



सत्यमेव जयते

Government of India
Ministry of Environment, Forest and Climate Change
IA Division
(Thermal Projects)



Minutes of AGENDA OF 43RD MEETING OF THE EXPERT APPRAISAL COMMITTEE Expert Appraisal Committee meeting Thermal Projects held from Date: 10/07/2023 19/06/2023 to 19/06/2023

MoM ID: EC/MOM/EAC/333273/6/2023
Agenda ID: EC/AGENDA/EAC/333273/6/2023
Meeting Venue: MoEF&CC, INDIRA PARYAVARAN BHAWAN
Meeting Mode: Physical
Date & Time:

19/06/2023	10:30 AM	05:30 PM
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1. Opening remarks

The 43rd 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 19th June,2023 at MoEF&CC, Indira Paryavaran Bhawan, under the Chairmanship of Shri Gururaj P. Kundargi.

2. Confirmation of the minutes of previous meeting

The Minutes of the 42nd EAC (Thermal Power) meeting held on 01.06.2023 were confirmed in the meeting.

3. Details of proposals considered by the committee

Day 1 -19/06/2023

3.1. Agenda Item No 1:

3.1.1. Details of the proposal

1x660 MW (Unit VI) Supercritical TPP by MAHAGENCO by JAYAKUMAR SUBHASH DUGE located at JALGAON,MAHARASHTRA			
Proposal For		Application for Validity Extension of EC- Form-6	
Proposal No	File No	Submission Date	Activity (Schedule Item)
IA/MH/THE/432684/2023	J-13012/75/2010-IA.II(T)	08/06/2023	Thermal Power Plants (1(d))

3.1.2. Project Salient Features

The proposal is for grant of extension of validity environmental clearance (EC) to 1x660 MW (Unit- VI) Super-Critical Technology Bhusawal Coal Based TPP in an area of 115.93 Ha at Village Pimpri-Sekam, Taluk Bhusawal, District Jalgoan, Maharashtra by M/s Maharashtra State Power Generation Co. Ltd.

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

1. The Environment clearance was accorded to 1x660 MW Super Critical TPP at Bhusawal vide letter no. J-13012/75/2010-IA.II (T), dated 27.11.2012 which was valid for five years i.e. till 26.11.2017.
2. Further, in line EIA Notification 2006, as amended the Ministry issued a notification dated 14.09.2016, through which the said environment clearance was valid for seven years. A letter, J-13012/75/2010-IA.II (T), dated 30.05.2017, in this regard was obtained from ministry. Accordingly, the validity of EC extended till 26.11.2019.
3. Due to non-completion of project activities within the said timeline i.e 26.11.2019, further EC validity extension for three years i.e. up to 26.11.2022 was granted by ministry vide letter, J-13012/75/2010-IA.II (T), dated 14.01.2020.
4. Also, the amendment in Environment Clearance was obtained vide letter no. J-13012/75/2010-IA.II(T) dated 11.09.2020 regarding change in Coal Source and flue gas exit velocity.
5. Further, in view of outbreak of Corona Virus (COVID-19) and subsequent lockdowns imposed, Ministry notification S.O. 221 (E), dated 18/01/2021 provided one-year exemption in the validity of EC. In view of the said notification, the validity of Bhusawal Project remains valid till 26.11.2023. A letter dated 10.03.2022 was also submitted to MoEF & CC to appraise the same.
6. **Reasons of the delay in implementation:** M/s BHEL (EPC contractor) off-loaded works from non-performing contractors for Natural Draft Cooling Tower (NDCT) civil work, Coal Handling Plant (CHP) civil work, Flue Gas Desulphurization (FGD) civil work and Ash Handling Plant (AHP) package civil work and awarded the contracts to the new contractors.

However, it has delayed the civil works of CHP, AHP and FGD package. Also the areas where delay occurred are given below:

a. Slow progress of Civil works of CHP package - Slow progress of Work of CHP MCC-3 could prove major bottleneck for CHP commissioning, Construction of cable rack for extending the supply to CHP MCC is also in critical path. All the balance work of CHP is expected to finish by Feb-2024.

b. Slow progress of Ash Disposal Pipe Lines (ADPL) - Pedestals of approximately 07 Km, AHP MCC-2 could be major bottleneck for coal firing and trial operation. In spite of constant follow-up from this office, work of pedestals in railway culvert and high way culvert is not taken up by M/s BHEL. This is major bottleneck in AHP works. The works of pushing ADPL under railway line is undertaken by MSPGCL is at approval stage and work is yet to start. All the works in ADPL are expected to finish by Feb-2024.

c. Flue Gas Desulphurization (FGD) – Erection work in absorber, ducts, ducts support structure, RC PH, various tanks, FGD Control room etc under progress. Installation of FGD is statutory requirement for consent to operate. The progress of civil works is very slow and most of the fronts are still not handed over for mechanical and electrical erection agency. The civil works of M/s BJCL scope are awarded to M/s PMPL. However, work progress is slow and fronts such as lime stone crusher & Gypsum dewatering building is standstill and these works are to be started on top priority. Expected date of completion of work is June 2024.

d. Selective Catalytic Reduction System - SCR is being erected first time in India by M/s BHEL for this Project and there is enormous delay in engineering, supply and erection of SCR. The erection work got delayed due lack of erection methodology being first time erection by BHEL. Even after mobilization of 600 MT crane in August 2022, there is hardly any progress in SCR works. Now M/s BHEL decided to carry out erection of SCR from RHS of Boiler and it will be holdup for erection of galleries between Coal conveyer TP-4 and RHS of Coal Mill Bunkers. RHS being lower mills will be required for trial operation. It is a major bottleneck for trial operation of the unit. The work is expected to finish by Jan-2024.

e. ETP & STP area- The work of ETP & STP is in progress which is critical in view of upcoming milestone such as commissioning of DM plant, Steam blowing, Coal firing and full load and the other milestone activities especially COD of the unit. The work is expected to finish by March-2024.

f. Railway siding and Signal & Telecommunication (S&T) works - By observing quantum of work remaining in the railway siding, it can prove major bottleneck for readiness of CHP for trial operations. The works of S&T is under approval stage (MAHAGENCO scope) and yet to start. Considering cycle time required for the work it is expected to finish by Feb-2024.

g. Delay in supply of material due to Covid-19 and steep rise in prices of the material - Borosilicate & its adhesive material is required for completion of chimney works is delayed due to outbreak of recent Covid in China. Further delayed due to steep rise in prices of copper and steel. M/s BHEL have to either renegotiate or reorder some material such as transformers, piping material, cables etc. which ultimately delayed the project works.

7. Progress of implementation of the project (Physical progress) is as under:

Sr. No.	Packages	Present Status	% Completion	Completed/ Anticipated Date
1	Boiler- Civil works	Completed	85.66%	15/11/2019
2	Boiler- Structural works	Work in progress		15/08/2023
3	Boiler- Pressure parts completion	Work in progress		15/08/2023
4	TG- Civil works	Completed	90.56%	11/01/2021
5	TG-Structural works	Work in progress		15/07/2023
6	TG- Pressure parts completion (Boiler feed line piping)	Work in progress		15/08/2023
7	ESP	Work in progress	97.28%	15/07/2023
8	FGD-Civil works	Work in progress	34%	31/12/2023
9	FGD- Material supply	Work in progress		15/09/2023
10	FGD- Erection work	Work in progress		30/06/2024
11	Chimney	Work in progress	99%	10/09/2023
12	Coal Handling Plant	Work in progress	58.3%	28/02/2024
13	Ash Handling Plant	Work in progress	60%	28/02/2024
14	SCR	Work in progress	28%	31/01/2024
15	ETP & STP	Work in progress	25%	31/03/2024
16	Fuel Oil System	Completed	100%	30/03/2023
17	Cooling Towers	Work in progress	93%	15/07/2023
18	CW Pump house	Work in progress	95%	15/07/2023
19	CW Piping	Work in progress		15/07/2023
20	PT Plant	Work in progress	54%	15/08/2023
21	DM Plant	Work in progress	97%	15/07/2023
22	Air Compressor	Completed	100%	30/04/2023
23	Fire Protection Pump House	Work in progress	91%	30/06/2023
24	Fire Protection piping	Work in progress	25%	15/07/2023

25	Switch yard	Completed	100%	25/01/2023
26	Station Transformer	Work in progress	65%	25/07/2023
27	Unit Transformer	Work in progress		25/08/2023
28	Railway siding including S&T	Work in progress	73%	28/02/2024
29	Power Evacuation	Completed	100%	15/06/2023

3.1.3. Deliberations by the EAC in previous meetings

N/A

3.1.4. Deliberations by the EAC in current meetings

The EAC during deliberations noted the following:

The proposal is for grant of Extension of Validity Environmental Clearance (EC) to 1x660 MW (Unit- VI) Super-Critical Technology Bhusawal Coal Based TPP in an area of 115.93 Ha at Village Pimpri-Sekam, Taluk Bhusawal, District Jalgoan, Maharashtra by M/s Maharashtra State Power Generation Co. Ltd.

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.

Earlier, Environment Clearance was accorded to 1x660 MW Super Critical TPP at Bhusawal vide letter no. J-13012/75/2010-IA.II (T), dated 27.11.2012 followed by amendment in EC vide letter dated 30.05.2017 and 14.01.2020.

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.

The EAC noted that as per extent rules and regulations the Environmental Clearance dated 27.11.2012 is valid till 26.11.2023. The EAC also observed that EMP activities w.r.t. green belt development have not been started yet. It is mandatory for the proponent to fulfill their environmental obligations and take immediate steps to rectify the situation in the upcoming monsoon season.

*The EAC after detailed deliberation on the information submitted **recommended** the proposal for Extension of Validity Environmental Clearance (EC) dated 27.11.2012 for one more i.e. till 26.11.2024 to 1x660 MW (Unit- VI) Super-Critical Technology Bhusawal Coal Based TPP in an area of 115.93 Ha at Village Pimpri-Sekam, Taluk Bhusawal, District Jalgoan, Maharashtra by M/s Maharashtra State Power Generation Co. Ltd., under the provisions of EIA Notification, 2006 and as amended along with the following additional conditions:*

1. Action plan for green plantation shall be prepared. A dedicated team under supervision of project head shall work for developing green belt as per CPCB guidelines or as recommended in the EC letter. Green plantation shall be carried out before the month of October, 2023 around the plant boundary. Action plan and its implementation shall be certified by IRO, Nagpur in the month of October.
2. All the conditions mentioned in the EC dated read with amendment dated 11.09.2020 shall remain unchanged.

3.1.5. Recommendation of EAC

Recommended

3.2. Agenda Item No 2:

3.2.1. Details of the proposal

Amendment in Environmental Clearance due to change in mode of disposal of treated waste from GIDC drainage to own dedicated deep sea discharge pipeline with diffuser outfall for Gas based captive power plant with installed steam & power capacity of 880 TPH & 195 MW by M/s. ONGC Petro additions Limited (OPaL), Village Ambhetha, Taluka Vagra, District Bharuch, Gujarat by ONGC PETRO ADDITIONS LIMITED located at BHARUCH,GUJARAT			
Proposal For		Amendment in EC	
Proposal No	File No	Submission Date	Activity (Schedule Item)
IA/GJ/THE/431339/2023	21-1084/2007-IA.III	29/05/2023	Thermal Power Plants (1(d))

3.2.2. Project Salient Features

The proposal is for grant of amendment in Environmental Clearance to Gas based captive power plant with installed steam & power capacity of 880 TPH & 195 MW at Village Ambhetha, Taluka Vagra, District Bharuch, Gujarat by M/s. ONGC Petro additions Limited.

3.2.3. Deliberations by the EAC in previous meetings

N/A

3.2.4. Deliberations by the EAC in current meetings

The details of the project submitted by project proponent and ascertained from the document submitted, it was found that Environmental Clearance was accorded by the Industry sector of this Ministry. The EAC suggested the PP to apply in Industry sector so that a comprehensive view may be taken on the proposal. The EAC therefore decided to return the proposal in present form.
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3.2.5. Recommendation of EAC

Returned in present form

3.3. Agenda Item No 3:

3.3.1. Details of the proposal

NLC TAMILNADU POWER LIMITED by NLC TAMILNADU POWER LIMITED located at TUTICORIN,TAMIL NADU	
Proposal For	Amendment in EC

Proposal No	File No	Submission Date	Activity (Schedule Item)
IA/TN/THE/431783/2023	J-13012/68/2006-IA-II(T)	10/06/2023	Thermal Power Plants (1(d))

3.3.2. Project Salient Features

The proposal is for amendment in Environmental Clearance granted by the Ministry vide letter dated 13.06.2007 for 2x500 MW Tuticorin Thermal Power Project in an area of 135 ha at District Thoothukkudi, Tamil Nadu in favour of M/s Neyveli Lignite Corporation Limited.

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

1. The Ministry of Environment, Forests and Climate Change (MoEF&CC) erstwhile MoEF accorded Environment Clearance (EC) for 2X500MW Tuticorin Thermal Power Project, District Tuticorin, Tamilnadu, NLC Tamilnadu Power Limited vide letter no. J-13012/68/2006-IA.II(T) dated 13.06.2007 and susquent extension vide letter dated 11.01.2013.
2. The MoEF&CC stipulated the Capital & Recurring Annual Expenditure towards CSR activities as 0.4% of the capital cost of the project and 0.08% of the capital cost of the project respectively. Accordingly, the EC extension letter dated 11.01.2013 included additional condition no. (xxxiv) towards CSR activities as follows:

“An amount of Rs. 19.63 Crores shall be earmarked as one-time capital cost for CSR programme. Subsequently a recurring expenditure of Rs. 3.93 Crores per annum till the life of the plant shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted to the Regional Office of the Ministry along with road map for implementation”.

Request:

3.The project proponent submitted the proposal on 10/06/2023 requesting for deleting the condition no. (xxxiv) of EC extension letter dated 11.01.2013.

Justification:

4.Comprehensive guidelines on CER was later issued by MoEF&CC vide OM dated 01.05.2018 which supersedes the above stipulations made in respect of CSR in subsequent ECs including that of NTPL.

5.CSR expenditure is subject to Governmental and Ministerial guidelines. NTPL follows CSR provisions of Companies Act 2013 for taking up CSR activities and it is taken up as per the request received from the District Authorities so that the local necessities are met. NTPL is committed to inclusive growth and sustainable development with special focus on the neighborhood communities.

6.The CSR activities to be undertaken by an industry is under the domain of Ministry of Corporate Affairs under the Companies Act, 2013. The stipulation of conditions pertaining to CSR by MOEF&CC will create ambiguity in multiple reporting and duplication.

7.M/s NTPL has achieved commercial operation of 2X500 MW units in 2015.

8.NTPL identified & carried out various CSR projects/ activities in association with the Office of the District Collector in the following thrust areas as mentioned below:

- Infrastructural development projects like construction of roads
- Welfare projects like desilting of lakes
- Marine life conservation projects in the Gulf of Mannar Marine Biosphere area,
- Drinking water, sanitation, health/medical facilities
- Education & skill development etc.

- Art, Culture and Sports
- Environmental Protection and Community Development

9. Expenditure incurred/earmarked towards CSR activities for NTPL (2x500) MW amounts to a total value of Rs. 30.91 Crores till FY 2022-23.

3.3.3. Deliberations by the EAC in previous meetings

N/A

3.3.4. Deliberations by the EAC in current meetings

The EAC during deliberations noted the following:

The proposal is for amendment in Environmental Clearance granted by the Ministry vide letter dated 13.06.2007 for 2x500 MW Tuticorin Thermal Power Project in an area of 135 ha at District Thoothukkudi, Tamil Nadu in favour of M/s Neyveli Lignite Corporation Limited.

Earlier, the Ministry of Environment, Forests and Climate Change (MoEF&CC) erstwhile MoEF accorded Environment Clearance (EC) for 2X500MW Tuticorin Thermal Power Project, District Tuticorin, Tamilnadu, NLC Tamilnadu Power Limited vide letter no. J-13012/68/2006/IA.II(T) dated 13.06.2007 and subsequent extension vide letter dated 11.01.2013.

The EAC opined that PP shall prepare a chart after compiling all the issues raised and commitments made by the PP during the public hearing along with implementation status, expenditure (including recurring cost) and additional activities carried out by the PP. All the details desired by the EAC shall be examined and certified by the IRO, MoEF&CC.

The proposal was *deferred* on the above lines.

3.3.5. Recommendation of EAC

Deferred for ADS

3.4. Agenda Item No 4:

3.4.1. Details of the proposal

Expansion of existing 2x300 MW coal based thermal unit by installing new 1x800 MW supercritical unit at Deen Bandhu Chhotu Ram Thermal Power Plant (DCRTPP), Yamuna Nagar, Haryana. by HARYANA POWER GENERATION CORPORATION LIMITED located at YAMUNANAGAR, HARYANA

Proposal For		Amendment in ToR	
Proposal No	File No	Submission Date	Activity (Schedule Item)
IA/HR/THE/430819/2023	J-13012/14/2004-IA-II (T)	06/06/2023	Thermal Power Plants (1(d))

3.4.2. Project Salient Features

The proposal is for amendment in the Terms of Reference granted by the Ministry vide letter dated

24th March, 2023 for the project Expansion of existing 2x300 MW coal based thermal unit by installing new 1x800 MW supercritical unit in an area of 409.242 Ha at Deen Bandhu Chhotu Ram Thermal Power Plant (DCRTPP), Sub-district Jagadhri, District Yamuna Nagar, Haryana by M/s Haryana Power Generation Corporation Limited.

The project proponent has requested for amendment in the ToR with the details are as under:

1.The Environmental Clearance (EC) of the existing 2x300 MW coal based Thermal power plant has been accorded by MoEF&CC vide letter no. J-13012/14/2004.IA-II(T) dated 18th November 2004. Amendment in Environmental Clearance for installation of Solar power plant within the 90 acres of the vacant HPGCL land between Ash pond and Saharanpur-Jagadhri Railway line was accorded by MoEF&CC vide J-13012/14/2004.IA-II(T) (Part) dated 11th July, 2016.

2.The MoEF&CC accorded ToR vide letter No. J-13012/14/2004-IA.II(T) dated 24th March, 2023for Expansion of existing 2x300 MW coal based thermal unit by installing new 1x800 MW supercritical unit in an area of 409.242 Ha at Deen Bandhu Chhotu Ram Thermal Power Plant (DCRTPP), Sub- district Jagadhri, District Yamuna Nagar, Haryana by M/s Haryana Power Generation Corporation Limited.

3.The PP submitted proposal dated 06/06/2023 for amendment in Terms of Reference. The amendment has been sought with the details as under:

S. No.	Para of ToR issued by MoEF&CC	Details as per the ToR	To be revised/ read as	Justification/ reasons
1.	Clause 3	The project/activity is covered under category A of item 1(c) 'River Valley projects' 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/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.	Proposed Project is for expansion by installing new 1x800 MW ultra-supercritical thermal power unit at existing plant of DCRTPP, HPGCL. ToR application was also made under the item 1(d) 'Thermal Power Plants'.
2.	Clause 6.[A].i. under specific TOR	Commitment for no construction in 45 ha of forest land.	Commitment for no construction in 7.94 ha of forest land.	Total Forest land within the project area is 7.94 ha. NOC from Forest Department obtained. Forest land present is being preserved and protected. No expansion is proposed in the forest land.
3.	Project Name – Subject, Clause 2,5	Expansion of existing 2x300 MW coal based	Expansion of existing 2x300 MW coal based	Based on the latest technology trends

	and 6.	thermal unit by installing new 1x800 MW supercritical unit at Deen Bandhu Chhotu Ram Thermal Power Plant (DCRTPP) at Yamuna Nagar, Haryana by M/s Haryana Power Generation Corporation Limited.	thermal unit by installing new 1x800 MW ultra-supercritical unit at Deen Bandhu Chhotu Ram Thermal Power Plant (DCRTPP) at Yamuna Nagar, Haryana by M/s Haryana Power Generation Corporation Limited.	prevailing in the market for 800 MW thermal power projects, it is proposed to take up Ultra Super Critical technology for the proposed 800 MW project.
4.	Layout Map	No new raw water reservoir was proposed. Existing reservoir will be used for the proposed project also. Railway marshalling yard has been proposed.	Certain facilities like new raw water reservoir, new rain water holding pond with liner, new Railway marshalling yard with MGR, new Ammonia storage building are now proposed.	It is envisaged that storage, logistic and layout bottlenecking will be there in existing layout. Therefore, change in layout with new reservoir, rain water holding pond, ammonia storage, railway marshalling yard etc. has been proposed.

3.4.3. Deliberations by the EAC in previous meetings

N/A

3.4.4. Deliberations by the EAC in current meetings

The EAC during deliberations noted the following:

The proposal is for grant of amendment in the Terms of Reference granted by the Ministry vide letter dated 24th March, 2023 for the project Expansion of existing 2x300 MW coal based thermal unit by installing new 1x800 MW supercritical unit in an area of 409.242 Ha at Deen Bandhu Chhotu Ram Thermal Power Plant (DCRTPP), Sub- district Jagadhri, District Yamuna Nagar, Haryana by M/s Haryana Power Generation Corporation 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 EAC noted that MoEF&CC accorded additional and standard ToR vide letter No. J-13012/14/2004-IA.II (T) dated 24th March, 2023 wherein it is mentioned that it shall also be ensured that a minimum of 500 m distance of plant

boundary is kept from the HFL of river system/ streams etc. and the boundary of site should also be located 500 m away from railway track and National Highways.

The PP has now proposed new raw water reservoir, new rain water holding pond with liner, new Railway marshalling yard with MGR and new Ammonia storage building which lies on green plantation of 500m from railway line. The EAC noted that the yardstick of keeping the plant boundary 500m away from railway track and National Highways is as per Standard TOR framed by the Ministry for conducting EIA study for thermal power plant, secondly, this piece of land has been converted into good patch of green plants. So, it is not advisable to accommodate the same for construction of thermal power plant components.

*The EAC after detailed deliberation on the information submitted **agreed to** for amendments sought at S. No, 1, 2 and 3 and not recommended S.No. 4 i.e. changes in the layout map as proposed by the PP and suggested to surrender the forest land which are under possession with them to State Forest Department and look for other possibilities for construction of new raw water reservoir, new rain water holding pond with liner, new Ammonia storage building and MGR.*

3.4.5. Recommendation of EAC

Recommended

3.4.6. Details of Terms of Reference

3.4.6.1. Specific

EAC deliberation

- | | |
|----|---|
| 1. | <i>The EAC after detailed deliberation on the information submitted agreed to for amendments sought at S. No, 1, 2 and 3 and not recommended S.No. 4 i.e. changes in the layout map as proposed by the PP and suggested to surrender the forest land which are under possession with them to State Forest Department and look for other possibilities for construction of new raw water reservoir, new rain water holding pond with liner, new Ammonia storage building and MGR.</i> |
|----|---|

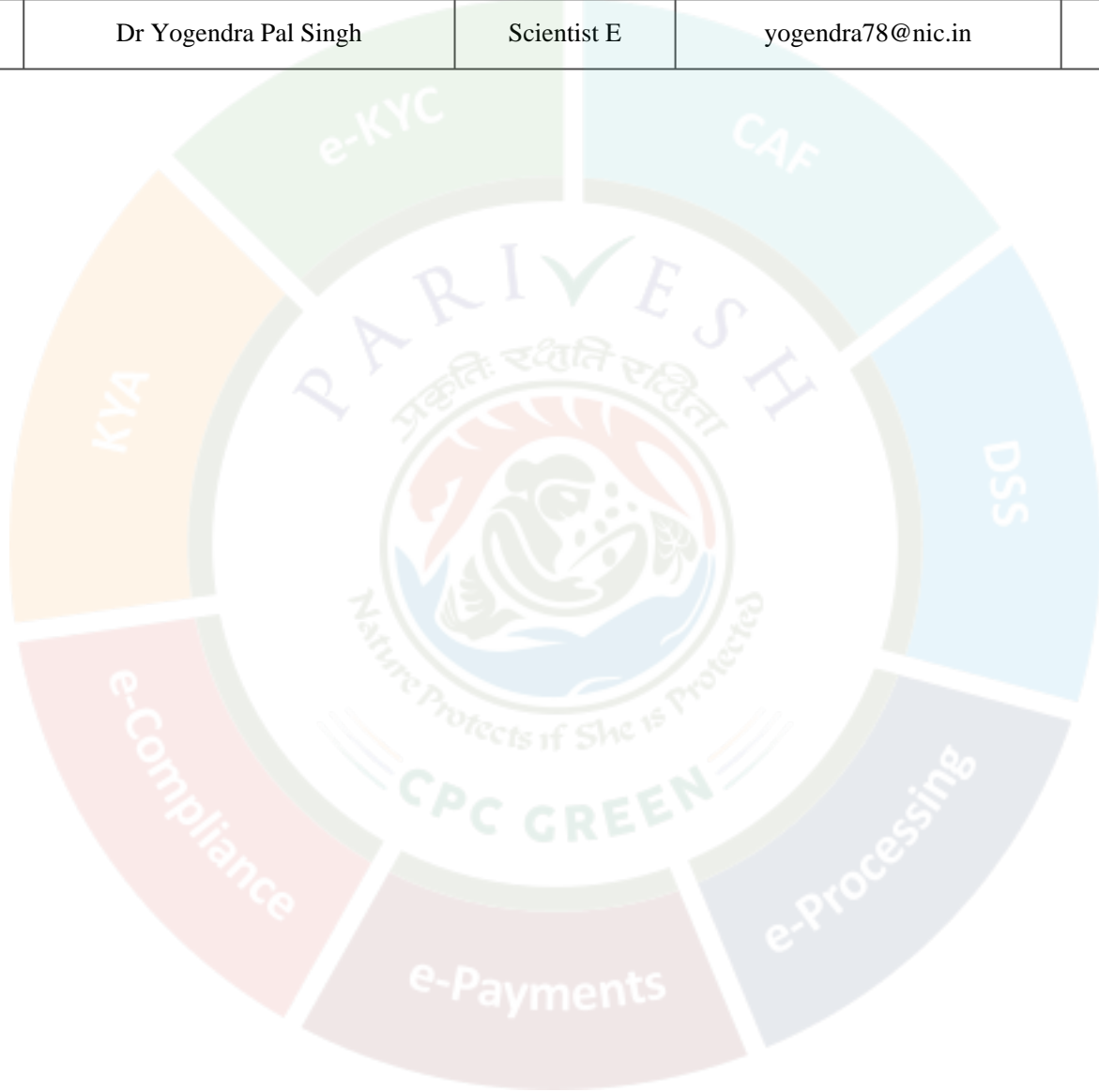
4. Any Other Item(s)

N/A

5. List of Attendees

Sr. No.	Name	Designation	Email ID	Remarks
1	Shri Gururaj P Kundargi	Chairman, EAC	gpkundargi@gmail.com	
2	Shri Suramya Dolarray Vora	Member (EAC)	suramya.vora@gmail.com	
3	Dr Narmada Prasad Shukla	Member (EAC)	shuklanp55@gmail.com	Absent
4	Dr Santoshkumar Hampannavar	Member (EAC)	santoshkumar777@yahoo.com	
5	Dr Umesh Jagannathrao Kahalekar	Member (EAC)	ukahalekar@rediffmail.com	
6	Shri K B Biswas	Member (EAC)	biswaskiriti@gmail.com	

7	Dr Nandini N	Member (EAC)	sai.nandinin@gmail.com	
8	Dr Unmesh Patnaik	Member (EAC)	unmesh.patnaik@tiss.edu	Absent
9	Dr Nazimuddin	Member (EAC)	nazim.cpcb@nic.in	
10	Shri Mahi Pal Singh	Member (EAC)	mpsingh.cea@nic.in	
11	Dr R K Giri	Member (EAC)	rk.giriccs@gmail.com	Absent
12	Professor Sheo Shanker Rai	Member (EAC)	sheoshankar@iitism.ac.in	Absent
13	Dr Yogendra Pal Singh	Scientist E	yogendra78@nic.in	



MINUTES OF THE 43RD MEETING OF THE RE-CONSTITUTED EXPERT APPRAISAL COMMITTEE (EAC) ON ENVIRONMENTAL IMPACT ASSESSMENT (EIA) OF THERMAL POWER PROJECTS HELD ON 19TH JUNE, 2023.

The 43rd 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 19th June, 2023 at MoEF&CC, Indira Paryavaran Bhawan, under the Chairmanship of Shri Gururaj P. Kundargi. The list of Members participated in the meeting is at **Annexure**.

Agenda Item No. 43.1: Confirmation of the Minutes of the 42nd EAC meeting

The Minutes of the 42nd EAC (Thermal Power) meeting held on 01.06.2023 were confirmed in the meeting.

Agenda Item No. 43.2

Expansion of existing 2x300 MW coal based thermal unit by installing new 1x800 MW supercritical unit in an area of 409.242 Ha at Deen Bandhu Chhotu Ram Thermal Power Plant (DCRTPP), Sub- district Jagadhri, District Yamuna Nagar, Haryana by M/s Haryana Power Generation Corporation Limited- Amendment in Terms of Reference (ToR) – reg.

[Proposal No. IA/HR/THE/430819/2023; F. No. J-13012/14/2004-IA-II (T)]

43.2.1 The proposal is for amendment in the Terms of Reference granted by the Ministry vide letter dated 24th March, 2023 for the project Expansion of existing 2x300 MW coal based thermal unit by installing new 1x800 MW supercritical unit in an area of 409.242 Ha at Deen Bandhu Chhotu Ram Thermal Power Plant (DCRTPP), Sub- district Jagadhri, District Yamuna Nagar, Haryana by M/s Haryana Power Generation Corporation Limited.

43.2.2 The project proponent has requested for amendment in the ToR with the details are as under:

- i. The Environmental Clearance (EC) of the existing 2x300 MW coal based Thermal power plant has been accorded by MoEF&CC vide letter no. J-13012/14/2004-IA-II(T) dated 18th November 2004. Amendment in Environmental Clearance for installation of Solar power plant within the 90 acres of the vacant HPGCL land between Ash pond and Saharanpur-Jagadhri Railway line was accorded by MoEF&CC vide J-13012/14/2004-IA-II(T) (Part) dated 11th July, 2016.
- ii. The MoEF&CC accorded ToR vide letter No. J-13012/14/2004-IA.II(T) dated 24th March, 2023 for Expansion of existing 2x300 MW coal based thermal unit by installing new 1x800 MW supercritical unit in an area of 409.242 Ha at Deen Bandhu Chhotu Ram Thermal Power Plant (DCRTPP), Sub- district Jagadhri, District Yamuna Nagar, Haryana by M/s Haryana Power Generation Corporation Limited.
- iii. The PP submitted proposal dated 06/06/2023 for amendment in Terms of Reference. The amendment has been sought with the details as under:

S. No.	Para of ToR issued by MoEF&CC	Details as per the ToR	To be revised/ read as	Justification/ reasons
1.	Clause 3	The project/activity is covered under category A of item 1(c) 'River Valley projects' 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/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.	Proposed Project is for expansion by installing new 1x800 MW ultra-supercritical thermal power unit at existing plant of DCRTPP, HPGCL. ToR application was also made under the item 1(d) 'Thermal Power Plants'.
2.	Clause 6.[A].i. under specific TOR	Commitment for no construction in 45 ha of forest land.	Commitment for no construction in 7.94 ha of forest land.	Total Forest land within the project area is 7.94 ha. NOC from Forest Department obtained. Forest land present is being preserved and protected. No expansion is proposed in the forest land.
3.	Project Name – Subject, Clause 2,5 and 6.	Expansion of existing 2x300 MW coal based thermal unit by installing new 1x800 MW supercritical unit at Deen Bandhu Chhotu Ram Thermal Power Plant (DCRTPP) at Yamuna Nagar, Haryana by M/s Haryana Power Generation Corporation Limited.	Expansion of existing 2x300 MW coal based thermal unit by installing new 1x800 MW ultra-supercritical unit at Deen Bandhu Chhotu Ram Thermal Power Plant (DCRTPP) at Yamuna Nagar, Haryana by M/s Haryana Power Generation Corporation Limited.	Based on the latest technology trends prevailing in the market for 800 MW thermal power projects, it is proposed to take up Ultra Super Critical technology for the proposed 800 MW project.

4.	Layout Map	No new raw water reservoir was proposed. Existing reservoir will be used for the proposed project also. Railway marshalling yard has been proposed.	Certain facilities like new raw water reservoir, new rain water holding pond with liner, new Railway marshalling yard with MGR, new Ammonia storage building are now proposed.	It is envisaged that storage, logistic and layout bottlenecking will be there in existing layout. Therefore, change in layout with new reservoir, rain water holding pond, ammonia storage, railway marshalling yard etc. has been proposed.
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43.2.3 The EAC during deliberations noted the following:

The proposal is for grant of amendment in the Terms of Reference granted by the Ministry vide letter dated 24th March, 2023 for the project Expansion of existing 2x300 MW coal based thermal unit by installing new 1x800 MW supercritical unit in an area of 409.242 Ha at Deen Bandhu Chhotu Ram Thermal Power Plant (DCRTPP), Sub- district Jagadhri, District Yamuna Nagar, Haryana by M/s Haryana Power Generation Corporation 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 EAC noted that MoEF&CC accorded additional and standard ToR vide letter No. J-13012/14/2004-IA.II (T) dated 24th March, 2023 wherein it is mentioned that it shall also be ensured that a minimum of 500 m distance of plant boundary is kept from the HFL of river system/ streams etc. and the boundary of site should also be located 500 m away from railway track and National Highways.

The PP has now proposed new raw water reservoir, new rain water holding pond with liner, new Railway marshalling yard with MGR and new Ammonia storage building which lies on green plantation of 500m from railway line. The EAC noted that the yardstick of keeping the plant boundary 500m away from railway track and National Highways is as per Standard TOR framed by the Ministry for conducting EIA study for thermal power plant, secondly, this piece of land has been converted into good patch of green plants. So, it is not advisable to accommodate the same for construction of thermal power plant components.

43.2.4 *The EAC after detailed deliberation on the information submitted **agreed to** for amendments sought at S. No, 1, 2 and 3 and not recommended S.No. 4 i.e. changes in the layout map as proposed by the PP and suggested to surrender the forest land which are under possession with them to State Forest Department and look for other possibilities for construction of new raw water reservoir, new rain water holding pond with liner, new Ammonia storage building and MGR.*

Agenda Item No. 43.3

1x660 MW (Unit- VI) Super-Critical Technology Bhusawal Coal Based TPP in an area of 115.93 Ha at Village Pimpri-Sekam, Taluk Bhusawal, District Jalgoan, Maharashtra by M/s Maharashtra State Power Generation Co. Ltd. - Extension of Validity Environmental Clearance (EC) – reg.

[Proposal No. IA/MH/THE/432684/2023; F. No. J-13012/75/2010-IA.II (T)]

43.3.1 The proposal is for grant of extension of validity environmental clearance (EC) to 1x660 MW (Unit- VI) Super-Critical Technology Bhusawal Coal Based TPP in an area of 115.93 Ha at Village Pimpri-Sekam, Taluk Bhusawal, District Jalgoan, Maharashtra by M/s Maharashtra State Power Generation Co. Ltd.

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

- i. The Environment clearance was accorded to 1x660 MW Super Critical TPP at Bhusawal vide letter no. J-13012/75/2010-IA.II (T), dated 27.11.2012 which was valid for five years i.e. till 26.11.2017.
- ii. Further, in line EIA Notification 2006, as amended the Ministry issued a notification dated 14.09.2016, through which the said environment clearance was valid for seven years. A letter, J-13012/75/2010-IA.II (T), dated 30.05.2017, in this regard was obtained from ministry. Accordingly, the validity of EC extended till 26.11.2019.
- iii. Due to non-completion of project activities within the said timeline i.e 26.11.2019, further EC validity extension for three years i.e. up to 26.11.2022 was granted by ministry vide letter, J-13012/75/2010-IA.II (T), dated 14.01.2020.
- iv. Also, the amendment in Environment Clearance was obtained vide letter no. J-13012/75/2010-IA.II(T) dated 11.09.2020 regarding change in Coal Source and flue gas exit velocity.
- v. Further, in view of outbreak of Corona Virus (COVID-19) and subsequent lockdowns imposed, Ministry notification S.O. 221 (E), dated 18/01/2021 provided one-year exemption in the validity of EC. In view of the said notification, the validity of Bhusawal Project remains valid till 26.11.2023. A letter dated 10.03.2022 was also submitted to MoEF & CC to appraise the same.
- vi. **Reasons of the delay in implementation:** M/s BHEL (EPC contractor) off-loaded works from non-performing contractors for Natural Draft Cooling Tower (NDCT) civil work, Coal Handling Plant (CHP) civil work, Flue Gas Desulphurization (FGD) civil work and Ash Handling Plant (AHP) package civil work and awarded the contracts to the new contractors.

However, it has delayed the civil works of CHP, AHP and FGD package. Also the areas where delay occurred are given below:

- a. Slow progress of Civil works of CHP package - Slow progress of Work of CHP MCC-3 could prove major bottleneck for CHP commissioning, Construction of cable rack for extending the supply to CHP MCC is also in critical path. All the balance work of CHP is expected to finish by Feb-2024.

- b. Slow progress of Ash Disposal Pipe Lines (ADPL) - Pedestals of approximately 07 Km, AHP MCC-2 could be major bottleneck for coal firing and trial operation. In spite of constant follow-up from this office, work of pedestals in railway culvert and high way culvert is not taken up by M/s BHEL. This is major bottleneck in AHP works. The works of pushing ADPL under railway line is undertaken by MSPGCL is at approval stage and work is yet to start. All the works in ADPL are expected to finish by Feb-2024.
- c. Flue Gas Desulphurization (FGD) – Erection work in absorber, ducts, ducts support structure, RC PH, various tanks, FGD Control room etc under progress. Installation of FGD is statutory requirement for consent to operate. The progress of civil works is very slow and most of the fronts are still not handed over for mechanical and electrical erection agency. The civil works of M/s BJCL scope are awarded to M/s PMPL. However, work progress is slow and fronts such as lime stone crusher & Gypsum dewatering building is standstill and these works are to be started on top priority. Expected date of completion of work is June 2024.
- d. Selective Catalytic Reduction System - SCR is being erected first time in India by M/s BHEL for this Project and there is enormous delay in engineering, supply and erection of SCR. The erection work got delayed due lack of erection methodology being first time erection by BHEL. Even after mobilization of 600 MT crane in August 2022, there is hardly any progress in SCR works. Now M/s BHEL decided to carry out erection of SCR from RHS of Boiler and it will be holdup for erection of galleries between Coal conveyer TP-4 and RHS of Coal Mill Bunkers. RHS being lower mills will be required for trial operation. It is a major bottleneck for trial operation of the unit. The work is expected to finish by Jan-2024.
- e. ETP & STP area- The work of ETP & STP is in progress which is critical in view of upcoming milestone such as commissioning of DM plant, Steam blowing, Coal firing and full load and the other milestone activities especially COD of the unit. The work is expected to finish by March-2024.
- f. Railway siding and Signal & Telecommunication (S&T) works - By observing quantum of work remaining in the railway siding, it can prove major bottleneck for readiness of CHP for trial operations. The works of S&T is under approval stage (MAHAGENCO scope) and yet to start. Considering cycle time required for the work it is expected to finish by Feb-2024.
- g. Delay in supply of material due to Covid-19 and steep rise in prices of the material - Borosilicate & its adhesive material is required for completion of chimney works is delayed due to outbreak of recent Covid in China. Further delayed due to steep rise in prices of copper and steel. M/s BHEL have to either renegotiate or reorder some material such as transformers, piping material, cables etc. which ultimately delayed the project works.

vii. **Progress of implementation of the project (Physical progress) is as under:**

Sr. No.	Packages	Present Status	% Completion	Completed/ Anticipated Date
1	Boiler- Civil works	Completed	85.66%	15/11/2019

2	Boiler- Structural works	Work in progress		15/08/2023
3	Boiler- Pressure parts completion	Work in progress		15/08/2023
4	TG- Civil works	Completed		11/01/2021
5	TG-Structural works	Work in progress	90.56%	15/07/2023
6	TG- Pressure parts completion (Boiler feed line piping)	Work in progress		15/08/2023
7	ESP	Work in progress		97.28%
8	FGD-Civil works	Work in progress	34%	31/12/2023
9	FGD- Material supply	Work in progress		15/09/2023
10	FGD- Erection work	Work in progress		30/06/2024
11	Chimney	Work in progress	99%	10/09/2023
12	Coal Handling Plant	Work in progress	58.3%	28/02/2024
13	Ash Handling Plant	Work in progress	60%	28/02/2024
14	SCR	Work in progress	28%	31/01/2024
15	ETP & STP	Work in progress	25%	31/03/2024
16	Fuel Oil System	Completed	100%	30/03/2023
17	Cooling Towers	Work in progress	93%	15/07/2023
18	CW Pump house	Work in progress	95%	15/07/2023
19	CW Piping	Work in progress		15/07/2023
20	PT Plant	Work in progress	54%	15/08/2023
21	DM Plant	Work in progress	97%	15/07/2023
22	Air Compressor	Completed	100%	30/04/2023
23	Fire Protection Pump House	Work in progress	91%	30/06/2023
24	Fire Protection piping	Work in progress	25%	15/07/2023
25	Switch yard	Completed	100%	25/01/2023
26	Station Transformer	Work in progress	65%	25/07/2023
27	Unit Transformer	Work in progress		25/08/2023
28	Railway siding including S&T	Work in progress	73%	28/02/2024
29	Power Evacuation	Completed	100%	15/06/2023

43.3.3 The EAC during deliberations noted the following:

The proposal is for grant of Extension of Validity Environmental Clearance (EC) to 1x660 MW (Unit- VI) Super-Critical Technology Bhusawal Coal Based TPP in an area of 115.93 Ha at Village Pimpri-Sekam, Taluk Bhusawal, District Jalgoan, Maharashtra by M/s Maharashtra

State Power Generation Co. Ltd.

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.

Earlier, Environment Clearance was accorded to 1x660 MW Super Critical TPP at Bhusawal vide letter no. J-13012/75/2010-IA.II (T), dated 27.11.2012 followed by amendment in EC vide letter dated 30.05.2017 and 14.01.2020.

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.

The EAC noted that as per extent rules and regulations the Environmental Clearance dated 27.11.2012 is valid till 26.11.2023. The EAC also observed that EMP activities w.r.t. green belt development have not been started yet. It is mandatory for the proponent to fulfill their environmental obligations and take immediate steps to rectify the situation in the upcoming monsoon season.

43.3.4 *The EAC after detailed deliberation on the information submitted recommended the proposal for Extension of Validity Environmental Clearance (EC) dated 27.11.2012 for one more i.e. till 26.11.2024 to 1x660 MW (Unit- VI) Super-Critical Technology Bhusawal Coal Based TPP in an area of 115.93 Ha at Village Pimpri-Sekam, Taluk Bhusawal, District Jalgoan, Maharashtra by M/s Maharashtra State Power Generation Co. Ltd., under the provisions of EIA Notification, 2006 and as amended along with the following additional conditions:*

- i. Action plan for green plantation shall be prepared. A dedicated team under supervision of project head shall work for developing green belt as per CPCB guidelines or as recommended in the EC letter. Green plantation shall be carried out before the month of October, 2023 around the plant boundary. Action plan and its implementation shall be certified by IRO, Nagpur in the month of October.
- ii. All the conditions mentioned in the EC dated read with amendment dated 11.09.2020 shall remain unchanged.

Agenda Item No. 43.4

Gas based captive power plant with installed steam & power capacity of 880 TPH & 195 MW at Village Ambhetha, Taluka Vagra, District Bharuch, Gujarat by M/s. ONGC Petro additions Limited - Amendment in Environmental Clearance – reg.

[Proposal No. IA/GJ/THE/431339/2023; F. No. 21-1084/2007-IA.III]

43.4.1 The proposal is for grant of amendment in Environmental Clearance to Gas based captive power plant with installed steam & power capacity of 880 TPH & 195 MW at Village Ambhetha, Taluka Vagra, District Bharuch, Gujarat by M/s. ONGC Petro additions Limited.

43.4.2 The details of the project submitted by project proponent and ascertained from the document submitted, it was found that Environmental Clearance was accorded by the Industry sector of this Ministry. The EAC suggested the PP to apply in Industry sector so that a comprehensive view may be taken on the proposal.

The EAC therefore decided to *return the proposal* in present form.

Agenda Item No. 43.5

2x500 MW Tuticorin Thermal Power Project in an area of 135 ha at District Thoothukkudi, Tamil Nadu of M/s NLC Tamilnadu Power Limited - Amendment in Environmental Clearance – reg.

[Proposal No. IA/TN/THE/431783/2023; F. No. J-13012/68/2006-IA-II (T)]

43.5.1: The proposal is for amendment in Environmental Clearance granted by the Ministry vide letter dated 13.06.2007 for 2x500 MW Tuticorin Thermal Power Project in an area of 135 ha at District Thoothukkudi, Tamil Nadu in favour of M/s Neyveli Lignite Corporation Limited.

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

- i. The Ministry of Environment, Forests and Climate Change (MoEF&CC) erstwhile MoEF accorded Environment Clearance (EC) for 2X500MW Tuticorin Thermal Power Project, District Tuticorin, Tamilnadu, NLC Tamilnadu Power Limited vide letter no. J-13012/68/2006-IA.II(T) dated 13.06.2007 and subsequent extension vide letter dated 11.01.2013.
- ii. The MoEF&CC stipulated the Capital & Recurring Annual Expenditure towards CSR activities as 0.4% of the capital cost of the project and 0.08% of the capital cost of the project respectively. Accordingly, the EC extension letter dated 11.01.2013 included additional condition no. (xxxiv) towards CSR activities as follows:

“An amount of Rs. 19.63 Crores shall be earmarked as one-time capital cost for CSR programme. Subsequently a recurring expenditure of Rs. 3.93 Crores per annum till the life of the plant shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted to the Regional Office of the Ministry along with road map for implementation”.

Request:

- iii. The project proponent submitted the proposal on 10/06/2023 requesting for deleting the condition no. (xxxiv) of EC extension letter dated 11.01.2013.

Justification:

- iv. Comprehensive guidelines on CER was later issued by MoEF&CC vide OM dated 01.05.2018 which supersedes the above stipulations made in respect of CSR in subsequent ECs including that of NTPL.

- v. CSR expenditure is subject to Governmental and Ministerial guidelines. NTPL follows CSR provisions of Companies Act 2013 for taking up CSR activities and it is taken up as per the request received from the District Authorities so that the local necessities are met. NTPL is committed to inclusive growth and sustainable development with special focus on the neighborhood communities.
- vi. The CSR activities to be undertaken by an industry is under the domain of Ministry of Corporate Affairs under the Companies Act, 2013. The stipulation of conditions pertaining to CSR by MOEF&CC will create ambiguity in multiple reporting and duplication.
- vii. M/s NTPL has achieved commercial operation of 2X500 MW units in 2015.
- viii. NTPL identified & carried out various CSR projects/ activities in association with the Office of the District Collector in the following thrust areas as mentioned below:
- Infrastructural development projects like construction of roads
 - Welfare projects like desilting of lakes
 - Marine life conservation projects in the Gulf of Mannar Marine Biosphere area,
 - Drinking water, sanitation, health/medical facilities
 - Education & skill development etc.
 - Art, Culture and Sports
 - Environmental Protection and Community Development
- ix. Expenditure incurred/earmarked towards CSR activities for NTPL (2x500) MW amounts to a total value of Rs. 30.91 Crores till FY 2022-23.

43.5.3: The EAC during deliberations noted the following:

The proposal is for amendment in Environmental Clearance granted by the Ministry vide letter dated 13.06.2007 for 2x500 MW Tuticorin Thermal Power Project in an area of 135 ha at District Thoothukkudi, Tamil Nadu in favour of M/s Neyveli Lignite Corporation Limited.

Earlier, the Ministry of Environment, Forests and Climate Change (MoEF&CC) erstwhile MoEF accorded Environment Clearance (EC) for 2X500MW Tuticorin Thermal Power Project, District Tuticorin, Tamilnadu, NLC Tamilnadu Power Limited vide letter no. J-13012/68/2006/IA.II(T) dated 13.06.2007 and subsequent extension vide letter dated 11.01.2013.

The EAC opined that PP shall prepare a chart after compiling all the issues raised and commitments made by the PP during the public hearing along with implementation status, expenditure (including recurring cost) and additional activities carried out by the PP. All the details desired by the EAC shall be examined and certified by the IRO, MoEF&CC.

The proposal was *deferred* on the above lines.

The meeting ended with vote of thanks to the Chair.

Annexure

ATTENDANCE

**43rd MEETING OF RE-CONSTITUTED EXPERT APPRAISAL COMMITTEE (EAC)
THERMAL POWER PROJECTS**

DATE : 19.06.2023
TIME : 10:30 am onwards
VENUE : Indus Hall, Vayu Block, Indira Paryavaran Bhawan, New Delhi.

Sl.No.	Name of Member	Role	Signature
1.	Shri Gururaj P. Kundargi	Chairman	<i>Gururaj P. Kundargi</i> 19/6/23
2.	Shri Suramya Dolarray Vora	Member	<i>S. D. Vora</i>
3.	Dr. Narmada Prasad Shukla	Member	- Ab -
4.	Dr. Santoshkumar Hampannavar	Member	<i>Santoshkumar Hampannavar</i> 19/06/23
5.	Dr. Umesh Jagannathrao Kahalekar	Member	<i>Umesh Jagannathrao Kahalekar</i>
6.	Shri K. B. Biswas	Member	<i>K. B. Biswas</i> 19/6/23
7.	Dr. Nandini.N	Member	<i>Nandini.N</i> 19/6/23
8.	Dr. Unmesh Patnaik	Member	- Ab -
9.	Dr. Nazimuddin	Member (Official) Representative of Central Pollution Control Board, New Delhi	Attended through VC
10.	Sh. Mahi Pal Singh	Member (Official) Representative of Central Electricity Authority (CEA)	<i>Mahi Pal Singh</i> 19/6/2023
11.	Prof R.K. Giri	Member (Official) Representative of Director General Indian Meteorological Department (IMD), New Delhi	- Ab -
12.	Professor Sheo Shankar Rai	Member (Official) Representative of Indian School of Mines Dhanbad (ISM Dhanbad)	- Ab -
13.	Shri Yogendra Pal Singh	Member Secretary	<i>Yogendra Pal Singh</i>

APPROVAL OF THE CHAIRMAN

From: gpkundargi@gmail.com

To: "Yogendra Pal Singh" <yogendra78@nic.in>

Sent: Monday, July 10, 2023 10:41:13 AM

Subject: Re: Draft Minutes of the 43rd EAC (Thermal) meeting held on 19.06.2023-reg.

Dear Dr Yogendra ji

Draft Minutes are fine with me & Approved for further needful action.

Thank you

G P Kundargi