

**MINUTES OF THE 11<sup>th</sup> MEETING OF THE RE-CONSTITUTED EXPERT APPRAISAL COMMITTEE (EAC) ON ENVIRONMENTAL IMPACT ASSESSMENT (EIA) OF THERMAL POWER PROJECTS HELD ON 28<sup>th</sup> MAY, 2021**

The 11<sup>th</sup> Meeting of the re-constituted EAC (Thermal Power) organized by the Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi was held on 28<sup>th</sup> May, 2021 through videoconference under the Chairmanship of Shri Gururaj P. Kundargi. The list of Members participated in the meeting is at **Annexure**.

**Agenda Item No.11.1: Confirmation of the Minutes of the 10<sup>th</sup> EAC meeting**

The Minutes of the 10<sup>th</sup> EAC (Thermal Power) meeting held on 6<sup>th</sup> May, 2021 were confirmed in the meeting.

**Agenda Item No.11.2: 2x30 MW captive power plant in an area of 43.95 acres (Existing area in Plant) by M/s Trident Ltd at Budhni Industrial Area, Village Budhni, Tehsil Budhni, District Sehore (Madhya Pradesh) – Amendment in Environmental Clearance – Reg.**

**[Proposal No. IA/MP/THE/206344/2021; F. No. J-13012/31/2013-IA.I (T)]**

**11.2.1** The proposal is for amendment and extension in validity of Environmental Clearance dated 23<sup>rd</sup> September, 2014 granted by Ministry to 2x30 MW captive power plant in an area of 43.95 acres (Existing area in Plant) by M/s Trident Ltd at Budhni Industrial Area, Village Budhni, Tehsil Budhni, District Sehore (Madhya Pradesh)

**11.2.2** The details of the project submitted by project proponent and ascertained from the document submitted are mentioned below:

- (i) Project site is located at Village Budhni, Tehsil Budhni, Dist. Sehore in the state of Madhya Pradesh. Its graphical coordinates are Latitude 77°40'9.52"E; 22°46'5.49"N.
- (ii) Trident Group is one of the India's leading and flourishing textile house, an INR 5000 crores global conglomerate. Trident Limited, the flagship company of the group is one among the top 5 global terry towel giants of the world. The Group operates in three main business segments: Textiles, Paper and Chemicals.
- (iii) In order to meet the power as well as steam requirements, Trident Limited (TL) had obtained Environmental Clearance (EC) to set up a captive cogeneration power plant (CPP) within the existing textile plant at Trident's Budhni operations.

- (iv) The project was accorded the Environmental Clearance (EC) for the coal based Captive co-generation Plant (CPP) of 60 MW (2X30 MW) by MoEF&CC vide letter no: J- 13012/31/2013/IA.1 (T), dated 23<sup>rd</sup> September 2014. Subsequently, EC amendment was granted dated 04.07.2017 for changing capacity from 2 x 30 MW to 1 x 60 MW. Afterwards, again amendment in EC was accorded dated 07.07.2017 for revising the Environmental clearance to 2 x 30 MW.
- (v) The proposal in its normal terms as per EIA Notification, 2006 and its amendments will fall under Schedule 1 (d), Category B project (< 500 MW). However, as the project attracts general condition of presence of protected area (Ratapani Wildlife Sanctuary) notified under the Wild Life (Protection) Act, 1972 within the 10 km project radius, therefore project was granted clearance under Category A. Ecological Sensitive Zone (ESZ) Ratapani Wildlife Sanctuary is 6.3 km and Ecological Sensitive Area (ESA) Ratapani Wildlife Sanctuary, is 8.1 km North west of project site.
- (vi) The total area of the complex covers nearly about 790 acres whereas the area required for the proposed project is 43.95 acres. The existing available vacant land will be utilized for setting up the CPP.
- (vii) Revised cost of the project has been decreased from Rs 377.85 Crores to Rs 185.78 Crores, which includes Rs 30 Crores as an EMP budget.
- (viii) **Project Details** of proposed project (1 x 16.8 MW) includes the following:
  - a) The proposed cogeneration plant scheme envisages the installation of one No. (1) Circulating Fluidized Bed Combustion (CFBC) type high pressure boiler of capacity 118 TPH with the super heater outlet steam parameters of 110 atm and 540° C.
  - b) One (1) No. extraction-cum-condensing turbo generator with water cooled condenser of 16.8 MW capacity, operating with the steam inlet parameters of 105 atm and 535° C.
  - c) The boiler and the turbo generator will be installed with all the necessary auxiliary plants and systems required for the efficient operation of the Cogeneration plant.
  - d) Cooling water system, water treatment plant system, condensate system, compressed air system, electrical system consisting of switchgears, LT distribution panels, Aux. Transformers and Distributed Control System (DCS) for meeting the in-house power requirement.
  - e) Based on the availability of rice husk, it is proposed to fire 30 % rice husk along

with 70 % Indian coal.

- f) The proposed co-generation plant can supply the anticipated maximum process steam requirement up to 75 TPH.
  - g) The existing steam boilers of capacity 2x35 TPH will be kept as standby.
  - h) Out of the process steam supplied to the process, on an average, about 20% of the steam will be returned to power plant as steam condensate.
- (ix) As the project capacity is coming down by 72%, the requirements of raw materials envisaged are lesser and eventually pollution load as well. Details are briefed below:
- a) Reduction in capacity of turbo generator from 2 x 30 MW to 1x16.8 MW. Capacity of CFBC boiler will reduce from 150 TPH to 118 TPH.
  - b) Total coal requirement anticipated for the project based on 100% coal consumption (worst case) is 1,50,000 TPA against the previous requirement indigenous coal of 4,20,000 TPA.
  - c) Fresh water requirement will be 3371 m<sup>3</sup>/day against the previous requirement of 6,600 m<sup>3</sup>/day. The wastewater generated due to the proposed project is about 1210 m<sup>3</sup>/day as against EC 2014 value of 1440 m<sup>3</sup>/day.
  - d) Use of electrostatic precipitators capable of limiting stack emission under 50 mg/Nm<sup>3</sup> to 30 mg/Nm<sup>3</sup>. Stack height used will be 68 m instead of 100 m.
  - e) Expected Ash generation will limit to 50,000 TPA comparing with previous amount of 1,40,000 TPA.
  - f) It is evident from the air quality modelling study that pollution load of SO<sub>2</sub>, NO<sub>x</sub>, PM coming out after passing through the control device will have emission values as 13.5 µg/m<sup>3</sup>, 2.96 µg/m<sup>3</sup> and 0.95 µg/m<sup>3</sup> respectively. This is a significant reduction in pollution load against the previous reported values of 30.77 µg/m<sup>3</sup>, 6.78µg/m<sup>3</sup> and 2.13 µg/m<sup>3</sup>. Also, values predicted are within permissible limits prescribed by NAAQ.
- (x) Source of water required for the unit will be met from Narmada River. Total usage of fresh water will be 3371 m<sup>3</sup>/day. Envisaged wastewater will be treated in Effluent Treatment Plant and will be reused for different purposes within the facility such as bottom ash handling and fly ash conditioning operations, dust suppression and green belt development.
- (xi) No increase in operational noise is anticipated due to the proposed plant.

- (xii) The total ash quantity generated in the boiler while firing 100% Indian coal shall be about 6 TPH. Out of this, fly ash shall be 4 TPH and Bed ash shall be 2 TPH. All the ash will be collected in storage silos and the ash will be disposed off by trucks/trailers to cement/brick manufacturing units through vendors.
- (xiii) **Reason for change in configuration:** Due to project feasibility issues, the Project proponent has undertaken a detailed project study to recheck the requirements in line with the future needs. Accordingly, a 16.8 MW cogeneration plant is proposed. Therefore, referring to the EIA Notification and its amendments, the proposed change in capacity from 2 x 30 MW to 1 x 16.8 MW needs to obtain EC amendment (change in fuel) as well as EC extension in the existing EC.

**11.2.3** The EAC during deliberations noted the following:

- a) The proposal is for amendment and extension in validity of Environmental Clearance dated 23<sup>rd</sup> September, 2014 granted by Ministry to 2x30 MW captive power plant in an area of 43.95 acres (Existing area in Plant) by M/s Trident Ltd at Budhni Industrial Area, Village Budhni, Tehsil Budhni, District Sehore (Madhya Pradesh)
- b) Earlier, Ministry of Environment, Forest & Climate Change (MoEF&CC) granted Environment Clearance (EC) vide letter no. J- 13012/31/2013/IA.1 (T), dated 23<sup>rd</sup> September 2014 for the coal based Captive co-generation Plant (CPP) of 60 MW (2X30 MW). Subsequently, EC amendment was granted dated 04.07.2017 for changing capacity from 2 x 30 MW to 1 x 60 MW. Afterwards, amendment in EC was accorded dated 07.07.2017 for revising the Environmental clearance to 2 x 30 MW.
- c) It was submitted by Project Proponent (PP) that due to project feasibility issues; PP has undertaken a detailed project study to recheck the requirements in line with the future needs. Therefore, a multi fuel fired Cogeneration plant capable of generating 16.8 MW is proposed. The proposed cogeneration plant will operate with variety of fuels such as Indian Coal, and Rice Husk. However, considering the quantity of rice husk available, it was decided to fire 30% Rice husk along with 70% coal for eight months period i.e. from October to May.
- d) It was noted that the total area required for the proposed project is 43.95 acres. The existing available vacant land will be utilized for setting up the CPP. Revised cost of the project has been decreased from Rs 377.85 Crores to Rs 185.78 Crores, which includes Rs 30 Crores as an EMP budget.

**11.2.4** The EAC observed that EC granted in 2014 to project proponent has not been implemented yet. Also PP has obtained amendment in power generation capacity twice from the Ministry. Now, that PP has reduced the production capacity and also asked change in fuel mix i.e. instead of 100% coal, PP proposed to use coal and rice husk. EAC also observed that the project site is located in an ecologically sensitive region as the Narmada River is flowing very near to project site as well as the Ratapani Wildlife Sanctuary, notified under the Wild Life (Protection) Act, 1972, is within the 10 km of project radius. After detailed deliberations on presentation and information submitted by the PP, the EAC was of the view that the details submitted by PP is incomplete and require further deliberations based on further submission of following information:

- (i) One-month baseline study of environment parameters along with a comparative analysis about effects of proposed change for fuel source on environmental parameters especially on air quality and ash generation before and after change in fuel of 16.8MW capacity.
- (ii) Detailed plan of handling of raw material (Coal/Rice husk/Soyabeen husk) along with percentage carbon emission/tonne of Rice Husk or Soyabeen and comparison of calorific value in Rice husk and Soyabeen.
- (iii) Fly Ash and Bottom Ash generated from coal as well as rice husk, utilization plan, and storage management plan shall be revised and submitted for appraisal of the EAC.
- (iv) Estimated Quality and Quantity of Ash to be generated from fuels used shall be submitted with detailed utilization plan along with copy of MoU signed for utilization of Fly Ash.
- (v) Schematic flowsheet of ZLD with quantity shall be submitted.
- (vi) Details of Wild life Conservation Plan (WCMP) submitted for getting approval of State Forest and Wildlife Department be submitted.

The project was **deferred** on above points.

**Agenda Item No. 11.3: Expansion of Power Generation capacity from 600 MW to 1200 MW by installation of 1 x 600 MW in an area 385.80 acres by M/s Jhabua Power Ltd at village Barela and Gorakhpur, Tehsil Ghansore, District Seoni (Madhya Pradesh) – Amendment in Environmental Clearance (EC) - Reg.**

**[Proposal No. IA/MP/THE/106990/2019; F. No. J-13012/63/2010-IA.II (T)]**

**11.3.1** The proposal is for extension in validity of Environmental Clearance dated 21<sup>st</sup> August, 2014 granted by Ministry to Expansion of Power Generation capacity from 600 MW to 1200 MW by installation of 1 x 600 MW in an area 385.80 acres by M/s Jhabua Power Ltd at village Barela and Gorakhpur, Tehsil Ghansore, District

Seoni (Madhya Pradesh).

**11.3.2** The details of the project submitted by project proponent and ascertained from the document submitted are mentioned below:

- (i) It was noted that the proposed project site is located at village Barela and Gorakhpur, Tehsil Ghansore, Dist. Seoni, in the state of Madhya Pradesh. Its graphical coordinates are Latitude 22°43'40"N and Longitude 79°55'35"E.
- (ii) M/s Jhabua Power Ltd. is currently operating Phase - I 1 x 600 MW Power Plant at village Barela - Gorakhpur, Tehsil Ghansore, Dist.- Seoni, Madhya Pradesh. The environmental clearance for the Phase - I was accorded vide MoEF&CC letter No. J-13012/105/2008- IA. II (T) dated 17.02.2010 & amendments thereof dated 15.02.2016 & 30.08.2018. It was informed that project is fully operational since May, 2016.
- (iii) It was noted that Environment Clearance was granted for Phase II of the project for installation of an additional Phase-II consisting of 1x660 MW Super Critical Thermal Power Plant vide MoEF&CC letter no. J-13012/63/2010-IA. II (T) dated 21<sup>st</sup> August, 2014.
- (iv) Total land required for phase-II project is 385.8 acres. This includes 169.91 acres of single crop agricultural land, 119.20 acres of waste land, 87.60 acres of fallow land and 9.58 acres of forest land. 100% land have been acquired. Stage-I and Stage-II Forest Clearance for diversion of 9.85 acres of forest land have been obtained vide MoEF&CC letter dated 21.07.2011 and 07.02.2012, respectively. Updated cost of the project is Rs.3763 crores.
- (v) CEA has provided the recommendations on the FGD technology and the indicative cost based on the Feasibility Report in March 2019. FGD & other emission control measure will be installed in phase-II along with main plant execution.
- (vi) **Major Progresses in implementation of Phase – II:**
  - a) Investment of more than Rs 275 Cr has already been made.
  - b) Entire required land of 790.8 Acres have been acquired at time of phase I implementation including 385.80 acres of Phase -II.
  - c) Major common systems are complete in all respects:
    - 65 Kms. long transmission line for evacuating 1260 MW
    - Private Railway Siding
    - Intake Pump House and 10 Kms long cross-country raw water pipe line
    - Raw water Reservoir

- Major parts of CHP, AHP, CW, DM Plant, Plant Make upwater & Fire water Pump House

**(vii) Reason for delay in Project Implementation Status:**

- a) Unavailability of PPAs – only 5.45% is tied up with GoMP on Variable Charges.
- b) Poor sectoral Outlook – No rise in Electricity Demand as was envisaged.
- c) No initiative from Discoms to execute any Long Term PPAs.
- d) Extremely Low value of power transacted in the merchant space.
- e) Lack of interest by the Lenders to take additional exposure in the Coal Based Thermal Power Generation
- f) Huge time over-run in the on-going project due to delay in execution of the Common Systems.

(viii) It was noted that Project proponent's management expects that there will be an increase in electricity demand in the near future due to various policy interventions by the Government. Also, of late many DISCOMs have also come forward to tie up power through long / medium term PPAs

**11.3.3** The EAC during deliberations noted the following:

- (i) The proposal is for extension in validity of Environmental Clearance dated 21<sup>st</sup> August, 2014 granted by Ministry to Expansion of Power Generation capacity from 600 MW to 1200 MW by installation of 1 x 600 MW in an area 385.80 acres at village Barela and Gorakhpur, Tehsil Ghansore, Dist. Seoni, Madhya Pradesh by M/s Jhabua Power Ltd.
- (ii) Earlier, Ministry of Environment, Forest & Climate Change (MoEF&CC) granted Environment Clearance (EC) vide letter no J-13012/105/2008-IA.II (T) dated 17.02.2010 & amendments thereof dated 15.02.2016 & 30.08.2018 to Phase-I 1x600 MW Power Plant and it is currently operational since May, 2016.
- (iii) It was noted that Environment Clearance was granted for Phase II of the project for installation of an additional Phase – II consisting of 1x660 MW Super Critical Thermal Power Plant vide MoEF&CC letter no. J-13012/63/2010-IA.II (T) dated 21<sup>st</sup> August, 2014.
- (iv) It was submitted by project proponent that total land required for phase-II is 385.8 acres. This includes 169.91 acres of single crop agricultural land, 119.20 acres of waste land, 87.60 acres of fallow land and 9.58 acres of forest land. 100% land have been acquired. Stage-I and Stage-II Forest

Clearance for diversion of 9.85 acres of forest land have been obtained vide MoEF&CC letter dated 21.07.2011 and 07.02.2012, respectively. Updated cost of the project is Rs.3763 crores

- (v) The PP informed that the Environmental Clearance J-13012/63/2010-IA. II (T) dated 21<sup>st</sup> August, 2014 was valid up to 20<sup>th</sup> August, 2021 accordingly they submitted the online application No. IA/MP/THE/106990/2019 dated 7<sup>th</sup> May, 2021 on PARIVESH.

**11.3.4** *The EAC after detailed deliberations agreed with reasons for delay in implementation of the project and in view of Ministry notifications dated 18<sup>th</sup> January, 2021, the instant EC is extendable till 20<sup>th</sup> August, 2025 since one financial year is excluded. EAC **recommended** the proposal for grant of extension in validity of EC dated 21<sup>st</sup> August, 2014 till 20<sup>th</sup> August, 2024, under the provisions of EIA Notification, 2006 and subsequent amendments/circulars thereto subject to the 'Zero Period' notified by the Ministry from time to time due to current pandemic situation in the Country and compliance of the following additional terms & conditions / specific conditions for environmental safeguards:*

- (i) PP shall implement all the condition of EC dated 21<sup>st</sup> August, 2014 within certain timeline.*
- (ii) 100% Fly Ash and Bottom Ash utilization plan shall be prepared and to be implemented in stipulated time period. PP shall comply with Ministry's notification dated 22<sup>nd</sup> April, 2021 regarding Fly ash utilization from first year of commissioning. Bottom ash should be treated as a resource not as a waste.*
- (iii) Latest emission standards (after January, 2017 onwards) shall be complied with.*
- (iv) PP shall implement silo loading facility for flyash storage.*
- (v) PP shall submit plan for implementation of 33% peripheral green belt (only trees of local species) with fund allotted and timeline to Ministry's Regional Office within Six months.*
- (vi) PP shall submit the timeline for fulfillment of commitments during Public Hearing with allotted fund to Ministry's Regional Office.*
- (vii) PP shall increase the fund allotted for Environment Management Plan since the overall project cost has been increased.*
- (viii) PP shall submit the fund allotted for Wildlife Conservation Plan to Forest Department within six months from the issue of this letter and submit the action taken to Ministry's Regional Office.*
- (ix) PP shall develop tree plantation all along the raw material / coal storage yard with*



*in six month of issue of this letter and shall maintain survival rate over 90%. The status of compliance will be submitted to the regional Office of the Ministry along with Six monthly compliance report.*

**The meeting ended with vote of thanks to the Chair.**

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**ATTENDANCE**

<b>S. No.</b>	<b>Name</b>	<b>Role</b>	<b>Attendance</b>
1.	<b>Shri Guruj P. Kundargi</b>	<b>Chairman</b>	<b>P</b>
2.	Dr. N. P. Shukla	Member	P
3.	Shri Suramya Vora	Member	P
4.	Dr. Santosh Kumar	Member	P
5.	Dr. Umesh Jagannathrao Kahalekar	Member	P
6.	Shri K. B. Biswas	Member	P
7.	Dr. Nandini N.	Member	P
8.	Dr. Umesh Patnaik	Member	P
9.	Shri Prasant Kumar Mohapatra	Member	A
10.	Shri M. P. Singh	Member (Representative of CEA)	A
11.	Prof. S. S. Rai	Member (Representative of IIT/ISM Dhanbad)	P
12.	Prof. R. K. Giri	Member (Representative of IMD)	P
13.	Representative from CPCB	Member	A
14.	Shri Yogendra Pal Singh	Member Secretary	P

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## **APPROVAL OF THE CHAIRMAN**

Fwd: Sopa9m:Re: Draft MOM of the 11th EAC (Thermal) meeting held on 28.05.2021-reg. Inbox x



**Yogendra Pal Singh** via [nic.in](mailto:nic.in)  
to me ▾

9:44 AM (1 hour ago) ☆ ↶ ⋮

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**From:** [gpkundargi@gmail.com](mailto:gpkundargi@gmail.com)  
**To:** "Yogendra Pal Singh" <[yogendra78@nic.in](mailto:yogendra78@nic.in)>  
**Cc:** "Munna Kumar Shah" <[munna.shah@gov.in](mailto:munna.shah@gov.in)>  
**Sent:** Sunday, June 13, 2021 11:32:20 PM  
**Subject:** Sopa9m:Re: Draft MOM of the 11th EAC (Thermal) meeting held on 28.05.2021-reg.

Dear Yogendra ji

Thanks for draft minutes.I have gone through minutes They are fine with me. Hope all members have done the same, If no comments are there from other members ,Minutes are taken as approved.,However a small addition may be made in 10.2.4 point ( ix) middle line after "issue of this letter" add " shall maintain survival rate over 90%" and-submit -----  
-----complaine report.

You may take further needful action.

Thank you

G P Kundargi

On Fri, 11 Jun, 2021, 1:10 pm Yogendra Pal Singh, <[yogendra78@nic.in](mailto:yogendra78@nic.in)> wrote:

Dear Sir,

Please find attached the draft MOM of 11th EAC (Thermal) meeting held on 28.05.2021 for perusal and comments, if any.

With Regards,

**Yogendra Pal Singh**  
**Scientist 'E'**  
**M/o Environment, Forest and Climate Change**  
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