

## **MINUTES OF THE 12<sup>th</sup> MEETING OF THE RE-CONSTITUTED EXPERT APPRAISAL COMMITTEE (EAC) ON ENVIRONMENTAL IMPACT ASSESSMENT (EIA) OF THERMAL POWER PROJECTS HELD ON 14<sup>th</sup> JUNE, 2021**

The 12<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 14<sup>th</sup> June, 2021 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.12.1: Confirmation of the Minutes of the 10<sup>th</sup> EAC meeting**

The Minutes of the 11<sup>th</sup> EAC (Thermal Power) meeting held on 28<sup>th</sup> May, 2021 were confirmed in the meeting.

### **Agenda No. 12.2**

**3x600 MW Coal Based Thermal Power Plant (Phase-II-Unit 5,6 and 1) in an area of 828.46 ha by M/s KSK Mahanadi Power Company Limited located in village Nariyara, Tehsil Akaltara, District Janjgir Champa (Chhattisgarh) – Terms of Reference – Reg.**

**[Proposal No. IA/CG/THE/209699/2021; F. No. J-13012/44/2008-IA.I (T)]**

**12.2.1** The proposal is for Terms of Reference to 3x600 MW Coal Based Thermal Power Plant (Phase-II-Unit 5,6 and 1) in an area of 828.46 ha by M/s KSK Mahanadi Power Company Limited located in village Nariyara, Tehsil Akaltara, District JanjgirChampa (Chhattisgarh).

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

- (i) Environmental Clearance was accorded by Ministry of Environment, Forest and Climate Change vide its letter no. J-13012/44/2008-IA.II(T) dated 19<sup>th</sup> Oct, 2009 to 6X600 MW Coal based Thermal Power Plant at Nariyara District Janjgir-Champa (Chhattisgarh) by M/s Wardha Power Company Ltd, Corrigendum has been issued vide Ministry's letter dated 19<sup>th</sup> November, 2009, EC was transferred to M/s KSK Mahanadi Power Company Ltd dated 27<sup>th</sup> December, 2010. Amendment in EC for tapering of coal linkage was granted on 24<sup>th</sup> January, 2012. Further amendment and extension in validity of EC was granted by Ministry vide its letter dated 23<sup>rd</sup> September, 2015. Also, amendment in EC was granted on 26<sup>th</sup> May, 2016 regarding change in coal sources for using blended coal. Again amendment in EC was granted on 19<sup>th</sup> April, 2018 in compliance of direction of Hon'ble NGT and validity in extension in EC.
- (ii) It was informed that Unit 2, 3 & 4 (1800 MW) of 6x600 MW are commissioned & operating. However, the balance 3 units (Unit-1,5 and 6) are under advanced stages of construction and could not get commissioned in 10 years period due to local and financial issues therefore, M/s KSK Mahanadi Power Company Limited (KMPCL) applied Environmental Clearance (EC) for construction and implementation of 3x600 MW (1800 MW - Units-5,6 and1) coal based power plant which is part of 6x600 MW (3600 MW) power plant.

- (iii) The site is well connected to NH#200. Nearest railway station is Akaltara which is at 5.5-km in N. Raipur airport 120-km in SW. Paradeep port is at 450-km from the plant site.
- (iv) The project is aimed at supplying power to Telangana, Andhra Pradesh, Tamil Nadu, Uttar Pradesh and Chhattisgarh States through Long Term Power Purchase Agreements.
- (v) **Land details:** The power plant has already acquired 828.46 ha of land. Entire land required for 6x600 MW is under the possession of KMPCL. The power plant consists of coal storage yard of 15 days capacity. Water reservoir of 15 days capacity. There is no forest blocks exist within 10-km radius.
- (vi) There is no ecologically sensitive area such as Biosphere Reserve, Reserve Forest, Wildlife Sanctuary, National Parks, Monuments of Archaeological and Historical Importance within 10 km from the Project site.
- (vii) **Water requirement:** The fresh water requirement is mainly to prepare Limestone slurry preparation and make up water recirculation is 441 m<sup>3</sup>/hr or 10584 m<sup>3</sup>/day which will be sourced from existing power plant water supply system and no additional facilities or allocation is envisaged.
- (viii) **Water bodies:** River Lilagar is situated 7.7-km, to the west of projects site and Arasmeta Lake is situated 6.5-km, to the west of projects site.
- (ix) **Fuel Requirement:** Coal consumption of power plant will be about 23040 tpd on design coal quality with GCV of 4200 kcal/kg. Coal handling system established to handle the coal requirement. The total coal requirement shall be 7.07Million tpa.
- (x) Gypsum will be either supplied to Cement Plants located at Bhatapara at a distance of 80 km or supplied to manufacturers of Gypsum boards or disposed into the query mines available around the KMPCL plant site.
- (xi) Balance unused Gypsum will be sent to Gypsum storage area of 49 ha of land adjacent to existing Fly ash dyke area.
- (xii) **Employment Generation (Direct and Indirect):** The manpower requirement of power plant during construction phase and operation period is estimated to be 5000 persons and 1500 persons respectively. In addition, contractual employees will be employed though local contractors during operational phase.
- (xiv) **Project Highlights:** The principal features or highlights of the proposed plant of are as follows:

Sr. No.	Features	Particulars
1.	Capacity	1800 MW
2.	Configuration	3x600 MW (3x600 MW under construction)
3.	Type of boilers	Sub critical with pulverized Coal
4.	Power evacuation	Power generated at KMPCL is evacuated at both 400 KV level

5.	Fuel	Coal
6.	Source of Coal	Coal will be sourced from SECL, MCL under Shakti scheme and e-auction coal from CIL and imported coal
7.	Coal Requirement	7.07 Million tpy
8.	Sulphur content	0.3-0.6% (Max) and design (0.4%)
9.	Ash Content in Coal	21-40% (Max) and Design (36%)
10.	Ash generation	2.5452 Million tpy
11.	Fly ash	2.036 Million tpy
12.	Bottom Ash	0.5090 Million tpy
13.	ESP efficiency	99.99%
14.	Stack	2 stacks (3 flues each of 275m height) have been already constructed
	Stack for FGD system	3 stacks – (each of 110m of height)
15.	Fresh water requirement for makeup	4778 m <sup>3</sup> /hr will be sourced from River Mahanadi
16.	Limestone requirement	0.25 Million tp
17.	Gypsum generation	0.601 Million tpy
18.	Anhydrous ammonia	0.0149 Million tpy

(xv). KMPCL is seeking exemption of Public Hearing since there is no additional land acquisition, additional water requirement and no additional pollution loads when compare to earlier Environmental clearance. The EC is being sought for the Unit -5, 6 and 1 which are part & parcel of 6x600 MW coal based thermal power plant for which EC was granted by MoEF&CC in 2009. The three units implementation has been completed more than 50% of construction. As per the notification no. S.O. 1247(E) dated 18<sup>th</sup> March, 2021, which states that “may exempt the requirement of public hearing subject to the condition that the project has been implemented not less than fifty percentage in its physical form or construction.”

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

- i. The proposal is for Terms of Reference to 3x600 MW Coal Based Thermal Power Plant (Phase-II-Unit 5, 6 and 1) in an area of 828.46 ha by M/s KSK Mahanadi Power Company Limited located in village Nariyara, Tehsil Akaltara, District Janjgir Champa (Chhattisgarh).
- ii. Environmental Clearance was accorded by Ministry of Environment, Forest and Climate Change vide its letter no. J-13012/44/2008-IA.II(T) dated 19<sup>th</sup> Oct, 2009 to 6X600 MW Coal based Thermal Power Plant at Nariyara District Janjgir-Champa (Chhattisgarh) by M/s Wardha Power Company Ltd, Corrigendum has been issued vide Ministry's letter dated 19<sup>th</sup> November, 2009, EC was transferred to M/s KSK Mahanadi Power Company Ltd dated 27<sup>th</sup> December, 2010. Amendment in EC for tapering of coal linkage was granted on 24<sup>th</sup> January, 2012. Further amendment and extension in validity of EC was granted by Ministry vide its letter dated 23<sup>rd</sup> September, 2015. Also, amendment in EC was granted on 26<sup>th</sup> May, 2016 regarding change in coal sources for using blended coal. Again amendment in EC was granted on 19<sup>th</sup> April, 2018 in compliance of direction of Hon'ble NGT and validity in extension in EC.

- iii. Project Unit 2, 3 & 4 (1800 MW) of 6x600 MW are commissioned & operating. The proposed TPP 3 units (Unit-1,5 and 6) are under advanced stages of construction as PP has completed more than 65% of construction work and could not commissioned in 10 years period due to local and financial issues. The power plant has already acquired 828.46 ha of land and no further land is required for installation of the project.
- iv. Cost of the Phase-II of project: Rs 9,000 Cr (Includes balance works of project and pollution control facilities such as Flue Gas Desulphurization (FGD) systems and Selective Catalytic Reduction (SCR) systems to meet the revised emission norms vide S.O. 3305(E), dated 7<sup>th</sup> Dec, 2015 and GSR 243(E), dated 31<sup>st</sup> Mar, 2021.
- v. Recommendation of ‘Central Electricity Authority’ (CEA) for ‘Wet Limestone based Flue Gas Desulphurization’ (Wet FGD) system was obtained on 17.5.2019.
- vi. Currently, plant is under ‘National Company Law Tribunal’ (NCLT) and identification of successful Resolution Applicant is in progress.

*12.2.4 The EAC after detailed deliberation was of the view that since Environmental Clearance (EC) granted by the Ministry on 19.10.2009 was for 6X600 MW power generation capacity; however, PP could commission only 3X600 MW power generation capacity within the validity period as prescribed under EIA Notification, 2006 as amended. Now the PP wants fresh TOR for the capacity of 3X600 MW which could not be commissioned as part of EC dated 19.10.2009 with exemption from Public hearing in terms of provisions of the MoEF&CC Notification S. O. 1247(E) dated 18<sup>th</sup> March, 2021. The EAC desired to have factual status of the progress made on site through site visit by RO, MoEF&CC for further consideration of the proposal. Accordingly, decided to defer the proposal.*

### **Agenda No. 12.3**

**Amendment in Environment Clearance for Retrofit of pollution control facilities as per S.O. 3305 (E) dated 7<sup>th</sup> December, 2015 in 3x600 MW units of 6x600 MW Coal Based Thermal Power Plant by M/s KSK Mahanadi Power Company Limited, located in village Nariyara, Tehsil Akaltara, District Janjgir Champa (Chhattisgarh) – Amendment in Environmental Clearance – reg.**

**[Proposal No. IA/CG/THE/208689/2021; F. No. J-13012/44/2008-IA.I (T)]**

**12.3.1** The proposal is for amendment in Environment Clearance for Retrofitting of pollution control facilities in 3x600 MW units of 6x600 MW Coal Based Thermal Power Plant by M/s KSK Mahanadi Power Company Limited, located in village Nariyara, Tehsil Akaltara, District Janjgir Champa (Chhattisgarh).

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

- (i) Environmental Clearance was accorded by Ministry of Environment, Forest and Climate Change vide its letter no. J-13012/44/2008-IA.II(T) dated 19<sup>th</sup> Oct, 2009 to 6X600 MW Coal based Thermal Power Plant at Nariyara District Janjgir-Champa (Chhattisgarh) by M/s Wardha

Power Company Ltd, Corrigendum has been issued vide Ministry's letter dated 19<sup>th</sup> November, 2009, EC was transferred to M/s KSK Mahanadi Power Company Ltd. dated 27<sup>th</sup> December, 2010. Amendment in EC for tapering of coal linkage was granted on 24<sup>th</sup> January, 2012. Further amendment and extension in validity of EC was granted by Ministry vide its letter dated 23<sup>rd</sup> September, 2015. Also, amendment in EC was granted on 26<sup>th</sup> May, 2016 regarding change in coal sources for using blended coal. Again amendment in EC was granted on 19<sup>th</sup> April, 2018 in compliance of direction of Hon'ble NGT and validity in extension in EC.

- (ii) It was informed that Unit 2, 3 & 4 (1800 MW) of 6x600 MW are commissioned & operating. However, the balance 3 units (Unit-1, 5 and 6) are under advanced stages of construction. Current Consent to Operate (CTO) issued from Chhattisgarh Environment Conservation Board, Raipur is valid upto 17.5.2022.
- (iii) The environmental setting of the plant site is given in below Table:

Sl. No.	Particulars	Details
1	Project site	Nariyara village, Akaltara Tehsil, Janjgir-Champa District, Chhattisgarh
2	Plant Site Co-ordinates	A:21 <sup>0</sup> 58' 46"N 82 <sup>0</sup> 24' 53"E
		B: 21 <sup>0</sup> 58'29"N82 <sup>0</sup> 25'38"E
		C:21 <sup>0</sup> 57'09"N82 <sup>0</sup> 25' 06"E
		D:21 <sup>0</sup> 58'26" N82 <sup>0</sup> 24' 53"E
		E:21 <sup>0</sup> 57'16"N82 <sup>0</sup> 24'47"E
		F: 21 <sup>0</sup> 57' 13"N82 <sup>0</sup> 24'11"E
		G:21 <sup>0</sup> 57' 30"N82 <sup>0</sup> 23'05"E
		H:21 <sup>0</sup> 58'13" N 82 <sup>0</sup> 23'05"E
		I:21 <sup>0</sup> 58' 31"N82 <sup>0</sup> 23'06"E
		J:21 <sup>0</sup> 58'38"N 82 <sup>0</sup> 24'03"E
		K:21 <sup>0</sup> 58' 12"N 82 <sup>0</sup> 24' 40"E
		L:21 <sup>0</sup> 57'53"N82 <sup>0</sup> 24'03" E
		M:21 <sup>0</sup> 57' 52"N 82 <sup>0</sup> 24'14"E
N:21 <sup>0</sup> 58'05" N82 <sup>0</sup> 24'01" E		
4	Plant site Elevation	275m above MSL
5	Nearest highway	NH-200 (0.5km,E)
6	Nearest railway station	Akaltara (5.5km,N)
7	Nearest airport	Raipur (120km,SW)
8	Nearest town/city	Akaltara (5.5kmN), Bilaspur (30.0km,NW)
9	Topography	Plain
10	Archaeologically important places	Nil within 15km radius
	Protected areas as per Wildlife protection Act, 1972 (Biospheres,	

11	Elephant Reserves, Tiger Reserves, National Parks, Wildlife Sanctuaries, Conservation Reserves and Community Reserves)	Nil within 15km radius
12	Reserved/Protected Forest	Dalha Protected Forest (12.5km,N)
13	Nearest water bodies	River Lilagar (7.7km,W), Arasmeta Lake 6.5km,W)
14	Water source	River Mahanadi (65 km, E). fresh Water is being supplied through dedicated underground pipelines from river to project site
15	Nearest village	Rogda (0.5km,NW)
16	Seismicity	Zone-III as per IS:1893 (Part-I):2002- Seismically stable zone. The plant area is not affected by flood, subsidence, landslides, erosion and other natural calamities.

- (iv) M/s KSK Mahanadi Power Company Limited (KMPCL) (earlier known as Wardha Power Company Limited) is proposing to install the pollution control equipment to meet the revised emissions norms for thermal power plants vide S. O. 3305(E) dated 7<sup>th</sup> December, 2015. It is proposed to:
- Install wet Limestone based Flue gas Desulphurization (FGD) system for Unit-3,4 and 2
  - Upgrade existing low NOX Burners to New Version Low NOX Burners for Boilers of Unit-3,4 and 2; and
  - Install Selective Catalytic Reduction (SCR) system for Unit-2 to control Oxides of Nitrogen.
- (v) Hence, KMPCL is seeking the amendment in EC for the implementation of new emission norms classified as environmental protection measures, which includes installation of Flue gas Desulphurization (FGD) system, and replacement of existing Low NO<sub>x</sub> burners with New Version Low NO<sub>x</sub> burners in Boiler and installation of Selective Catalytic Reduction systems.
- (vi) The cost of the project is Rs.1400 Crore and which includes FGD facilities, installation of control systems for Oxides of Nitrogen for Units-3, Unit-4 and Unit-2. The expected time of completion of activity is approximately twenty-four to thirty months.
- (vii) M/s KMPCL has acquired 828.46 ha of land to establish 3600 MW (6x600 MW) coal based sub-critical thermal power plant nearby Nariyara village, Akaltara Tehsil, District Janjgir-Champa.
- (viii) Source of coal is South Eastern Coalfields Limited (SECL) and Mahanadi Coal Limited (MCL), a subsidiary of Coal India Limited (CIL). The start-up and stabilization fuels are being LDO and HFO, which are supplied by road through tankers. Two 275 m multi flue stacks with ESP of 99.99% efficiency constructed to control particulate matter to below 50 mg/Nm<sup>3</sup>. Raw water requirement for make-up, service & domestic use of power plant during operational phase is being around 4326 m<sup>3</sup>/h with wastewater RO system, sourced from river Mahanadi.

- (ix) Presently the plant is provided with electrostatic precipitator (ESP) and bag filters for each Unit of 600 MW to control the PM level in the flue gas to 50 mg/Nm<sup>3</sup> which meets the new emission regulations issued by MoEF&CC vide notification No. 3305(E) dated 7<sup>th</sup> December, 2015. The level of PM being monitored is less than 50 mg/Nm<sup>3</sup>.
- (x) It was submitted that TPP current NO<sub>x</sub> emissions are going up to 700 mg/Nm<sup>3</sup> and above the norms of MOEF&CC. Therefore, abatement is required for NO<sub>x</sub> emissions.
- (xi) For Units - 3 & 4 of KMPCL, LNB (with OFA) induct SCR, SCR and ReACT can meet the new target NOX emission limits for Category-2. But, after considering the Cost Effectiveness on continuous basis (for Units - 3 & 4), the LNB (with OFA) option is recommended. In case of Units- 1, 2, 5 & 6 of KMPCL, SCR can meet the new target NOX emission limits for Category-3.
- (xii) The wet lime FGD would treat 100% of flue gas quantity. FGD system would require maximum of about 39.6 TPH of limestone feed for treatment of flue gas, considering  $\geq 90\%$  purity of limestone. The limestone requirement would depend on the sulphur content of the coal and purity of the limestone. The total requirement of limestone per day for all units FGD would be about 950 TPD.
- (xiii) FGD Unit would require a maximum of about 818 m<sup>3</sup>/h of fresh make up water for the process, and subsequently generate maximum of 205 m<sup>3</sup>/h of waste water which requires further treatment. Currently, the maximum fresh water requirement of power plant operations is nearly 8655 m<sup>3</sup>/hr. The installation of new Wet FGD would require additional approx. 818 m<sup>3</sup>/hr of water based on current conditions. Hence additional water requirement for the FGD system would be met from existing water allocation and no additional allocation is required.
- (xiv) The gypsum which is a by-product generated from FGD would be a maximum of about 69 TPH and the total generation of gypsum per day would be about 1663 TPD. It is proposed to convey the gypsum directly on to trucks for disposal or could be dumped in the storage yard located adjacent to the gypsum dewatering building.
- (xv) FGD system that is to be installed should not only meet the present Sulphur level but also to meet increased level in future, so that the plant to be in full compliance with CPCB norms on Sox emission. Currently, Sulphur content of domestic coal and for imported coal shall not exceed 0.6% and 0.8% respectively. Also, the reported data as per Central Electricity Authority (CEA) format also shows that sulphur is 0.69% as received basis. Considering the 10 % margin the design value of 0.8% sulphur should be considered for designing wet FGD system.
- (xvi) The generated power is being supplied to Uttar Pradesh, Tamil Nadu, Chhattisgarh and Andhra Pradesh States through Long Term Power Purchase Agreements.

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

- (i) The proposal is for amendment in Environmental Clearance for Retrofit of pollution control facilities in 3x600 MW units of 6x600 MW Coal Based Thermal Power Plant by M/s KSK

Mahanadi Power Company Limited, located in village Nariyara, Tehsil Akaltara, District Janjgir Champa (Chhattisgarh).

- (ii) Environmental Clearance was accorded by Ministry of Environment, Forest and Climate Change vide its letter no. J-13012/44/2008–IA.II(T) dated 19<sup>th</sup> Oct, 2009 to 6X600 MW Coal based Thermal Power Plant at Nariyara District Janjgir-Champa (Chhattisgarh) by M/s Wardha Power Company Ltd., Corrigendum has been issued vide Ministry's letter dated 19<sup>th</sup> November, 2009, EC was transferred to M/s KSK Mahanadi Power Company Ltd dated 27<sup>th</sup> December, 2010. Amendment in EC for tapering of coal linkage was granted on 24<sup>th</sup> January, 2012. Further amendment and extension in validity of EC was granted by Ministry vide its letter dated 23<sup>rd</sup> September, 2015. Also, amendment in EC was granted on 26<sup>th</sup> May, 2016 regarding change in coal sources for using blended coal. Again amendment in EC was granted on 19<sup>th</sup> April, 2018 in compliance of direction of Hon'ble NGT and validity in extension in EC.
- (iii) It was noted that Unit 2,3 & 4 (1800 MW) of 6x600 MW are commissioned & operating. However, the balance 3 units (Unit-1,5 and 6) are under advanced stages of construction.
- (iv) PP purposed to retrofit of Wet Limestone Based Flue Gas Desulphurization facility to control Sulphur dioxide emissions as per New Emission Norms specified by MOEF&CC vide notification No. 3305 (E) dated 7<sup>th</sup> December, 2015.
- (v) Environmental Clearance granted by the Ministry on 19<sup>th</sup> October 2009 was for 6X600 MW power generation capacity; however, PP could commission the Unit 2, 3 & 4 (1800 MW) with capacity of 3X600 MW only within the validity period as prescribed under EIA Notification, 2006 as amended. Now the PP wants to retrofit of Wet Limestone Based Flue Gas Desulphurization facility to control Sulphur dioxide emissions as per New Emission Norms specified by MOEFCC vide notification No. 3305 (E) dated 7<sup>th</sup> December, 2015 and therefore amendment in the existing EC dated 19.10.2019. PP has also requested for time for installation of Retrofit of Pollution control facilities as per S.O. 3305 (E) dated 7<sup>th</sup> December, 2015 for its already existing units in 3x 600 MW.
- (vi) The EAC observed that PP is not complying with emission norms of NO<sub>x</sub> and SO<sub>2</sub> as per Ministry notification though PM norms are being complied. Further, considering Ministry notification dated 31<sup>st</sup> March, 2021 regarding extension of timeline for meeting the emissions norms, the EAC desired that PP shall take strict measures for installation of proposed Pollution Control Equipment (PCE) within certain timelines.

**12.3.4** *The EAC was of the view that the Unit 2,3 & 4 (1800 MW) with capacity of 3X600 MW have been commissioned, so, the EC issued by the Ministry vide letter No.J-13012/44/2008 – IA.II(T) dated 19<sup>th</sup> Oct, 2009 with capacity of 6X600 MW may be restricted to the capacity of 3X600 MW only. The EAC also **recommended** the proposal for amendment in EC to install PCE of NO<sub>x</sub> and SO<sub>2</sub> as per instructions issued by the Ministry. Further PP shall comply following specific condition in addition to all others conditions mentioned in EC and EC amendments:*

- (i) *PP shall submit details with breakup of activity of installation of PCEs for control of SO<sub>2</sub> and NO<sub>x</sub> to Ministry's Regional office within one month of issue of this letter.*



- (ii) *PP shall conduct additional 50 ha of afforestation (beyond 33% norms) and maintain survival rate over 90% throughout the year for every plant species, only Sal Trees shall be planted and maintained.*
- (iii) *PP shall not increase extra land for ash dyke for disposal of Fly Ash and Bottom Ash. Existing land area available shall be used.*
- (iv) *Transportation of Gypsum and Limestone should only in 35-40 tonne covered dumpers/trucks.*
- (v) *State Pollution Control Board may stipulate additional conditions to ensure the emission norms due to transportation.*

#### **Agenda No. 12.4**

**2x800MW Stage-III Uppur Supercritical Thermal Power Plant located in villages Uppur, Valamavoor & Thiruppalaikudi, Tehsil Thiruvadana, District Ramanathapuram, Tamil Nadu by M/s TANGEDCO – Compliance of directions of the Hon'ble National Green Tribunal (Southern Bench) at Chennai passed vide Order dated 17.03.2021 in the appeal no. 144/2016 (SZ) - reg.**

**12.4.1** Member Secretary informed the EAC that Hon'ble NGT (SZ) at Chennai in the matter of Appeal No. 144 of 2016 while disposing the case has inter-alia passed following directions:

- (i) *The Environmental Clearance (EC) is under challenge dated 18<sup>th</sup> May, 2016 issued to the project proponent is liable to be kept in abeyance till fresh appraisal is conducted by the MoEF&CC on the points mentioned above and to be reappraised by the Expert Appraisal Committee (EAC) and further appropriate decision is taken on the following aspects:*
- (ii) *The project proponent has to be directed to conduct fresh coal analysis in respect of specific coal which they have intended to use in respect of radio activity and the possible ash content and other aspects as has been observed by the Principal Bench in Appeal No.07 of 2011(Krishi Vigyan Arogya Sanstha & Ors. Vs. The Ministry of Environment & Forests, Govt. of India & Ors.) and get afresh Environmental Impact Assessment (EIA) Report from the competent accredited agency in this regard.*
- (iii) *Since the land acquisition proceedings have been set aside by the Hon'ble High Court of Madras and the appeal is pending before the Hon'ble Supreme Court with certain operation of stay has been made and the exact land that is available with the project proponent and whether that is sufficient to meet the conditions to be imposed for operating the unit in an environmental friendly manner to be assessed by the Expert Appraisal Committee (EAC) independently by conducting inspection of the area and satisfying about the sufficiency of the land available in the possession of the project proponent and take appropriate decision on that aspect.*
- (iv) *Further study will have to be conducted regarding the probable height of the mast of the country boat that is being used by the local fishermen community in view of the changed circumstances discussed above and consider whether what is the proper/appropriate*

*modification is required regarding the height of the bridge to be provided and its feasibility and probable cause of impact on marine ecology.*

*(v) The Ministry of Environment, Forests & Climate Change (MoEF&CC) is directed to issue necessary Terms of Reference in the above lines and forward the matter to the Expert Appraisal Committee (EAC) for its further appraisal of the project on those aspects, after getting further Environmental Impact Assessment (EIA) from the project proponent and get their recommendations and after conducting independent enquiry by the Expert Appraisal Committee (EAC) on those aspects by deputing their own experts, if required and thereafter, reconsider and issue necessary revised Environmental Clearance (EC) incorporating additional conditions, if any required to the project proponent.*

*(vi) All these exercises will have to be completed within a period of 6 (Six) months. Till then, the impugned Environmental Clearance (EC) is directed to be kept in abeyance and the project proponent is directed to suspend their work till they get the revised Environmental Clearance (EC) incorporating the above aspects as well.*

#### **12.4.2 It was also informed the EAC that:**

1. The Environmental Clearance was granted vide Letter. No. J-13012/01/2012-IA.II (T) dated 18<sup>th</sup> May, 2016 to 2X800 MW Uppur Super Critical Imported Coal based Thermal Project at villages Uppur, Valamavoor & Thiruppalaikudi, Tiruvadana Taluk, Ramanathapuram District Tamil Nadu by M/s Tamil Nadu Generation and Distribution Corporation (TANGEDCO) and Further EC amendment on 29<sup>th</sup> October, 2018.
2. As informed by the project proponent after the directions passed by Hon'ble NGT (SZ) all the works in the Uppur STPP (2 X 800 MW) have been suspended.
3. The EC for the power plant is valid for a period of 7 years from the date of issue of this letter for the start of production operations by the TPP. The CRZ clearance for foreshore facilities shall be valid for a period of 5 years from the date of issue of this letter for commencement of construction & operations of foreshore facilities.
4. TANGEDCO has commenced the project activities in the year 2016 and works are in progress amid Corona pandemic situation. It is informed that they have so far incurred expenditure of more than Rs. 2000 Crs. for establishing the captioned power project.

#### **12.4.3 The EAC examined the directions passed by Hon'ble NGT and project details made available. After detailed deliberations the recommended the following:**

1. *The PP shall submit the fresh Environmental Impact Assessment (EIA) Report from the competent accredited agency in line with the directions issued by the Hon'ble NGT (SZ).*
2. *Detailed study shall be done which would consider whether modification is required in the height of the bridge to be provided and its feasibility and probable cause of impact on marine ecology.*

3. *PP shall submit aerial survey/drone video of the full project area.*
4. *A sub-committee comprising following members will visit the site to comply with Hon'ble NGT (SZ) directions regarding land acquisition, Sub-committee and to study whether land available in the possession of the project proponent is sufficient to meet the conditions to be imposed for operating the unit in an environmental friendly manner:*
  - i. *Dr. N. P. Shukla-Chairman*
  - ii. *Dr. Santosh Kumar*
  - iii. *Shri M. P. Singh, Representative of CEA*
  - iv. *Representative from MoEF&CC*

**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.	Dr. N. P Shukla	Member	P
3.	Shri Suramya Vora	Member	P
4.	Dr. Santosh Kumar	Member	P
5.	Dr. Umesh Jagannathrao Kahalekar	Member	A
6.	Shri K. B. Biswas	Member	P
7.	Dr. Nandini. N	Member	P
8.	Dr. Unmesh 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

## APPROVAL OF THE CHAIRMAN



**Yogendra Pal Singh** via nic.in  
to me ▾

9:54 AM (7 minutes ago) ☆ ↶ ⋮

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**From:** "Yogendra Pal Singh" <[yogendra78@nic.in](mailto:yogendra78@nic.in)>  
**To:** [gpkundargi@gmail.com](mailto:gpkundargi@gmail.com)  
**Sent:** Monday, July 5, 2021 8:14:00 PM  
**Subject:** Re: Draft MOM of the 12th EAC (Thermal) held on 14.06.2021-reg.

OK Sir.

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**From:** [gpkundargi@gmail.com](mailto:gpkundargi@gmail.com)  
**To:** "Yogendra Pal Singh" <[yogendra78@nic.in](mailto:yogendra78@nic.in)>  
**Cc:** "suramya vora" <[suramya.vora@gmail.com](mailto:suramya.vora@gmail.com)>, [shuklanp55@gmail.com](mailto:shuklanp55@gmail.com), [Santoshkumar777@yahoo.com](mailto:Santoshkumar777@yahoo.com), [ukahalekar@rediffmail.com](mailto:ukahalekar@rediffmail.com), [biswaskiriti@gmail.com](mailto:biswaskiriti@gmail.com), "sai nandinin" <[sai.nandinin@gmail.com](mailto:sai.nandinin@gmail.com)>, "unmesh patnaik" <[unmesh.patnaik@tiss.edu](mailto:unmesh.patnaik@tiss.edu)>, [pkmsipat11@gmail.com](mailto:pkmsipat11@gmail.com), "Nazimuddin" <[Nazim\\_cpcb@nic.in](mailto:Nazim_cpcb@nic.in)>, "Sanjeev Paliwal" <[sanjeevpaliwal\\_cpcb@nic.in](mailto:sanjeevpaliwal_cpcb@nic.in)>, [nsmondalcea@yahoo.com](mailto:nsmondalcea@yahoo.com), "Nitya Saron Mondal" <[nsmondal@nic.in](mailto:nsmondal@nic.in)>, [sheoshankar@jitism.ac.in](mailto:sheoshankar@jitism.ac.in), "rk giriccs" <[rk.giriccs@gmail.com](mailto:rk.giriccs@gmail.com)>  
**Sent:** Monday, July 5, 2021 7:57:25 PM  
**Subject:** Re: Draft MOM of the 12th EAC (Thermal) held on 14.06.2021-reg.

Dear Yogendra ji

Draft minutes are fine with me.If there are no further comments from other members.Minutes can be taken as approved for further needful action

Thank you

G P Kundargi

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