



# RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LTD.

Corporate Identity Number (CIN) – U40102RJ2000SGC016484

Regd. Office & H.O.: Vidyut Bhawan, Janpath, Jyoti Nagar, Jaipur – 302005

## CHHABRA THERMAL POWER PROJECT

Service Building, room no 301 Chowki Motipura, Chhabra, District Baran – 325220

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No: RVUNL/CTPP/SE (Comml)/F. /D.- 394

Date 01/02/2022

To,

The Chief Engineer (PPMC& IT)  
R. No. 307, 3<sup>rd</sup> Floor, Rajasthali Mall,  
Ajmeri Gate, M I Road,  
Jaipur – 302003

**Sub: Submission Monthly Compliance of Environment Clearance (EC) Conditions by Thermal power Plants.**

**Ref: i. Your email on dated 7 august 2020**

**ii. letter No. CE(PPMMC&IT)/SE(PP)/.EC Compliance / D. 937 Dt 14.08.20.**

Sir,

With reference to the above cited subject, kindly find enclosed herewith the Monthly compliance report up to Jan- 22 for Environment conditions of MoEF of Unit# 1, 2, 3 & 4 in respect of Chhabra, Thermal Power Project for further needful please.

Encl: As above

(Girish Kr. Narkhede)

Superintending Engineer (Comml.)

CTPP, RVUN, Chhabra.

Copy Submitted / forwarded to the following for kind information & necessary action please.

1. The Chief Engineer (O&M), RVUN, Chhabra.
2. The Chief Engineer (Civil -Env.), RVUN, Jaipur.
3. The Addl. Chief Engineer (O&M -I/II), RVUN, Chhabra.
4. The Dy. Chief Engineer (Comml.-CHP) CTPP, RVUN, Chhabra

Superintending Engineer (Comml.)

CTPP, RVUN, Chhabra.

**COMPLIANCE OF MOEF CONDITIONS (Unit #3&4)**

S. No.	<u>Conditions for compliance</u>	<u>Action taken up to Jan 22</u>
<b>3.</b>	The proposal has been considered in accordance with para 12 of the EIA notification dated 14 <sup>th</sup> September'2006 read with para 2.2.1 (i) (a) of the circular no. J-11013/41/2006-IA.II(I) dated 13.10.06. Based on the recommendation of the Expert Appraisal Committee for Thermal Power & Coal Mine Project, the Ministry of Environment & Forest hereby accords environmental clearance to the said Project under the provision of EIA notification 2006, subject to implementation of the following terms & condition:-	
i	No additional land in excess of 527 ha shall be acquired for any activity of the project.	Noted
ii	Coal with Ash content not exceeding 34% and sulphur content not exceeding 0.4% shall be used.	Not exceeding as washed coal is being used.
iii	A single stack of 220 m height with exit velocity of at least 20 m/s shall be provided with continuous online monitoring system.	Being followed
iv	High efficiency Electrostatic Precipitator (ESPs) having efficiency of 99.9% shall be installed so as to ensure that particulate emissions do not exceed 100 mg/ Nm <sup>3</sup> .	Being followed/Incorporated in specification.
v	Space provision shall be made for installation of FGD of requisite efficiency of removal of So <sub>2</sub> , if required at a later stage.	Shall be provided.
vi	No additional water in excess of the allocated quantity of 38500 m <sup>3</sup> / day shall be withdrawn for the project for any use. No groundwater shall be extracted for the project.	Agreed and followed
vii	Closed circuit Cooling System with cooling towers and COC of not less than 4.5 shall be adopted.	Followed
viii	There shall be zero discharge outside that plant boundary. The treated effluents conforming to the prescribed standards shall be re-circulated and reused with in the plant boundary.	incorporated in specification.





  


ix	100 % Fly Ash shall be collected in dry form and utilized from the day of commissioning of the plant. Bottom ash will be disposed in the form of high concentration slurry in the ash pond which shall be common for Phase-I and Phase-II. The bottom ash shall be transported through conveyor belt. Bottom ash/ pond ash/ fly ash will be disposed / utilized as per the provision of Fly Ash Notification of 1999 as amended in 2003.	MOU signed with M/s Grasim Industries Ltd. for Fly ash utilisation. The disposal of bottom ash shall be done as suggested & the installed system is having all these facilities.
x	Regular monitoring of ground water quality including heavy metals shall be undertaken around the ash pond area to ascertain the charges, if any in the water quality due to leaching of contaminants from the existing ash disposal area.	Shall be arranged. However it is mentioned that there is not any wet disposal (in the slurry form) of Bottom/Fly ash
xi	Noise levels shall be limited to 75 dBA. For people working in the high noise area, protective devices such as earplugs etc. shall be provided.	Followed
xii	Out of the total area of 527 ha for Phase-I and Phase-II put together an area of 173 ha shall be covered under greenbelt.	Followed
xiii	Regular monitoring of the air quality shall be carried out in and around the power plant and records shall be maintained. The location of the monitoring station and frequency of monitoring shall be decided in consultation with SPCB Six monthly report shall be submitted to this Ministry and its Regional Office at Lucknow.	Followed
xiv	For controlling fugitive dust, regular sprinkling of water in vulnerable areas of the plant shall be ensured.	Incorporated in specification.
xv	The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which should be in the vernacular language of the locality concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board/Committee and may also be seen in the Website of the	Already published on 28.05.08.

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xvi	Ministry of Environment and Forests in the <a href="http://envfor.nic.in">http://envfor.nic.in</a> . A separate environment monitoring cell with suitable qualified staff should be set up for implementation of the stipulated environmental safeguards.	Separate cell already exists at Project level headed by the Executive Engineer (PE&E). office of the DY.CE(Comm1) Shall be ensured.
xvii	Half yearly report on the status of implementation of the conditions and environmental safeguards should be submitted to this Ministry, its Regional Office, CPCB and SPCB.	
xviii	Regional Office of the Ministry of Environment & Forest located at Lucknow will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Management Plan should be forwarded to the Regional Office for their use during monitoring.	Noted
xix	Separate funds should be allocated for implementations of environmental protection measures along with item-wise break-up. These cost should be included as part of the project cost. The funds earmarked for the environment protection measures should not be diverted for other purposes and year- wise expenditure should be reported to the Ministry.	Noted.
xx	Full Co-operation should be extended to the Scientist/Officer from the Ministry and its Regional Office at Lucknow/the CPCB/the SPCB during monitoring of the project.	CTPP will extend full cooperation to all these officers.

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4	The Ministry reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry.	Noted
5	The environmental clearance accorded shall be valid for a period of 5 years for starting construction/operation of the power plant.	Noted
6	In case of any deviation or alteration in the project proposed from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of the condition(s) imposed and to add additional environmental protection measures required, if any.	Noted
7	The above stipulations would be enforced along with the once 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 the rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.	Noted

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## COMPLIANCE OF MOEF CONDITIONS (Unit #1&2)

S. No.	Conditions for compliance	Action taken up to Jan 22
3.	On the basis of information submitted and after its consideration by the Expert Committee for Thermal Power Project, Ministry of Environment & Forest hereby accords environmental clearance for setting up of Unit 1&2 under Phase 1 of 500 MW (2x250MW) Thermal Power Project at Chhabra subject to effective implementation of following conditions and safeguards.	
i.	The conditions stipulated by Rajasthan State Pollution Control Board vide their letter no. F.12(24-13)RPCB/Gr-I/6206 dated 27.10.2005 shall be strictly implemented.	Followed strictly
ii.	Coal linkage for project shall be obtained before starting construction of the plant and a copy shall submitted to this Ministry.	Allocation of coal is from SECL, Korba. Washed Coal being used in Unit #1&2.
iii.	Ash and Sulphur content in the coal shall not exceed 40% and 0.5% respectively.	Not exceeding as washed coal is being used.
iv.	R&R plan shall be finalized within three months in accordance with the norms prescribed in the National R&R Policy. A copy of the same shall be furnished to this Ministry.	No residential area acquired for project and R&R policy pertains to RVUN Corporate Office.
v.	It shall be ensured that a distance of 500m from the railway track is left free from any type of construction/activity relating to the project except for the development of greenbelt or greenery.	Ensured
vi.	A bi-flue stack of 220m height shall be provided with continuous on-line monitoring system. Exit velocity of not less than 20 m/sec. shall be maintained. Data collected shall be analyzed and submitted regularly to the Regional office of this Ministry at Lucknow.	Provided
vii.	Electrostatic Precipitators (ESPs) with 99.9% efficiency shall be installed. It shall be ensured that particulate emission from the stack does not exceed 100 mg/Nm <sup>3</sup> . The system for automatic shut down of power plant, in the event of non-functioning of ESPs shall be	ESP has been provided with required efficiency and to ensure particulates for emission from stack shall be monitor through Stack Monitoring System. Provision have been made for interlocking the production system with Pollution Control devices.

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	installed.	Continuous power supply to the Pollution Control equipment is ensured.
viii.	For controlling fugitive dust, regular sprinkling of water in coal storage area and other vulnerable areas of the plant shall be ensured.	Completed.
ix.	Regular monitoring of the air quality shall be carried out in and around the power plant and record shall be maintained. Six monthly report shall be submitted to this Ministry and its Regional Office at Lucknow.	Being maintained monitored
x.	Leq. of Noise level should be limited to 75 dBA. For people working in the high noise areas, requisite personal protection equipment (PPQ) like earplugs etc shall be provided.	Ensured
xi.	Closed Circuit Cooling System with a COC of 4.5 or more shall be adopted.	IDCT with required COC provided
xii.	Treated effluents conforming to the prescribed standards shall be recirculated and reused with in the plant. No effluents shall be discharged outside the plant boundary except during monsoon season.	Complied, ETP have been installed and running successfully.
xiii.	Rainwater harvesting shall be adopted. Central Groundwater Authority/Board shall be consulted for finalization of appropriate waster harvesting technology within a period of three months from the date of issue of this clearance letter.	Implemented as per provision.
xiv.	Fly Ash shall be collected in dry form and bottom ash shall be disposed in the ash pond area. The land for the ash disposal area shall not exceed 100 ha. For both the phases put together. It shall be ensured that there is no leaching from the ash pond area. Regular monitoring of under ground water around the ash pond area shall be carried out to ascertain the change in the quality of ground water, if any. Immediate remedial measure shall be taken in case of any deterioration in the ground water quality.	Dense Phase Fly Ash System provided M/s GIL & M/s Shree Cement are lifting the Fly Ash for their cement plant as per MOU 100% utilization shall be ensured.

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xv.	100% ash utilization shall be ensured by making use in cement industry or by back filling in the mines in accordance with the fly ash notification S.O. 763(E) dated 14 <sup>th</sup> September'1999 and its subsequent amendments.	Dense Phase Fly Ash System provided M/s GIL & M/s Shree Cement are lifting the Fly Ash for their cement plant as per MOU 100% utilization shall be ensured.
xvi.	One third of the total plant area shall be developed as green belt. This will be developed all around the power plant and the ash pond area.	Plantation work completed for developed all around the power plant and the ash pond area.
xvii.	First Aid and sanitation arrangement shall be made available for truck drivers and temporary staff.	Completed
xviii.	The project proponent shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned, informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board/Committee and may also be seen at website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> .	Published on 11.03.2006
xix.	A separate environment monitoring cell with suitable qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Separate cell existing at Project level headed by the Executive Engineer (PE&E) office of the Dy. CE(Comm).
xx.	Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to this Ministry/Regional Office/CPCB/SPCB.	Shall be furnished as per requirement.
xxi.	Regional Office of the Ministry of Environment & Forest located at Lucknow will monitor the implementation of the stipulated conditions. Complete set of Environmental Impact Assessment Report and Management Plan shall be forwarded to the Regional Office for their use during monitoring.	Pertain to PPC &F, EIA reports furnished.

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xxii.	Separate funds should be allocated for implementation of environmental protection measure 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 shall be reported to the Ministry.	Suitable provision has been kept in project cost. During O&M earmarked provision kept in budget for proper implementation.
xxiii.	Full cooperation should be extended to the Scientists/Officers from the Ministry/Regional Office of the Ministry at Lucknow/the CPCB/the SPCB who would be monitoring the compliance of environmental status.	Noted & being provided.
4	The Ministry reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry.	Noted
5	The environmental clearance accorded shall be valid for a period of 5 years for starting construction/operation of the power plant. In case, if the project authorities fails to do so within this stipulated period, this environmental clearance shall stand lapsed automatically.	Noted
6	In case of any deviation or alteration in the project proposed from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry.	Noted
7	The above stipulations would be enforced along with the once under the Water (Prevention and Control of Pollution) Act,1974, the Air (Prevention and Control of Pollution) Act,1981, the Environment (Protection) Act,1986, the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989, the Hazardous Wastes (Management and Handling) Rules, 1989, the Public Liability Insurance Act,1991, the Environment Impact Assessment Notification of January,1994 and their amendments.	Noted

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