

**MINUTES OF THE 39<sup>TH</sup> MEETING OF THE RE-CONSTITUTED EXPERT APPRAISAL COMMITTEE (EAC) ON ENVIRONMENTAL IMPACT ASSESSMENT (EIA) OF THERMAL POWER PROJECTS HELD ON 31<sup>ST</sup> MARCH, 2023.**

The 39<sup>th</sup> Meeting of the re-constituted EAC (Thermal Power) organized by the Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhawan, Aliganj, Jor Bagh Road, New Delhi was held on 31<sup>st</sup> March, 2023 through video conference under the Chairmanship of Shri Gururaj P. Kundargi. The list of Members participated in the meeting is at **Annexure**.

**Agenda Item No. 39.1: Confirmation of the Minutes of the 38<sup>th</sup> EAC meeting**

The Minutes of the 38<sup>th</sup> EAC (Thermal Power) meeting held on 6.03.2023 were confirmed in the meeting.

**Agenda Item No. 39.2**

**Expansion of Bandhaura Thermal Power Plant by addition of 1600 (2x800) MW capacity to the existing 1200 (2x600) MW at Village Bandhaura, Tehsil Mada, District Singrauli (Madhya Pradesh) by M/s Mahan Energen Limited - Environmental Clearance (EC) – reg.**

**[Proposal No. IA/MP/THE/420097/2023; F. No. J-13011/56/2006-IA.II (T)]**

**39.2.1** The proposal is for grant of environmental clearance to the project for expansion of Bandhaura Thermal Power Plant by addition of 1600 (2x800) MW capacity to the existing 1200 (2x600) MW in an area of 920 Acres at Village Bandhaura, Tehsil Mada, District Singrauli (Madhya Pradesh) by M/s Mahan Energen Limited.

**39.2.2** The Project Proponent and the accredited Consultant Greencindia Consulting Pvt. Ltd., made a detailed presentation on the salient features of the project and informed that:

- i. The proposal is for grant of environmental clearance to the project for expansion of Bandhaura Thermal Power Plant by addition of 1600 (2x800) MW capacity to the existing 1200 (2x600) MW in an area of 920 Acres at Village Bandhaura, Tehsil Mada, District Singrauli (Madhya Pradesh) by M/s Mahan Energen Limited.
- ii. The project proposal was considered by the Expert Appraisal Committee (Thermal Sector) in its 19<sup>th</sup> meetings held on 11.01.2022 and recommended for grant of Terms of References (ToRs) for the Project. The ToR has been issued by Ministry vide letter No. J-13011/56/2006-IA.I (T); dated 28.02.2022 and same was transferred from M/s. Essar Power (M.P) Ltd to Mahan Energen Limited by MoEFCC, New Delhi on 04.11.2022.
- iii. All Thermal Power Plants with capacity  $\geq$  500 MW are listed at S.N. 1(d) of the Schedule to the Environment Impact Assessment (EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).

- iv. Earlier, environmental clearance was granted by MoEF&CC vide F. No. J-13011/56/2006-IA.II (T) dated 20.04.2007 to Bandhaura Super Thermal Power Project Project (4x500) MW at Singrauli District, Madhya Pradesh. Subsequently, amendments were granted on 10.02.2009, 23.08.2013 and 08.04.2016 for setting up the existing 2x600 MW units. Further, transferred EC from EPMP to MEL was granted on 15.09.2022 by MoEF&CC. MEL proposed to undertake expansion of the existing project by addition of Ultra Super-Critical Thermal Power Project with configuration of 2 units of 800 MW each translating to a capacity addition of 1600 MW within the existing plant boundary. Amendments were granted on 10.02.2009, 23.08.2013 and 08.04.2016. Also, transfer of EC from EPMP to MEL was granted on 15.09.2022 by the Ministry.
- v. The total land required for proposed expansion is 288 Acres. The land is already in possession with MEL. The total area of the project site 920 acre including the existing facility.
- vi. The recurring Environment Monitoring Cost during the construction phase is Rs. 3,24,000. During Operation Phase, the recurring Environment Monitoring Cost is Rs. 6,90,000 while the capital cost is Rs. 3,80,000.
- vii. Total water requirement for the entire project will be 4000m<sup>3</sup>/hr or 36 MCM/year will be met from Rihand (Govind Vallabh Pant Sagar) Reservoir located at a distance of 36km by existing water pipeline.
- viii. Public Hearing for the expansion project was conducted on 11.01.2023 at 01.00 noon at Raila Gram Panchayat Ground, (near Romi petrol pump), Village Raila, Tehsil Mada, District Singrauli, Madhya Pradesh under the chairmanship of Sri D. P. Barman, Additional Collector and Additional District Magistrate, Singrauli organized by Madhya Pradesh Pollution Control Board. The major issues raised during public hearing were regarding plot compensation, improvement of education facility, unemployment issues, community infrastructure development etc. The issues were addressed by the Project proponent and due budget has been allocated under CER to cater to the needs.
- ix. Monitoring report has been issued on 2.09.2022 by Regional office of the Ministry.
- x. Litigation is pending at the High court, Madhya Pradesh. Writ Petition No - 11180/2010 Forum - High Court, Jabalpur, Madhya Pradesh. Subjudice, pending for final hearing.

### **39.2.3** The EAC during deliberations noted the following:

The proposal is for grant of environmental clearance to the project for expansion of Bandhaura Thermal Power Plant by addition of 1600 (2x800) MW capacity to the existing 1200 (2x600) MW in an area of 920 Acres at Village Bandhaura, Tehsil Mada, District Singrauli (Madhya Pradesh) by M/s Mahan Energen Limited.

The ToR has been issued by Ministry vide letter No. J-13011/56/2006-IA.I (T) dated 28.02.2022 in favour of M/s. Essar Power (M.P) Ltd and the same was transferred from M/s. Essar Power (M.P) Ltd to Mahan Energen Limited vide letter dated 4.11.2022.

Public Hearing for the proposed project has been conducted by the Madhya Pradesh Pollution Control Board on 11.01.2023

All Thermal Power Plants with capacity ≥ 500 MW are listed at S.N. 1(d) of the Schedule to the Environment Impact Assessment (EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).

Earlier, environmental clearance was granted by MoEFCC vide F. No. J-13011/56/2006-IA.II (T) dated 20.04.2007 to Bandhaura Super Thermal Power Project Project (4x500) MW at Singrauli District, Madhya Pradesh. Subsequently, amendments were granted on 10.02.2009, 23.08.2013 and 08.04.2016 for setting up the existing 2x600 MW units. Further, transferred EC from EPMP to MEL was granted on 15.09.2022 by MoEFCC. MEL proposed to undertake expansion of the existing project by addition of Ultra Super-Critical Thermal Power Project with configuration of 2 units of 800 MW each translating to a capacity addition of 1600 MW within the existing plant boundary. Amendments were granted on 10.02.2009, 23.08.2013 and 08.04.2016. Also, transfer of EC from EPMP to MEL was granted on 15.09.2022 by the Ministry. The monitoring report was submitted by the Regional office of the Ministry vide letter dated 2.09.2022. The EAC observed that in the monitoring report submitted by the Ministry's Regional office at Bhopal there are many partial/ non-complied points and in response of the same the project proponent has not submitted any point wise action taken report. The EAC suggested to submit point wise action taken report on partial/ non complied points raised by Regional office of the Ministry. The EAC was of the view that PP should make action plan to use the legacy ash so as to make space for ash to be generated by expansion unit this will further reduce the land requirement for additional ash pond as proposed.

The committee also observed that the project proponent has not submitted the conservation plan for schedule-I species. Also, it has been come to knowledge of the committee that a wildlife corridor is located near the plant site and in this regard, protection measures need to be submitted.

**39.2.4** *The EAC, after deliberations and taking note on partial/ non-complied points raised in IRO monitoring report, non- submission of conservation plan for Schedule-I species and presence of wildlife corridor, desired for clarifications/ additional information in respect of the following: -*

- *Action taken report on non/partial complied points raised by Regional office of the Ministry.*
- *Submission of Wildlife conservation plan for Schedule-I species along with protection measures for wildlife corridor for approval of the State Chief Wildlife Warden.*
- *Submit plan for fly ash management along with action Plan for use of legacy ash to reduce the proposed ash pond area.*
- *Details of measures for protection of fishes from the water intake structure.*
- *Response and commitment on the issues raised during public hearing.*
- *Plan for implementation of activities under Corporate Environment Responsibility.*
- *Commitment to use 100% ash within 5 years.*

*The proposal was deferred for want of above mentioned additional information. The proposal is therefore **deferred**.*

### **Agenda Item No. 39.3**

**Setting up 2x600 MW Coal Based Thermal Power Plant at villages Singhitarai, Benipali, Odekeria & Nimohi, Tehsil Dabhara, District Sakti (erstwhile Janjgir-Champa), Chhattisgarh by M/s Athena Chhattisgarh Power Limited- Terms of Reference (TOR) – reg.**

**[Proposal No. IA/CG/THE/417474/2023; F. No. J-13012/07/2009-IA.II (T)]**

**39.3.1** The proposal is for grant of Terms of Reference to the project for setting up 2x600 MW Coal Based Thermal Power Plant in area of 400.77 ha at villages Singhitarai, Benipali, Odekera & Nimohi, Tehsil Dabhara, District Sakti (erstwhile Janjgir-Champa), Chhattisgarh by M/s Athena Chhattisgarh Power Limited.

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

- i. Setting up 2x600 MW Coal Based Thermal Power Plant in area of 400.77 ha at villages Singhitarai, Benipali, Odekera & Nimohi, Tehsil Dabhara, District Sakti (erstwhile Janjgir-Champa), Chhattisgarh by M/s Athena Chhattisgarh Power Limited.
- ii. Earlier, environment clearance (EC) was obtained by M/s. Athena Chhattisgarh Power Ltd. vide letter no. F. No. J-13011/7/2009-IA.II (T) dated 04.06.2010.
- iii. Further amendment in EC was obtained for temporary permission for road transportation of coal for a maximum period of three years and Revision of total project area from 930 acres (as per the EC) to 995.235 acres i.e. an additional project area of 65.235 acres along with extension of validity till 03.06.2017 to start production/operation vide letter no. F. No. J-13012/07/2009-IA.II (T) dated 22.03.2016.
- iv. In 2017, again extension of validity was obtained for further period of three years till 03.06.2020 vide letter no. F. No. J-13012/07/2009-IA.II (T) dated 28.11.2017 with validity up to 03.06.2020, which got extended till 03.06.2021 due to deemed extension granted via MoEF&CC Gazette Notification S.O. 221 (E) dated 18.01.2021.
- v. However, due to poor financial condition of the company, the proposal to liquidate the asset was filed by State Bank of India in 2018 & the corporate insolvency resolution process ("CIRP") was initiated against ACPL. When the Company went to liquidation proceedings ~ 60% project completed & valid EC was in place and all the powers of key managerial personnel were suspended. The project completion was hampered by poor financial condition of ACPL.
- vi. M/s Athena Chhattisgarh Power Limited (ACPL) is applying for obtaining Environmental Clearance for the same proposal, i.e., 2x600 MW Coal Based TPP at villages Singhitarai, Benipali, Odekera & Nimohi, Tehsil Dabhara, District Sakti (erstwhile Janjgir Champa), Chhattisgarh.
- vii. The land area required for the proposed project is 400.77 ha. Out of the total land required for the project, 66.81 Ha is Private land (Free Hold Land), 318.25 Ha is Government Land (Lease Hold Land) & 15.71 Ha is Forest Land. Also, out of the total plant area, 117.33 ha is already covered under greenbelt and it will be further increased to 133.11 ha (~33.21%) of greenbelt/ plantation.
- viii. As the construction work for the project as per earlier EC was completed more than

60 %. Therefore, the proposal is being submitted as per the EIA Notification dated 14th Sept., 2006, further amended on 18.03.2021 for exemption from conduction of Public Hearing.

ix. The silent features of the project are as under:

<b>Sr. No.</b>	<b>Particulars</b>	<b>Details</b>
<b>A.</b>	<b>Nature of the Project</b>	New Project
<b>B.</b>	<b>Size of the Project</b>	2x600 MW Coal Based Thermal Power Plant
<b>C.</b>	<b>Category of the Project</b>	Category "A", Project or Activity 1(d).
<b>D.</b>	<b>Location Details</b>	
1.	Villages	Singhitarai, Benipali, Orekeria & Nimohi
2.	Tehsil	Dabhara
3.	District	District Sakti (erstwhile Janjgir Champa)
4.	State	Chhattisgarh
5.	Latitude & Longitude	21°53'58.57"N to 21°55'37.31"N 83° 6'49.19"E to 83° 8'12.76"E
6.	Toposheet No.	F44L4 & F44R1
<b>E.</b>	<b>Area Details</b>	
1.	Total Plant Area	Total Plant Area: 400.77 ha.
2.	Greenbelt/ Plantation Area	Out of the total plant area ( <b>400.77</b> ha), 117.33 ha is already covered under greenbelt and it will be further increased to 133.11 ha (~33.21%) of greenbelt/ plantation area.
<b>F.</b>	<b>Environmental Setting Details (with approximate aerial distance and direction from the plant site)</b>	
1.	Nearest Town/City	• Raigarh (~25 km in East direction from plant site)
2.	Nearest Railway Station	• Kharsia RS (~7.5 km in NNW direction from plant site) • Robertson RS (~8.5 in NNE direction from plant site)
3.	National Highway	• Raigarh Road (Earlier NH-200) (~7.5 km in NNE direction from plant site)
4.	Nearest Airport	• Swami Vivekananda Airport, Raipur (~240 km in WSW direction from plant site)
5.	National Park, Wildlife Sanctuary, Biosphere Reserve, Tiger Reserve, Wildlife Corridors, Reserved / Protected Forest (PF) etc. within 10 km radius	• Basnajhar RF (~2.0 km in NE direction from plant site) • Burha Pahar RF (~5.5 km in NNE direction from plant site) • PF (~5.5 km in NE direction from plant site) • PF (~6.0 km in NE direction from plant site) • PF (~8.0 km in ENE direction from plant site)

6.	Water Body within 10 km radius	<ul style="list-style-type: none"> <li>• Seasonal Nala (passing through project site along with NW boundary of ash dyke area)</li> <li>• Mand River (~8.0 km in ENE direction from plant site)</li> <li>• Pathari Nala (~0.13 km in NE direction from plant site)</li> <li>• Dantar Nala (~7.0 km in ENE direction from plant site)</li> <li>• Lami Nala (~7.5 km in SW direction from plant site)</li> <li>• Sukhda Pond (~4.5 km in SW direction from plant site)</li> <li>• Kamrel Nala (~5.0 km in SE direction from plant site)</li> <li>• Ghatai Bandh (Kansa) (~5.5 km in SSE direction from plant site)</li> <li>• Water Reservoir Near Saraipali (~5.5 km in NE direction from plant site)</li> <li>• Bangan Nala (~8.5 km in WSW direction from plant site)</li> <li>• Canal (~0.15 km in West direction from plant site)</li> </ul>												
7.	Seismic Zone	The project falls in Seismic Zone - II as per IS: 1893 (Part-I): 2002, which is very low risk zone												
<b>G.</b>	<b>Basic Requirements of the Project</b>													
	Raw Material Requirement	<table border="1"> <thead> <tr> <th>S. No.</th> <th>Particular</th> <th>UNIT</th> <th>Quantity</th> <th>Probable transportation</th> <th>Distance from source in Km</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Coal</td> <td>MTPA</td> <td>5.737</td> <td>Road/ Rail/ Port</td> <td>Within 100 km</td> </tr> </tbody> </table> <p><i>Note: HSD / LSHS will be used for startup of the plant.</i></p>	S. No.	Particular	UNIT	Quantity	Probable transportation	Distance from source in Km	1.	Coal	MTPA	5.737	Road/ Rail/ Port	Within 100 km
S. No.	Particular	UNIT	Quantity	Probable transportation	Distance from source in Km									
1.	Coal	MTPA	5.737	Road/ Rail/ Port	Within 100 km									
	Water Requirement (KLD)	<ul style="list-style-type: none"> <li>• Water requirement for the project will be 81256 KLD.</li> <li>• Source: Mahanadi River.</li> <li>• Permission: Allocation permission for 35 MCM from Mahanadi River has been obtained vide letter no. /F 4-57/S-2/31/oJP/07 dated 28.06.2008.</li> </ul>												
	Power Requirement (MW)	<ul style="list-style-type: none"> <li>• Total Power requirement: 2 MVA (During construction)</li> <li>• Source: Chhattisgarh State Power Distribution Company Limited</li> <li>• Three DG sets (2 x 325 KVA + 62.5 KVA) installed for emergency power backup.</li> </ul>												
	Manpower Requirement	<ul style="list-style-type: none"> <li>• Employment likely to be generated during construction phase: 200 (Permanent) &amp; 2100 (Contractual) for a period of 2 years.</li> <li>• Employment likely to generated during operational phase: 100 (Permanent) &amp; 900 (Contractual)</li> </ul> <p>Preference will be given to local people as per their eligibility criteria.</p>												
<b>H.</b>	<b>Cost Details</b>													

Total Cost for the Project	Rs. 8500 Crores/- (Expenditure incurred so far is Rs. 6493 Crores and Rs. 1500 crores is the budget for further implementation and completion of the project.)
Cost for Environmental Protection Measures	Capital Cost: Rs. 490 Crores/- Recurring Cost: Rs. 50 Crore /annum

### 39.3.3 The EAC during deliberations noted the following:

The proposal is for grant of Terms of Reference to the project for setting up 2x600 MW Coal Based Thermal Power Plant in area of 400.77 ha at villages Singhitarai, Benipali, Odekera & Nimohi, Tehsil Dabhara, District Sakti (erstwhile Janjgir-Champa), Chhattisgarh by M/s Athena Chhattisgarh Power Limited.

The project/activity is covered under category A of item 1(d) 'Thermal Power Plants' of the Schedule to the Environmental Impact Assessment Notification, 2006 and requires appraisal at Central level by the sectoral EAC in the Ministry.

The project proponent has informed that construction work for the project as per earlier EC was completed more than 60 %. The committee suggested the project proponent to submit affidavit confirming that 60% project work has been completed. Accordingly, the PP has submitted the undertaking affidavit vide email dated 3.04.2023 stating that the construction activity at the project site has already been completed more than 60% by the erstwhile management of the Company.

**39.3.4** The EAC after detailed deliberation on the information submitted **recommended** the proposal for grant of Standard ToR with exemption from public hearing for conducting EIA study to the project for setting up 2x600 MW Coal Based Thermal Power Plant in area of 400.77 ha at villages Singhitarai, Benipali, Odekera & Nimohi, Tehsil Dabhara, District Sakti (erstwhile Janjgir-Champa), Chhattisgarh by M/s Athena Chhattisgarh Power Limited, under the provisions of EIA Notification, 2006 and as amended along with the following additional/specific ToR:

#### **[A] Environmental Management and Biodiversity Conservation**

- i. Public Hearing is exempted in view of overall progress of the of power plant more than 50% as per Ministry's Notification, however public notice shall be issued through State Pollution Control Board and issues raised shall be addressed with allocation of fund and within certain timeline and shall be submitted during EIA/EMP submissions and appraisal.
- ii. No construction shall be done on the waterbodies located around the project area. Submit an ACTION PLAN for conservation of waterbodies located around the plant.
- iii. Details of Ash management of existing and proposed project shall be submitted keeping in view that the fly ash disposal area for existing plant shall not be used for proposed expansion.
- iv. Details of Dry Ash handling system along with supplementary coal handling system shall be submitted.
- v. Proper protection measures like HDPE lining, appropriate height of bund and adequate distance between proposed Ash pond and water body (minimum 60 meter) etc. shall be planned so as to reduce the possibility of mixing of leachate with any

- fresh water body. High Density Slurry disposal plan shall be prepared.
- vi. Pond and ground water quality (10 locations within 2 km radius of the plant boundary) shall be studied and report be submitted along with EIA/EMP. Action plan for Ground water monitoring stations on all hotspots like schools/hospitals within 2 km radius of the plant boundary be submitted.
  - vii. Baseline Study for Heavy metals in Ground water, Surface water and soil to be carried out and incorporated in EIA/EMP report.
  - viii. Details pertaining to water source, treatment and discharge should be provided.
  - ix. Revise water balance shall be submitted with Zero Liquid Discharge plan.
  - x. Action plan for development of green belt (33% of total project cover area) across the periphery of the project boundary shall be provided with a video clip of existing green belt.
  - xi. PP shall submit action plan for using treated Sewage/Domestic wastewater for its operations.
  - xii. Project proponent to prepare Environmental Cost Benefit Analysis for the project in EIA/EMP Report.
  - xiii. An action plan shall be prepared for Water shed development within 10 km radius of the plant boundary in consultation with reputed government institution.
  - xiv. Provision to left the space for installing SCR.
  - xv. Site specific wildlife conservation plan duly approved by DFO shall be submitted and no vehicle purchase to be done/ proposed in the said plan.
  - xvi. Details of nos. of tree along with their density and nomenclature of the tree species required to be felled for project components and ash pond area and afforestation plan inside or outside the plant boundary shall be studied.
  - xvii. Plan for transportation of coal through closed conveyor belt shall be prepared and be submitted.
  - xviii. Site location map duly authenticated by the PCCF (wildlife) indicating distance of ESZ/boundary of protected area located in the vicinity.
  - xix. Permission from concerned regulatory authority for withdrawal of water.

**[B] Disaster Management**

- xx. Disaster Management Plan shall be prepared and incorporated in EIA/EMP report.

**[C] Miscellaneous**

- xxi. PP shall submit details of court cases and its status for the project (if any).
- xxii. The PP should submit the photograph of monitoring stations & sampling locations. The photograph should bear the date, time, latitude & longitude of the monitoring station/sampling location. In addition to this PP should submit the original test reports and certificates of the labs which will analyze the samples.
- xxiii. Arial view video of project site shall be recorded and to be submit.

**Agenda Item No. 39.4**

**Expansion of Raghunathpur Thermal Power Station by installing capacity 1320 (2x660) MW (Phase-II at village Raghunathpur, District Purulia (West Bengal) by M/s Damodar Valley Corporation - Terms of Reference (TOR) - reg.**

**[Proposal No. IA/WB/THE/420393/2023; F. No. J-13011/22/2007-IA.II (T)]**



**39.4.1** The proposal is for grant of Terms of Reference to the project for Expansion of Raghunathpur Thermal Power Station by installing capacity 1320 (2x660) MW (Phase-II) in an area of 341.81 ha at village Raghunathpur, District Purulia (West Bengal) by M/s Damodar Valley Corporation.

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

- i. The proposal is for grant of Terms of Reference to the project for Expansion of Raghunathpur Thermal Power Station by installing capacity 1320 (2x660) MW (Phase-II) in an area of 341.81 ha at village Raghunathpur, District Purulia (West Bengal) by M/s Damodar Valley Corporation.
- ii. At present, Raghunathpur TPS (RTPS) of DVC has total installed capacity of 1200 MW (2x600 MW) under Ph-I and both units are under commercial operation since March 2016, based on Environmental Clearance, accorded by MoEF&CC on 18th October 2007.
- iii. Earlier RTPS was accorded Environment Clearance on 23.05.2012 by MOEF&CC for 2x660 MW under Phase II. Public Hearing for this project was successfully conducted. However, due to one or more reasons, activities of Ph-II could not be taken up further and the project was dropped by DVC in 2014-15 and contracts for different packages were terminated. However, considering the demand-supply position and projected growth of load demand in the valley area arising out mainly due to decommissioning of various units of DVC viz... Durgapur TPS, Bokaro TPS-B and Chandrapura TPS, the Board of DVC accorded approval for the revival of erstwhile Raghunathpur TPS Ph-II (2x660 MW) and in principle approval was accorded by Ministry of Power on 25.02.2022.
- iv. The silent features of the project is as under:

<b>PROPOSED PROJECT HIGHLIGHTS</b>	
<b>Location</b>	Vill: Raghunathpur, Dist: Purulia, in West Bengal
<b>Land requirement</b>	The main plant will be installed on total 341.81 hectares (844.63 acres) of land, which is available within the existing plant premises of total 840.53 Hectares (2077 acres), which has been acquired.
<b>Raw water requirement &amp; source</b>	Water to the tune of 207591 KLD will be needed for the overall project. (Existing: 112542 KLD + Proposed: 95049 KLD)  Source: Panchet Dam
<b>Power requirement &amp; Source</b>	82.5 MW (for Phase -II)  Source : DVC, Phase I
<b>Effluent generation &amp; disposal</b>	The plant will be designed as a zero liquid discharge plant. The water will be recirculated through cooling and treatment. The entire wastewater will be recycled for various purposes inside the plant.

	Domestic wastewater will be treated in Sewage Treatment Plant (STP). Treated wastewater will be used for greenbelt purpose inside the plant premises.
<b>Air pollution control</b>	Dust Suppression and Extraction Systems, FGD, Electrostatic Precipitators, Flue Gas Desulphurisation System and NOx Control System at relevant points will be installed.
<b>Fuel requirement (Coal)</b>	6.60 MTPA Coal, sourced from Central Coalfield Limited (CCL), coal linkage with CCL is available.
<b>Ash generation</b>	29,70,000 TPA ash will be generated from Boiler.
<b>Ash Management</b>	<ul style="list-style-type: none"> <li>● DVC shall make efforts with authorities of coal mines and other minerals mines for use of ash in filling of abandoned mines/stone query areas and also used in construction of National/State Highway located within 300 km of proposed power station.</li> <li>● Construction of Varanasi Expressway: around 200 kms. stretch falls under Purulia district where significant quantum of ash shall be utilized.</li> <li>● Fly ash will also be utilized as a raw material for the cement grinding unit / brick manufacturing</li> <li>● Shree cement &amp; ACC Cement plants are located in nearby areas where considerable quantity of fly ash shall be utilized.</li> </ul>
<b>Domestic Solid waste Management</b>	Domestic solid waste from the plant and staff quarters will be disposed of suitably in consultation with the concerned Authority.
<b>Manpower</b>	350 persons (both regular and contractual)
<b>Project cost</b>	Rs. 11554.29 Crores

### 39.4.3 The EAC during deliberations noted the following:

The proposal is for grant of Terms of Reference to the project for Expansion of Raghunathpur Thermal Power Station by installing capacity 1320 (2x660) MW (Phase-II) in an area of 341.81 ha at village Raghunathpur, District Purulia (West Bengal) by M/s Damodar Valley Corporation.

The project/activity is covered under category A of item 1(d) 'Thermal Power Plants' of the Schedule to the Environmental Impact Assessment Notification, 2006 and requires appraisal at Central level by the sectoral EAC in the Ministry.

The project proponent has informed earlier environment Clearance was granted by the Ministry on 23.05.2012 to phase-II project (2x660 MW) and Public Hearing for this project was successfully conducted. However, due to certain reason the Phase-II project could not be taken up and the validity of said EC has been expired and the project proponent has submitted afresh proposal for ToR.

**39.4.4** The EAC after detailed deliberation on the information submitted **recommended** the proposal for grant of Standard ToR with public hearing for conducting EIA study to the project for Expansion of Raghunathpur Thermal Power Station by installing capacity 1320 (2x660) MW (Phase-II) in an area of 341.81 ha at village Raghunathpur, District Purulia (West Bengal) by M/s Damodar Valley Corporation, under the provisions of EIA Notification, 2006 and as amended along with the following additional/specific ToR:

**[A] Environmental Management and Biodiversity Conservation**

- i. Public Hearing shall be conducted as per the provisions contained in EIA Notification, 2006 as amended.
- ii. No construction shall be done on the waterbodies located around the project area. Submit an proposal for conservation of waterbodies located around the plant.
- iii. Details of Ash management of existing and proposed project shall be submitted keeping in view that the fly ash disposal area for existing plant shall not be used for proposed expansion.
- iv. Details of Dry Ash handling system along with supplementary coal handling system shall be submitted.
- v. Proper protection measures like HDPE lining, appropriate height of bund and adequate distance between proposed Ash pond and water body (minimum 60 meter) etc. shall be planned so as to reduce the possibility of mixing of leachate with any fresh water body. High Density Slurry disposal plan shall be prepared.
- vi. Pond and ground water quality (10 locations within 2 km radius of the plant boundary) shall be studied and report be submitted along with EIA/EMP. Action plan for Ground water monitoring stations on all hotspots like schools/hospitals within 2 km radius of the plant boundary be submitted.
- vii. Baseline Study for Heavy metals in Ground water, Surface water and soil to be carried out and incorporated in EIA/EMP report.
- viii. Details pertaining to water source, treatment and discharge should be provided.
- ix. Revise water balance shall be submitted with Zero Liquid Discharge plan.
- x. Action plan for development of green belt (33% of total project cover area) across the periphery of the project boundary shall be provided with a video clip of existing green belt.
- xi. PP shall submit action plan for using treated Sewage/Domestic wastewater for its operations.
- xii. Project proponent to prepare Environmental Cost Benefit Analysis for the project in EIA/EMP Report.
- xiii. An action plan shall be prepared for Water shed development within 10 km radius of the plant boundary in consultation with reputed government institution.
- xiv. Provision to left the space for installing SCR.
- xv. Site specific wildlife conservation plan duly approved by DFO shall be submitted and no vehicle purchase to be done/ proposed in the said plan.
- xvi. Details of nos. of tree along with their density and nomenclature of the tree species required to be felled for project components and ash pond area and afforestation

- plan inside or outside the plant boundary shall be studied.
- xvii. Plan for transportation of coal through closed conveyor belt shall be prepared and be submitted.
  - xviii. Site location map duly authenticated by the PCCF (wildlife) indicating distance of ESZ/boundary of protected area located in the vicinity.
  - xix. Permission from concerned regulatory authority for withdrawal of water.

**[B] Disaster Management**

- xx. Disaster Management Plan shall be prepared and incorporated in EIA/EMP report.

**[C] Miscellaneous**

- xxi. PP shall submit details of court cases and its status for the project (if any).
- xxii. The PP should submit the photograph of monitoring stations & sampling locations. The photograph should bear the date, time, latitude & longitude of the monitoring station/sampling location. In addition to this PP should submit the original test reports and certificates of the labs which will analyze the samples.
- xxiii. Aerial view video of project site shall be recorded and to be submit.
- xxiv. Certified compliance report of existing project shall be submitted.

**Agenda Item No. 39.5**

**2X660 MW Coal based Supercritical Thermal Power Plant (STPP) at Villages Tentulei, Ghantapada, Jagannathpur, SanaScatland, Bada Scatland, Talcher CD Block, in District Angul, Odisha by M/s NSL Nagapatnam Power and Infratech Limited-Extension of Validity of Environmental Clearance – reg.**

**[Proposal No. IA/OR/THE/298432/2023; F. No. J-13012/25/2007-IA.II (T)]**

**39.5.1:** The proposal is for extension validity of Environmental Clearance of 2X660 MW Coal based Supercritical Thermal Power Plant (STPP) at Villages Tentulei, Ghantapada, Jagannathpur, SanaScatland, Bada Scatland, Talcher CD Block, in District Angul, Odisha by M/s NSL Nagapatnam Power and Infratech Limited.

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

- i. M/s NSL Nagapatnam Power and Infratech Limited (NNPIL) is implementing 2x660 MW Coal based Supercritical Thermal Power Plant (STPP) at Villages Tentulei, Ghantapada, Jagannathpur, Sana Scatland, Bada Scatland, Talcher CD Block, in District Angul, Odisha.
- ii. Environmental Clearance was accorded by MoEF&CC on 25.03.2013. Extension of EC validity has been obtained till 24.03.2023 vide its letter no. J-13012/25/2007-IA. II(T) dt. 22.04.2020.
- iii. Project works started in all respects and site was made ready for starting the construction works. NNPIL project achieved financial closure and signed common loan agreement with Rural Electrification Corporation Ltd. (REC) led consortium of lenders comprising of Power Finance Corporation (PFC) and Axis bank in Sep 2012. However, the project did not receive disbursement due to non-signing of Fuel Supply Agreement (FSA) and Power Purchase Agreement (PPA) which are the pre-

disbursement conditions. It may be kindly noted that, signing of FSA and PPA are government policy related matters and are beyond the control of NNPIIL. Due to non-disbursement of debt funds, project suffered financial constraints leading to slowing down of project implementation activities for reasons beyond the control of NNPIIL. Further COVID-19 has affected the progress.

**Request:**

- iv. The proposal has been submitted for seeking the extension of 1 more year i.e. till 24.03.2025 so as to continue on the project activities for the implementation.

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

The proposal is for validity extension of Environmental Clearance of 2X660 MW Coal based Supercritical Thermal Power Plant (STPP) at Villages Tentulei, Ghantapada, Jagannathpur, SanaScatland, Bada Scatland, Talcher CD Block, in District Angul, Odisha by M/s NSL Nagapatnam Power and Infratech Limited.

The Environmental Clearance was granted by the Ministry vide letter dated 25.03.2013 followed by extension of EC validity vide letter dated 22.04.2020.

As per the Ministry's Notification S.O. 1807(E) dated 12.04.2022, the environmental clearance granted to Thermal power projects shall be valid for a period of ten years and may be extended in respect of valid Environmental Clearance, by the regulatory authority concerned by a maximum period of one year.

However, as per MoEF&CC notification S.O. 221(E) dated 18.01.2021 the period from the 1<sup>st</sup> April, 2020 to the 31<sup>st</sup> March, 2021 shall not be considered for the purpose of calculation of the period of validity of Prior Environmental Clearances granted under the provisions of this notification in view of outbreak of Corona Virus (COVID-19). Accordingly, the EC dated 25.03.2013 shall be considered as valid till 24.03.2024 and as per the Ministry's Notification S.O. 1807(E) dated 12.04.2022 the validity of EC may be extended for one more year till 24.03.2025.

**39.5.4:** The EAC after detailed deliberations, **recommended** for validity extension of environmental clearance dated 25.03.2013 of M/s NSL Nagapatnam Power and Infratech Limited for one more year till 24.03.2025, subject to compliance of condition as under: -

- (i) The conditioned stipulated in environmental clearance dated 25.03.2013 and 22.04.2020 shall remain unchanged.

**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.	Shri Gururaj P. Kundargi	Chairman	P
2.	Shri K. B. Biswas	Member	P
3.	Shri Suramya Dolarray Vora	Member	P
4.	Professor S S Rai	Member	P
5.	Dr. Narmada Prasad Shukla	Member	P
6.	Dr. Santosh Kumar Hampannavar	Member	P
7.	Dr. Umesh Kahalekar	Member	P
8.	Shri M. P. Singh	Member	P
9.	Prof (Dr.) Nandini N	Member	P
10.	Dr. Nazimuddin	Member (Representative of Central Pollution Control Board)	P
11.	Shri Yogendra Pal Singh	Member Secretary	P

## **APPROVAL OF THE CHAIRMAN**

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**From:** [gpkundargi@gmail.com](mailto:gpkundargi@gmail.com)

**To:** "Yogendra Pal Singh" <[yogendra78@nic.in](mailto:yogendra78@nic.in)>

**Sent:** Thursday, April 20, 2023 3:14:55 PM

**Subject:** Re: draft MoM of 39th EAC meeting held on 31.04.2023-reg.

Dear Dr Yogendra ji

Draft minutes of 39th EAC meeting are fin with me & approved for further needful action.

Thank you

G P Kundargi