	Green belt shall also be developed around the ash pond over and above the Green Belt around the plant boundary.	Shall be complied with.
27	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.	The Corporate Environment policy is already in place and complied with.

28	<p>CSR schemes identified based on need based assessment shall be implemented in consultation with the village Panchayat and the District Administration starting from the development of project itself. As part of CSR prior identification of local employable youth and eventual employment in the project after imparting relevant training shall be also undertaken. Company shall provide separate budget for community development activities and income generating programmes.</p>	<p>Budget Provision of Rs. 33.20 Cr has been made in EMP for local area / community development activities and action has been initiated by THDCIL for the same.</p>
29	<p>For proper and 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. This evaluation shall be both concurrent and final.</p>	<p>Provisions has been made in EMP and shall be complied with.</p>
<b>B-General Conditions</b>		
1	<p>The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant. Arrangements shall be made that effluents and storm water do not get mixed.</p>	<p>Provisions has been made in EMP and shall be complied with.</p>
2	<p>A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation.</p>	<p>Shall be complied with</p>
3	<p>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.</p>	<p>Shall be complied with.</p>
4	<p>Storage facilities for auxiliary liquid fuel such as LDO/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.</p>	<p>Shall be complied with.</p>
5	<p>First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.</p>	<p>Shall be complied with.</p>
6	<p>Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 85 dB(A) from source. 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 are, 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.</p>	<p>Shall be complied with.</p>

7	<p>Regular monitoring of ambient air ground level concentration of SO<sub>2</sub>, NO<sub>x</sub>, PM<sub>2.5</sub> &amp; PM<sub>10</sub> and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed to 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.</p>	<p>Shall be complied with.</p>
8	<p>Utilization of 100% fly ash generated shall be made from 4th year of operation. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.</p>	<p>Shall be complied with.</p>
9	<p>Provision shall be made for the housing of construction labor (as applicable) 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.</p>	<p>Shall be complied with.</p>
10	<p>The project proponent shall advertise in the 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 the Website of MoEF&amp;CC at <a href="http://envfor.nic.in">http://envfor.nic.in</a></p>	<p>The Advertisement has been published in national and local newspaper on Apr' 2017</p>
11	<p>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, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.</p>	<p>Copy of Environment Clearance letter was sent to all concerned. Same was available on company's website.</p>
12	<p>The proponent shall upload the status of compliance of the stipulated environmental clearance 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, SPM, RSPM (PM<sub>2.5</sub> &amp; PM<sub>10</sub>), SO<sub>2</sub>, Nox (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.</p>	<p>Shall be complied with.</p>
13	<p>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 environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.</p>	<p>Shall be complied with.</p>



14	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to MoEF&CC, its Regional office, Central Pollution Control Board and State pollution control Board. The project proponent shall upload the status of compliance 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, MoEF&CC.	First six monthly report has been submitted to all the concerned offices vide letter dtd. 31.10.2017.
15	The progress for the project shall be submitted to CEA on six monthly basis.	Shall be complied with.
16	Regional Office of the MoEF&CC 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 same from time to time at last six monthly basis. Criteria pollutants levels including NOx (from stack & ambient air) shall be displayed at the main gate of the power plant.	Shall be complied with
17	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.	A budget provision of Rs. 1783.5 Cr was made for Environmental Protection measure.
18	The project authorities shall inform the Regional office as well as the Ministry regarding the date of financial closure and final approved of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.	Shall be complied with.
19	Full cooperation shall be extended to the Scientists/Officers from the Ministry/Regional Office of the Ministry/Regional office of the Ministry/CPCB/SPCB who would be monitoring the compliance of environmental status.	Shall be complied with.
C		
1	An as built or as completed report on EMP to be submitted stating the scope/extent of work envisaged in the EIA along with estimated cost vis-à-vis the actual completed works and cost incurred. A certificate/completion certificate accordingly, shall have to be submitted before commissioning of the TPP.	Shall be complied with.