



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



Minutes of AGENDA FOR 34TH MEETING OF THE EXPERT APPRAISAL COMMITTEE (EAC) (THERMAL POWER PROJECTS) TO BE HELD ON 9TH DECEMBER, 2025 DURING 10:30 - 17.00 HRS THROUGH VIRTUAL MODE. meeting Thermal Projects held from 09/12/2025 to 09/12/2025

MoM ID: EC/MOM/EAC/112842/11/2025

Agenda ID: EC/AGENDA/EAC/112842/11/2025

Meeting Venue: N/A

Meeting Mode: Virtual

Date & Time:

09/12/2025	10:30 AM	05:30 PM
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1. Opening remarks

9th December, 2025 [Tuesday]

At the outset, Shri. Inder Pal Singh Matharu (I.F.S Retd.), Chairman, Expert Appraisal Committee (Thermal Power & Coal Mining) welcomed the Expert members & other participants and requested to start the proceeding as per the agenda listed for this meeting. The list of EAC members who participated in the meeting is at **Annexure - I**.
[The main PDF of MoM is enclosed at Page no. 51 - 94]

2. Confirmation of the minutes of previous meeting

Confirmation of the Minutes of the 33rd Meeting of the EAC (Thermal): The minutes of the 33rd Meeting of the EAC (Thermal) held on 19th November, 2025 has been confirmed by the EAC as uploaded on PARIVESH.

3. Details of proposals considered by the committee

Day 1 -09/12/2025

3.1. Agenda Item No 1:

3.1.1. Details of the proposal

2x800 MW (Expansion, Stage-II) Coal Based Lara Super Thermal Power Project at villages Armuda, Chhapora, Bodajharia, Devalpura, Mahloi, Riyapalli, Lara, Jhilgitar and Kandagarh, in Taluk Pussore, in District Raigarh, in Chhattisgarh by M/s NTPC Ltd by NTPC LIMITED located at RAIGARH, CHHATTISGARH			
Proposal For		Amendment in EC	
Proposal No	File No	Submission Date	Activity Sub-Activity (Schedule Item)
IA/CG/THE/556965/2025	J-13012/11/2018-IA.I (T)	19/11/2025	Thermal Power Plants Coal/Lignite based plants (1(d))

3.1.2. Project Salient Features

Agenda No 34.1

34.1: 2x800 MW (Expansion, Stage-II) Coal Based Lara Super Thermal Power Project by **M/s NTPC Ltd.**, located at villages Armuda, Chhapora, Bodajharia, Mahloi, Riyapalli, Kandagarh, Jhilgitar, Devalpura, Ghutkupali, Thengapali, Lara in Tehsil Pussore, District Raigarh and Village Saradih in Tehsil Dabhara, District Sakti, Chhattisgarh - **Amendment in Environmental Clearance (EC) - regarding.**

[Proposal No: IA/CG/THE/556965/2025; F. No. J-13012/11/2018-IA.I (T)]

34.1.1: M/s. NTPC Limited has made an online application vide proposal no. **IA/CG/THE/556965/2025** dated **11.11.2025** along with Form-4 and sought for amendment in Environmental Clearance (EC) accorded by the Ministry vide File No: J-13012/11/2018-IA.I (T) dated 17.07.2023 under the provisions of the EIA notification, 2006 for the project mentioned above.

Details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meeting, are given as under:

34.1.2: The existing project of “2x800 MW (Expansion, Stage-II) Coal Based Lara Super Thermal Power Project at villages Armuda, Chhapora, Bodajharia, Mahloi, Riyapalli, Kandagarh, Jhilgitar, Devalpura, Ghutkupali, Thengapali, Lara in Tehsil Pussore, District Raigarh and Village Saradih in Tehsil Dabhara, District Sakti, Chhattisgarh” was granted Environment Clearance from the Ministry vide File No: J-13012/11/2018-IA.I (T) dated 17.07.2023 for construction and operation of the above said project. Consent to Establish for Lara STPP Stage-II was accorded by Chhattisgarh Environment Conservation Board, Raipur, (C.G.) vide No 3168/TS/CECB/2024 dated 12.07.2024. The validity of CTE is up to 11.07.2029.

34.1.3: The implementation status of the existing EC is as follows: Lara Stage-II Project is under construction

Sr. No.	As per EC dated 17.07.2023	As per CTE dated 12.07.2024	
1	2X800 MW		Under construction

34.1.4: Compliance status to the Lara Stage-II (2x800MW) EC conditions (dated 17.07.2023):

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
General Instructions:			
1	7	The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.	Being complied.
2	8	The Project Proponent is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.	Being complied.
3	10(a)	The project proponent shall prominently advertise it in at least two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.	Complied. Kelo Pravah: 21.07.2023 Times of India: 21.07.2023 Dainik Bhaskar: 21.07.2023 Copy submitted
4	10(b)	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Complied
5	10(c)	The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions.	Complied
6	10(d)	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during Operational phase) shall be prepared. The year wise funds earmarked for environment	Detailed document submitted to IRO, MoEF&CC, Raipur.

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
		ntal protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.	
7	10(e)	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted for compliance.
8	10(f)	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Noted for compliance.
9	10(g)	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.
Special EC Conditions:			
	1. Miscellaneous		
10	1.1 (xxxi)	Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	Complied. An application for Consent to Establish was submitted to Chhattisgarh Environment Conservation Board, Raipur on 25.09.2023 & Consent to Establish has been granted to NTPC Lara stage-II on 12.07.2024, CTE (consent To Establishment) No. 3168/TS/CECB/2024
11	1.1 (xxxii)	All necessary clearance from the concerned Authority, as may be applicable should be obtained prior to commencement of project or activity.	Complied, CTE received.
	2. Socio-economic		
12	2.1 (xxiv)	Public grievance redressal system shall be established under supervision of project head	Complied; Copy of Public grievance redressal system record register att

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
		d. The functioning of the system shall be reviewed every month.	ached as Annexure-VI.
13	2.1 (xxv)	A vision document comprising prospective plan for implementation of various CER activities, plantation programme outside the project cover area, rejuvenation and conservation of water bodies within 5 km radius of the project cover area, creation of sacred groves etc. shall be prepared and submitted to the Regional Office of the Ministry within 6 months. Implementation status of the same shall be reported to the regional office in 6 monthly compliance report.	Vision document submitted to IRO, MoEF&CC, Raipur.
14	2.1 (xxvi)	Epidemiological Study among population within 5 km radius of project cover area shall be carried out on regular interval (Once in two year) through independent agency. Necessary measures shall be taken as per findings of study in consultation with district administration. Action taken report shall be submitted to the Regional Office of the Ministry.	Shall be complied. The process of tendering has started.
15	2.1 (xxvii)	The Project Proponent shall submit the time-bound action plan to the concerned regional office of the Ministry within 6 months from the date of issuance of Environmental Clearance for undertaking the CER activities, committed during public consultation by the project proponent and as discussed by the EAC, in terms of the provisions of the MoEF&CC Office Memorandum No.22-65/2017-IA.III dated 30 September 2020. The action plan shall be implemented within three years of commencement of the project.	Detailed document submitted to IRO, MoEF&CC, Raipur.
16	2.1 (xxviii)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Being complied.
17	2.1 (xxix)	As committed, a multi-specialty Hospital with 100 beds shall be established to cater the need of population living within 10 km.	Budget was allocated & budget approved for multi-specialty hospital with 100 beds. Agreement was signed and an advance of Rs. 20.01 Crore was transferred for the same. NTPC Lara has consistently extended financial support for strengthening healthcare facilities in the region. 1. An amount of ₹50 Crores has been

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
			<p>n provided to Raigarh Medical College for the upgradation of infrastructure and installation of latest medical equipment, thereby ensuring modern facilities, improved amenities, and enhanced medical capacity for the local population.</p> <p>2. In addition, NTPC Lara has extended a grant of ₹35.53 Crores to Akhil Bharatiya Vanvasi Kalyan Ashram Hospital, Jashpur for expansion and enhancement of healthcare services in tribal and rural areas. These contributions highlight NTPC Lara's commitment towards improving healthcare access and quality, while reinforcing its role as a reliable partner in regional development and welfare.</p> <p>3. Memorandum of Agreement (MoA) was signed between District Administration, Raigarh & M/s NTPC Lara for the establishment of the 100 bedded Multi specialty hospital in tehsil Pussore, Raigarh District (CG) but was cancelled by the district administration.</p> <p>4. District Administration (CSR Branch), Raigarh, Chhattisgarh has given a letter to NTPC Lara (Letter No. GENS/2799/2025-COLLRGH CSR SEC/191, dated. 08.09.2025) & it has asked NTPC Lara to provide Rs. 29.99 Crore for "Kelo River Conservation & Rejuvenation Project". NTPC Lara has already provided 20.01 Crore for 100 bed hospital, which shall be adjusted to Kelo River Conservation & Rejuvenation as per the letter received from District Administration & the remaining amount, which is Rs. 9.98 Crore has been asked to provide.</p>
18	2.1 (xxx)	The establishment of a robust grievance redressal mechanism to address concerns and complaints from local communities regarding the power plant's operations, environmental impacts, or social issues shall be developed. A Senior Officer shall review the functi	Being complied; system in place as well.

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
		oning	
3. Environmental Management			
19	3.1(i)	As already committed by the project proponent, Zero Liquid Discharge shall be ensured, and no waste/treated water shall be discharged outside the premises.	It is already incorporated as an inherent feature at design level itself. Same shall be complied.
20	3.1(ii)	Peripheral Green belt (Three row plantation) with Miyawaki plantation technique of 15 m thickness along the plant boundary shall be developed with more than 90% survival rate of the plant species. It would be ensured that total 33% area of total project cover area is under green cover focusing on Ash Dyke area.	Plant erection activities are in progress. Same shall be complied after completion of same to avoid casualty of plantation.
21	3.1(iii)	Extensive green cover within 2 km range of the plant boundary shall be developed. An action plan in this regard to be prepared in consultation with CPCB/expert institution and submitted before the Regional Office of the Ministry within 3 months.	DFO Raigarh has been requested for land/ degraded forest availability. (Letter Date: 21.10.2023) NTPC Lara has planted 50,000 trees in this monsoon season (FY 2025-26). Station is hunting for nearest area possible for plantation. Contract with CGRVNL (Chhattisgarh Rajya Van Vikas Nigam Limited (A State Public sector unit having expertise in the field of plantation in the state of Chhattisgarh) is in place for plantation.
22	3.1(iv)	24X7 online monitoring system for ambient air quality shall be established with its connectivity with SPCB and CPCB server. Stack monitoring shall be done through 24X7 online monitoring system. The emission Standards for Municipal Solid Waste based Thermal Power Plants as per Municipal Solid Waste Rules, 2016 dated 8.4.2016 (S.O. 1357 (E)) shall be complied (Refer Part C of Schedule II of Municipal Solid Waste Rules, 2016 dated 8.4.2016 (S.O. 1357 (E))).	In Compliance. AAQMS data is submitted. For Stack Monitoring, shall be complied during operational Phase. Not Applicable Proposed Lara stage-II is coal-based Thermal Power Plant and shall not use Municipal Solid Waste.
23	3.1(v)	Adequate dust extraction system such as cyclones/bag filters and water spray system in dusty areas such as waste delivery points, transfer areas and other vulnerable dusty areas shall be provided along with an environment friendly sludge disposal system.	Incorporated in design & same shall be complied during operational phase. Being complied; copy of Logbook submitted.

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
		Water Sprinkling on roads shall be done in every 6 hours in winter season and 3 hours in summer season of roads within 1 km range approaching the plant. A logbook shall be maintained for the activity and be in six-monthly compliance report.	
24	3.1(vi)	LED display of air quality (Continuous Online monitoring) shall be installed on the roadside (within 1 km range) and nearby hotspots viz. residential colony, Schools Hospitals; maintenance of devices shall be done on regular basis.	Presently data is being displayed on the main gate of the Plant & lobby of the administrative building. Proposal for three additional display board is in advance stage of tendering & the same shall be installed at three more location accessible to local public.
25	3.1(vii)	Everyday cleaning of road/Paved roads within 1 km range of plant site shall be ensured throughout the year through vacuum-based vehicle.	Complied. Work awarded. Vehicle shall be deployed by first week of December 2025. Manual cleaning by deploying labour is in progress.
26	3.1(viii)	Environment Audit of plant shall be done annually, and report shall be submitted to regional office of the Ministry.	Shall be complied during the operation phase of the plant.
27	3.1(ix)	Project proponent shall explore the use of treated sewage water from the Sewage Treatment Plant of Municipality / local bodies/ similar organization located within 50km radius of the proposed power project to minimize the water drawl from surface water bodies.	Noted for compliance. As per the guidelines laid down in para 6.4 & 6.6 of the Office Memorandum dated 21 st September 2020, Ministry of Power, Treated Sewage Water from the STP of Municipality/ local bodies Use of treated water from Raigarh STPs may not possible due to the following reasons: (A) Raigarh STP (Existing - 7 MLD capacity) • The STP and NTPC Lara are located on opposite banks of River Kelo, posing a significant logistical constraint. • The production capacity of the STP is less than 30% of NTPC Lara's cooling water requirement. (B) Raigarh STP (Existing — 25 MLD capacity) From an environmental and water conservation perspective, it would be prudent that treated sewage water f

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			rom this STP be utilized by the nearest thermal power plants (TPPs), thereby minimizing capital expenditure on pipeline length and reducing the lifetime carbon footprint of pumping operations. NTPC Lara is not in the priority zone as per vicinity; several other TPPs are located much closer to the STP.
28	3.1(x)	A detailed action plan regarding leachate handling shall be prepared and implemented in consultation with SPCB and the same shall be submitted to the Regional Office of the Ministry. Zero liquid discharge shall be adopted. Leachate shall be treated and reused. No treated leachate shall be discharged in any circumstances. Characteristics of Leachate and the treated Leachate shall be monitored once in quarter and records shall be maintained.	Shall be complied during the operation phase of the plant.
29	3.1(xi)	Oil and grease recovered from the treatment plant should be disposed only through authorized recyclers.	Shall be complied during operational phase.
30	3.1(xii)	Harnessing solar power within the premises of the plant particularly at available roof tops shall be carried out and status of implementation including actual generation of solar power shall be submitted along with half yearly monitoring report.	Included in the EPC package for feasibility & execution, awarded to M/s BHEL & same shall be executed after construction of all buildings of stage-II area. Actual generation shall be submitted after installation of the same. 440 kW of roof top solar in Township commissioned & operational. Additional capacity of 340 kW roof solar and 1100 kW on ground is awarded.
31	3.1(xiii)	Fly ash handling shall be done strictly as per extant rules/regulations of the Ministry/CP CB issued from time to time including Ministry's Notification No. S.O.5481(E) dated 31st December,2021. No coal shall be transported through road shall be allowed.	Shall be complied during the operation phase of the plant.
32	3.1(xiv)	Monitoring of surface water quality and Ground Water quality shall also be regularly conducted, and records maintained. The monitored data shall be submitted to the Ministry regularly.	Being monitored;

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
		Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall also be undertaken and results/findings submitted along with half yearly monitoring report.	
33	3.1(xv)	A well-designed rainwater harvesting system shall be put in place within six months, which shall comprise of rainwater collection from the built up and open area in the plant premises and detailed record kept of the quantity of water harvested every year and its use.	Design and construction included in the main package and same shall be implemented after completion of construction activities. Details for record and quantity of water harvested every year along with its use shall be submitted after implementation.
34	3.1(xvi)	No water bodies including natural drainage system in the area shall be disturbed due to activities associated with the setting up/ operation of the power plant. A list of all small and large water bodies shall be prepared after physical survey within 10 km radius of the project. A detailed conservation plan for all these water bodies shall be prepared and submitted before the Regional Office of the Ministry within 3 months. Implementation status of conservation plan be submitted in 6 monthly compliance report.	A Purchase Order (PO) (PO No. 550 0045236) dated 09.03.2024 has been awarded by NTPC Lara to Guru Ghasidas Vishwavidyalaya, Bilaspur. The study work is under progress.
35	3.1(xvii)	Watershed development plan shall be prepared and implemented focusing on micro watershed development within 10 km radius of the project. Action taken report in this regard be submitted before regional office of the Ministry in 6 monthly compliance report.	Shall be complied. Water Resource Department, Raigarh, Chhattisgarh state government has been requested vide letter dated. 08.12.2023 for possibility & estimate for the same. Water Resource Department, Raigarh, Chhattisgarh state government has requested vide letter dated. 09.06.2025 for 6.1031 Crore for the water conservation structures in 9 villages of Pussore Development Block. (Copy submitted)
36	3.1(xviii)	A detailed ecological monitoring and survey covering forestry, fisheries, wildlife and its habitat shall be done once in two years to assess the impacts of project on the local environment and ecology. Monitoring report shall be uploaded on the PARIVESH Portal and	A Purchase Order (PO) (PO No. 550 0045236) dated 09.03.2024 has been awarded by NTPC Lara to Guru Ghasidas Vishwavidyalaya, Bilaspur for the monitoring & survey covering forestry, fisheries, wildlife & its habitat

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
		d a copy of the same be submitted to the regional office of MoEF&CC.	at. The study work is under progress. The report shall be uploaded on the PARIVESH portal on completion of the study done by Guru Ghasidas Vishwavidyalaya, Bilaspur.
37	3.1(xix)	For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	Complied for DG deployed for construction activities. Shall be complied in all DG sets at the time of installation of Main plant & ancillary activities.
38	3.1(xx)	An Environmental Cell headed by the Environment Manager with postgraduate qualification in environmental science/environmental engineering, shall be created. It shall be ensured that the Head of the Cell shall directly report to the Head of the Plant who would be accountable for implementation of environmental regulations and social impact improvement/mitigation measures.	In Compliance.
39	3.1(xxi)	The unit shall make the arrangement for protection of possible fire hazards during the manufacturing process in material handling. The firefighting system shall be as per the norms.	Being complied.
40	3.1(xxii)	The energy sources for lighting purposes shall preferably be LED based.	Being complied.
41	3.1(xxiii)	Explore desulphurization from biotechnological method.	Shall be complied.
Standard EC Conditions			
	1. Statutory compliance		
42	1.1	Emission Standards for Thermal Power Plants as per Ministry's Notification S.O. 3305(E) dated 7.12.2015, G.S.R.593(E) dated 28.6.2018 and as amended from time to time shall be complied.	Incorporated in EPC package. Same shall be complied.
43	1.2	Part C of Schedule II of Municipal Solid Wastes Rules, 2016 dated 08.04.2016 as amended from time to time shall be complied for power plants based on Municipal Solid Waste.	Lara stage-II (under erection) is a coal-based Thermal Power Plant and shall not use Municipal Solid Waste.

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
44	1.3	MoEF&CC Notification G.S.R 02(E) dated 2.1.2014 as amended from time to time regarding use of raw or blended or beneficiated/ washed coal with ash content not exceeding 34% shall be complied with, as applicable.	Shall be complied during the operation phase of the plant.
45	1.4	MoEF&CC Notifications on Fly Ash Utilization S.O. 763(E) dated 14.09.1999, S.O. 979(E) dated 27.08.2003, S.O. 2804(E) dated 3.11.2009, S.O. 254(E) dated 25.01.2016 as amended from time to time shall be complied.	Shall be complied during the operation phase of the plant.
46	1.5	Thermal Power Plants other than the power plants located on coast and using sea water for cooling purposes, shall achieve specific water consumption of 2.5 m ³ /MWh and Zero effluent discharge.	MoEF&CC notification dated 07.12.2015 and its amendment dated 28.06.2018 envisages a limit of 3.0 m ³ /MWh.
47	1.6	The recommendation from the Standing Committee of NBWL under the Wildlife (Protection) Act, 1972 should be obtained, if applicable.	Not applicable.
48	1.7	No Objection Certificate from Ministry of Civil Aviation be obtained for installation of requisite chimney height and its siting criteria for height clearance.	In Compliance. No Objection Certificate obtained vide ref no. RAIG/EAST/B/040622/664574 dated 17.05.2022. from Ministry of Civil Aviation for installation of requisite chimney height. Copy submitted.
49	1.8	Groundwater shall not be drawn during construction of the project. In case, groundwater is drawn during construction, necessary permission be obtained from CGWA.	Complied. No ground water is being drawn for any purpose.
2. Ash content/mode of transportation of coal			
50	2.1	EC is given on the basis of assumption of ____% of ash content and ____km distance of transportation in rail/road/conveyor/any other mode. Any increase of % ash content by more than 1 percent, and/or any change in transportation mode or increase in the transport distance (except for rail) require application for modifications of EC conditions after conducting the 'incremental impact assessment' and proposal for mitigation measures.	Shall be complied.

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
3. Air quality monitoring and Management			
51	3.1	Flue Gas Desulphurization System shall be installed based on Lime/Ammonia dosing to capture Sulphur in the flue gases to meet the SO ₂ emissions standard of 100 mg/Nm ³ .	NTPC Lara is under 'Category-C' as per the MoEF&CC Notification vide, dated. 31.03.2021 and its amendment thereof; further SO ₂ emission limit from Thermal Power Plant (TPPs) under Category-C is exempted as per MoEF&CC notification vide, dated. 11.07.2025.
52	3.2	Selective Catalytic Reduction (SCR) system or the Selective Non-Catalytic Reduction (SNCR) system or Low NO _x Burners with Over Fired Air (OFA) system shall be installed to achieve NO _x emission standard of 100 mg/Nm ³ .	Shall be complied during operational phase.
53	3.3	High efficiency Electrostatic Precipitators (ESPs) shall be installed in each unit to ensure that particulate matter (PM) emission to meet the stipulated standards of 30 mg/Nm ³ .	Shall be complied during operational phase.
54	3.4	Stacks of prescribed height _____m shall be provided with continuous online monitoring instruments for SO _x , NO _x and Particulate Matter as per extant rules.	Shall be complied during operational phase.
55	3.5	Exit velocity of flue gases shall not be less than 20-25 m/s. Mercury emissions from stack shall also be monitored periodically.	Shall be complied during operational phase.
56	3.6	Continuous Ambient Air Quality monitoring system shall be set up to monitor common/criteria pollutants from the flue gases such as PM ₁₀ , PM _{2.5} , SO ₂ , NO _x within the plant area at least at one location. The monitoring of other locations (at least three locations outside the plant area covering upwind and downwind directions at an angle of 120° each) shall be carried out manually.	Continuous Ambient Air Quality monitoring system has been installed within the plant premises.
57	3.7	Adequate dust extraction/suppression system shall be installed in coal handling, ash handling areas and material transfer points to control fugitive emissions.	Already incorporated in engineering & work awarded to M/s BHEL for the execution of the same. Shall be complied at the time of operation of the facilities.
58	3.8	Appropriate Air Pollution Control measures (DEs/DSs) be provided at all the dust gener	Already incorporated in engineering & work awarded to M/s BHEL for th

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
		ating sources including sufficient water sprinkling arrangements at various locations viz., roads, excavation sites, crusher plants, transfer points, loading and unloading areas, etc.	e execution of the same. Shall be complied at the time of operation of the facilities.
		4. Noise Pollution and its control measures	
59	4.1	The Ambient Noise levels shall meet the standards prescribed as per the Noise Pollution (Regulation and Control) Rules, 2000.	Shall be complied.
60	4.2	Persons exposed to high noise generating equipment shall use Personal Protective Equipment (PPE) like earplugs/earmuffs, etc.	Shall be complied.
61	4.3	Periodical medical examination on hearing loss shall be carried out for all the workers and maintain audiometric record and for treatment of any hearing loss including rotating to non-noisy/less noisy areas.	Being complied during construction phase. Noted for compliance during operational phase.
	5. Human Health Environment		
62	5.1	Bi-annual Health check-up of all the workers is to be conducted. The study shall take into account of chronic exposure to noise which may lead to adverse effects like increase in heart rate and blood pressure, hypertension and peripheral vasoconstriction and thus increased peripheral vascular resistance. Similarly, the study shall also assess the health impacts due to air polluting agents.	Annual Health check-up for all the workers is mandatory and the same is being ensured during construction phase as well.
63	5.2	Baseline health status within study area shall be assessed and report be prepared. Mitigation measures should be taken to address the endemic diseases.	Being complied.
64	5.3	Impact of operation of power plant on agricultural crops, large water bodies (as applicable) once in two years by engaging an institute of repute. The study shall also include impact due to heavy metals associated with emission from power plant.	Shall be complied during operational phase.
65	5.4	Sewage Treatment Plant shall be provided for domestic wastewater.	For Residential area, STP is operational. In the plant area of Stage-II, work for 75 KLD capacity is awarded to M/s

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
			BHEL. Shall be complied.
6. Water quality monitoring & Management			
66	6.1	Induced/Natural draft closed cycle wet cooling system including cooling towers shall be set up with minimum Cycles of Concentration (COC) of 5.0 or above for power plants using fresh water to achieve specific water consumption of 2.5 m ³ /MWhr. (Or) Induced/Natural draft open cycle cooling systems shall be set up with minimum Cycles of Concentration (COC) of 1.5 or above for power plants using sea water.	Shall be complied as same is incorporated in main EPC package, work awarded to M/s BHEL. MoEF&CC notification dated 07.12.2015 and its amendment dated 28.06.2018 envisages a limit of 3.0 m ³ /MWh.
67	6.2	In case of the water withdrawal from river, a minimum flow 15% of the average flow of 120 consecutive leanest days should be maintained for environmental flow whichever is higher, to be released during the lean season after water withdrawal for proposed power plant.	Raw water shall be sourced from Saradih Barrage of Mahanadi River as per the agreement with Chhattisgarh Water Resource Department (CGWRD) and water drawl is being done in consultation with (CGWRD) to comply all applicable conditions. Saradih reservoir is under administrative Control of Chhattisgarh Water resource Department.
68	6.3	Records pertaining to measurements of daily water withdrawal and river flows (obtained from Irrigation Department/Water Resources Department) immediately upstream and downstream of withdrawal site shall be maintained.	Shall be complied during the operation phase of the plant.
69	6.4	Rainwater harvesting in and around the plant area be taken up to reduce drawl of fresh water. If possible, recharge of groundwater to be undertaken to improve the groundwater table in the area.	Shall be complied.
70	6.5	Regular (at least once in six months) monitoring of groundwater quality in and around the ash pond area including presence of heavy metals (Hg, Cr, As, Pb, etc.) shall be carried out as per CPCB guidelines. Surface water quality monitoring shall be undertaken for major surface water bodies as per the EMP. The data so obtained should be compared with the baseline data so as to ensure that the groundwater and surface water quality is not adversely impacted due to the project & its activities.	Being done quarterly. Data submitted.

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
71	6.6	The treated effluents emanating from the different processes such as DM plant, boiler blow down, ash pond/dyke, sewage, etc. conforming to the prescribed standards shall be re-circulated and reused. Sludge/ rejects will be disposed in accordance with the Hazardous Waste Management Rules.	Shall be complied during the operation phase of the plant.
72	6.7	Hot water dispensed from the condenser should be adequately cooled to ensure the temperature of the released surface water is not more than 5 degrees Celsius above the temperature of the intake water.	Shall be complied.
73	6.8	Based on the commitment made by the Project Proponent, Sewage Treatment Plants within the radius of 50 km from proposed project, the treated sewage ofKLD from STP (name) shall be used as an alternative to the fresh water source to minimize the freshwater drawl from surface water bodies.	<p>As per the guidelines laid down in para 6.4 & 6.6 of the Office Memorandum dated. 21st September 2020, Ministry of Power, Treated Sewage Water from the STP of Municipality/ local bodies.</p> <p>Use of treated water from Raigarh STPs may not possible due to the following reasons:</p> <p>(A) Raigarh STP (Existing - 7 MLD capacity)</p> <ul style="list-style-type: none"> • The STP and NTPC Lara are located on opposite banks of River Kelo, posing a significant logistical constraint. • The production capacity of the STP is less than 30% of NTPC Lara's cooling water requirement. <p>(B) Raigarh STP (Existing — 25 MLD capacity)</p> <p>From an environmental and water conservation perspective, it would be prudent that treated sewage water from this STP be utilized by the nearest thermal power plants (TPPs), thereby minimizing capital expenditure on pipeline length and reducing the lifetime carbon footprint of pumping operations. NTPC Lara is not in the priority zone as per vicinity; several other TPPs are located much closer to the STP.</p>
74	6.9	Wastewater generation ofKLD from various sources (viz. cooling tower blowdown, boiler blow down, wastewater from ash handling, etc) shall be treated to meet the standards of pH: 6.5-8.5; Total Suspended S	Shall be complied during the operation phase of the plant.

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
		olids: 100 mg/l; Oil & Grease: 20 mg/l; Copper: 1 mg/l; Iron:1 mg/l; Free Chlorine: 0.5; Zinc: 1.0 mg/l; Total Chromium: 0.2 mg/l; Phosphate: 5.0 mg/l;	
75	6.10	Sewage generation ofKLD will be treated by setting up Sewage Treatment plant to maintain the treated sewage characteristics of pH: 6.5-9.0; Bio-Chemical Oxygen Demand (BOD): 30 mg/l; Total Suspended Solids: 100 mg/l; Fecal Coliforms (Most Probable Number):<1000 per 100 ml.	Shall be complied during the operational phase.
	7. Risk Mitigation and Disaster Management		
76	7.1	Adequate safety measures and environmental safeguards shall be provided in the plant area to control spontaneous fires in coal yard, especially during dry and humid season.	Shall be complied during operational phase without deviation.
77	7.2	Storage facilities for auxiliary liquid fuel such as LDO and HFO/LSHS shall be made as per the extant rules in the plant area in accordance with the directives of Petroleum & Explosives Safety Organization (PESO). Sulphur Content in the liquid fuel should not exceed 0.5%.	Noted for compliance at the time of usage of LDO and HFO/LSHS. Shall be complied.
78	7.3	Ergonomic working conditions with First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Being complied.
79	7.4	Safety management plan based on Risk Assessment shall be prepared to limit the risk exposure to the workers within the plant boundary.	Being complied in construction phase & same shall be complied during operational phase.
80	7.5	Regular mock drills for on-site emergency management plan and Integrated Emergency Response System shall be developed for all kind of possible disaster situations.	Complied.
	8. Green Belt and Biodiversity conservation		
81	8.1	Green belt shall be developed in an area of 33% of the total project with indigenous native tree species in accordance with CPCB guidelines. The green belt shall inter-alia cover an entire periphery of the plant.	Shall be complied in phased manner along with erection of stage-2 units.

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
82	8.2	In-situ/ex-situ Conservation Plan for the conservation of flora and fauna should be prepared and implemented.	A Purchase Order (PO) (PO No. 550 0045236) dated 09.03.2024 has been awarded by NTPC Lara to Guru Ghasidas Vishwavidyalaya, Bilaspur for the preparation of In-site/ex-situ Conservation Plan. First quarterly report has been submitted by Guru Ghasidas Vishwavidyalaya, Bilaspur.
83	8.3	Suitable screens shall be placed across the intake channel to prevent entrainment of life forms including eggs, larvae, juvenile fish, etc., during extraction of seawater.	Lara Project is not a coastal Plant and No seawater shall be extracted.
9. Waste management			
84	9.1	Solid waste management should be planned in accordance with extant Solid Waste Management Rules, 2016.	Shall be complied.
85	9.2	Toxicity Characteristic Leachate Procedure (TCLP) test shall be conducted for any substance, potential of leaching heavy metals into the surrounding areas as well as into the groundwater.	Shall be complied.
86	9.3	Ash pond shall be lined with impervious liner as per the soil conditions. Adequate dam/dyke safety measures shall also be implemented to protect the ash dyke from getting breached.	Already complied in the ash dyke of stage-I which will be used for stage-II as well as there is no ash dyke envisaged in stage-II.
87	9.4	Fly ash shall be collected in dry form and ash generated shall be used in phased manner as per provisions of the Notification on Fly Ash Utilization issued by the Ministry and a amendment thereto. By the end of 4th year, 100% fly ash utilization should be ensured. Unutilized ash shall be disposed off in the ash pond in the form of High Concentration Slurry. Mercury and other heavy metals (As, Hg, cr, Pb, etc.) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. Fly ash utilization details shall be submitted to concerned Regional Office along with the six-monthly compliance reports and utilization data shall be published on company's website.	Shall be complied during the operation phase of the plant.
88	9.5	Unutilized ash shall be disposed off in the a	Shall be complied during the operat

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
		sh pond in the form of High Concentration Slurry/Medium Concentration Slurry/Lean Concentration Slurry method. Ash water recycling system shall be set up to recover supernatant water.	ion phase of the plant.
89	9.6	In case of waste-to-energy plant, major problems related with environment are fire smog in MSW dump site, foul smell and impacts to the surrounding populations. Therefore, the following measures are required to be taken up: i) Water hydrant at all the dump sites of MSW area to be provided so that the fire and smog could be controlled. ii) Sprayer like microbial consortia may be provided for arresting the foul smell emanating from MSW area.	Lara Stage-II is coal based TPP and not a waste-to-energy plant.
10. Monitoring of compliance			
90	10.1	Environmental Audit of the project be taken up by the third party for preparation of Environmental Statement as per Form-V & Conditions stipulated in the EC and report be submitted to the Ministry.	Shall be complied during the operation phase of the plant.
91	10.2	Resettlement & Rehabilitation Plan as per the extant rules of Govt. of India and respective State Govt. shall be followed, if applicable.	No land acquired for stage-II. Same was compiled during acquisition of land for stage-I.
92	10.3	Energy Conservation Plan to be implemented as envisaged in the EIA / EMP report. Renewable Energy Purchase Obligation as set by MoP/State Government shall be met either by establishing renewable energy power plant (such as solar, wind, etc.) or by purchasing Renewable Energy Certificates.	Shall be complied.
93	10.4	Monitoring of Carbon Emissions from the existing power plant as well as for the proposed power project shall be carried out annually from a reputed institute and report be submitted to the Ministry's Regional Office.	Noted for compliance. Report for carbon emission for the existing plant is being submitted hereby for the FY 2024-25. Total Carbon (CO ₂) emission for Stage-I: 10.49 MT (Million Tonnes) during FY 2024-25 (Copy submitted).
94	10.5	Energy and Water Audit shall be conducted at least once in two years and recommendations arising out of the Report should be followed. A report in this regard shall be submitted.	Complied. Summary of draft report submitted.

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
		itted to Ministry's Regional Office.	
95	10.6	Environment Cell (EC) shall be constituted by taking members from different divisions, headed by a qualified person on the subject, who shall be reporting directly to the Head of the Project.	Noted to ensure compliance. Presently in compliance.
96	10.7	<p>The project proponent shall (Post-EC Monitoring):</p> <ol style="list-style-type: none"> send a copy of environmental clearance letter to the heads of Local Bodies, Panchayat, Municipal bodies and relevant offices of the Government; upload the clearance letter on the website of the company as a part of information to the general public. inform the public through advertisement within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forest and Climate Change (MoEF&CC) at http://parviesh.nic.in. upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same periodically; monitor the criteria pollutants level namely; PM (PM10& PM2.5) in case of ambient AAQ, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company; submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB; submit the environmental statement for each financial year in Form-V to the conc 	<p>Complied. Submission Copy provided</p> <p>Complied. https://ntpc.co.in/sites/default/files/inline-files/Environment%20Clearance%20of%20Lara%20STPP%20Stage-II%20%282X800MW%29.pdf</p> <p>Complied. Kelo Pravah: 21.07.2023 Times of India: 21.07.2023 Dainik Bhaskar: 21.07.2023 Copy submitted</p> <p>Shall be complied. Shall be complied during the operation phase of the plant.</p> <p>Being Complied. Shall be complied during the operation phase of the plant. Investment approval for the project was accorded by the Board of Directors on 28.09.2023, which may be considered as the date of financial closure.</p>

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
		<p>erned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company;</p> <p>h. inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project and the date of commencement of the land development work.</p>	
11. Corporate Environmental Responsibility (CER) activities			
97	11.1	CER activities will be carried out as per OM No. 22-65/2017-IA.III dated 30.9.2020 or as proposed by the PP in reference to Public Hearing or as earmarked in the EIA/EMP report along with the detailed schedule of implementation with appropriate budgeting.	Shall be complied.
12. Marine facilities			
98	12.1	As the seawater intake systems are required for the plant fall in CRZ area, recommendations from State Coastal Zone Management Authority (SCZMA) as per CRZ Notification shall be implemented.	Lara Project is not a coastal Plant and No seawater shall be extracted.
99	12.2	Marine intake and outfall pipelines shall be located as per the recommendations State Coastal Zone Management Authority (SCZMA).	Lara Project is not a coastal Plant and No seawater shall be extracted.
13. Sea Water Intake			
100	13.1	Seawater intake system shall be so designed and constructed to ensure sufficient seawater in terms of quantity and quality.	Lara Project is not a coastal Plant and No seawater shall be extracted.
101	13.2	The withdrawal of seawater shall be preferably through a pipeline with a riser equipped with a velocity cap arrangement and bar screen to arrest the impingement of large marine organisms.	Lara Project is not a coastal Plant and No seawater shall be extracted.
102	13.3	In all tide conditions (particularly at spring low tides) the riser head must be flooded with the required submergence of seawater above its top.	Lara Project is not a coastal Plant and No seawater shall be extracted.

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
		14. Effluent Release	
103	14.1	At the effluent release point, maximum temperature of the discharge water shall not be more than 5oC and salinity shall not exceed 50 ppt with respect to that of the ambient seawater.	Lara Project is not a coastal Plant and No seawater shall be extracted.
104	14.2	Use of antifouling agents like chlorine / hypochlorite, shall be carefully controlled. The chlorine concentration shall not exceed 0.2 ppm at the effluent release point.	Lara Project is not a coastal Plant and No seawater shall be extracted.
105	14.3	The effluent when released at the selected location shall attain sufficient dilution so that near ambient water quality (particularly temperature and salinity) is attained within 500 m from the release location, at low tide.	Lara Project is not a coastal Plant and No seawater shall be extracted.
106	14.4	The location of the diffuser shall be marked with a solar lighted buoy to avoid accidents.	Lara Project is not a coastal Plant and No seawater shall be extracted.
107	14.5	The site selected based on mathematical modeling shall ensure absence of recirculation of the effluent plume in the seawater intake area under all tidal conditions.	Lara Project is not a coastal Plant and No seawater shall be extracted.
108	14.6	The effluent shall be released through a properly designed multiport diffuser above the seabed to facilitate its efficient initial mixing with the receiving seawater.	Lara Project is not a coastal Plant and No seawater shall be extracted.
109	14.7	Efficacy of the diffuser shall be ascertained at least once in 2 years through scientific studies and corrective actions such as cleaning of the diffuser from marine growth, removal of silt deposits, etc. shall be taken up, if warranted.	Lara Project is not a coastal Plant and No seawater shall be extracted.
110	14.8	Continuous online monitoring system for Temperature and Salinity shall be installed to monitor the quality of effluent.	Lara Project is not a coastal Plant and No seawater shall be extracted.
	15. Common to intake and effluent		
111	15.1	The pipeline shall be buried below the seabed at a depth to ensure its stability under rough sea conditions particularly during cyclone / tsunami. The depth of burial will depend on the seafloor strata but normally the to	Lara Project is not a coastal Plant and No seawater shall be extracted.

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
		p of the pipeline shall be at least 1 m below the bed level. In the surf and intertidal zone s, the pipeline shall be buried below the maximum scour level.	
112	15.2	In case of open channel, the channel shall be constructed as per the recommendations of State Coastal Zone Management Authority (SCZMA).	Lara Project is not a coastal Plant and No seawater shall be extracted.
113	15.3	If the substratum is rocky the pipeline may be anchored to the rock provided the geology of the area satisfactorily supports the structure which shall be ascertained through geo-technical investigations.	Lara Project is not a coastal Plant and No seawater shall be extracted.
114	15.4	Exposed pipeline section and riser shall be protected by armor stone from waves, boats anchoring, fishing activities etc.	Lara Project is not a coastal Plant and No seawater shall be extracted.
115	15.5	The location of the riser & diffuser shall be marked with a solar lighted buoy to avoid accidents from boats.	Lara Project is not a coastal Plant and No seawater shall be extracted.
116	15.6	Marine / Sea water quality shall be monitored at effluent release location at the center. Parameters to be monitored shall be as follows: a. Physico-chemical: Temperature, Salinity, pH and Dissolved Oxygen. b. Biological: Primary Productivity, Phytoplankton (Chlorophyll a, Phaeophytin, Population, Species), Zooplankton (Biomass, Population, Species) and Benthos (Biomass, Population, Species).	Lara Project is not a coastal Plant and No seawater shall be extracted.
117	15.7	In case of Coastal Power Plants, the Mangrove plantation shall be taken up in an area ofha, along the coast/ on the banks of Estuary.	Lara Project is not a coastal Plant and No seawater shall be extracted.

34.1.5: The details of the conditions for which amendment is sought and their justification for the same is as follows:

Sr. No.	Reference / EC condition no.	Details of Conditions as per EC dated 17/07/2023	Amendment Sought	Justification
1.	Subject /Project Name	"Expansion of Coal Based Lara Super Thermal Power Project from capacity 1600 (2x800 MW) to 3200	Expansion of Coal Based Lara Super Thermal Power Project from capacity 1600 (2x800 MW) to 3200	Since the project is located in Villages Armuda, Chhapora, Bodajhariya, Mahloi, Riyapalli, Kandagar

Sr. No.	Reference / EC condition no.	Details of Conditions as per EC dated 17/07/2023	Amendment Sought	Justification
		<i>MW by addition of 2x800 MW in an area of 1036.59 ha located at villages Armuda, Chhapora, Bodajharia, Devalpura, Mahloi, Riyapalli, Lara, Jhilgit ar and Kandagarh Tehsil Pussore District Raigarh (Chhattisgarh)”</i>	0 MW by addition of 2x800 MW in an area of 892.06 ha located at villages Armuda, Chhapora, Bodajharia, Mahloi, Riyapalli, Kandagarh, Devalpura, Ghutkupali, Thengapali, Lara in Tehsil Pussore, District Raigarh and Village Saradih in Tehsil Dabhara, District Sakti, Chhattisgarh.	h. Devalpura, Ghutkupali, Thengapali, Lara in Tehsil Pussore, District Raigarh and Village Saradih in Tehsil Dabhara, District Sakti.
2.	Specific EC Condition no. 2.1 (xxix)	<i>“As committed, a multi-specialty Hospital with 100 beds shall be established to cater the need of population living within 10 km.”</i>	Waiver of this condition	NTPC Lara has consistently extended financial support for strengthening healthcare facilities in the region. An amount of ₹ 50 Crores has been provided to Raigarh Medical College for the upgradation of infrastructure and installation of latest medical equipment, thereby ensuring modern facilities, improved amenities, and enhanced medical capacity for the local population. In addition, NTPC Lara has extended a grant of ₹35.53 Crores to Akhil Bharatiya Vanvasi Kalyan Ashram Hospital, Jashpur for expansion and enhancement of healthcare services in tribal and rural areas. These contributions highlight NTPC Lara's commitment towards improving healthcare access and quality, while reinforcing its role as a reliable partner in regional development and welfare. Memorandum of Agreement (MoA) was signed between District Administration, Raigarh & M/s NTPC Lara for the establishment of the 100 bedded Multi speciality hospital in tehs

Sr. No.	Reference / EC condition no.	Details of Conditions as per EC dated 17/07/2023	Amendment Sought	Justification
				il Pussore, Raigarh District (CG) but was cancelled by the district administration. District Administration (CSR Branch), Raigarh, Chhattisgarh has given a letter to NTPC Lara (Letter No. GENS/2799/2025-COLL RGH CSR SEC/191, dated. 08.09.2025) & it has asked NTPC Lara to provide Rs. 29.99 Crore for "Kelo River Conservation & Rejuvenation Project". NTPC Lara has already provided 20.01 Crore for 100 bed hospital, which shall be adjusted to Kelo River Conservation & Rejuvenation as per the letter received from District Administration & the remaining amount, which is Rs. 9.98 Crore, has been asked to provide.
3.	Specific EC Condition no. 3.1(ix)	<i>"Project proponent shall explore the use of treated sewage water from the Sewage Treatment Plant of Municipality / local bodies/ similar organization located within 50km radius of the proposed power project to minimize the water drawl from surface water bodies."</i>	Deletion of this condition	As per the guidelines laid down in para 6.4 & 6.6 of the Office Memorandum dated. 21st September 2020, Ministry of Power, Treated Sewage Water from the STP of Municipality/ local bodies is not required. Use of treated water from Raigarh STPs is not possible due to the following reasons: (A) Raigarh STP (Existing - 7 MLD capacity) • The STP and NTPC Lara are located on opposite banks of River Kelo, posing a significant logistical constraint. • The production capacity of the STP is less than 30% of NTPC Lara's cooling water requirement.

Sr. No.	Reference / EC condition no.	Details of Conditions as per EC dated 17/07/2023	Amendment Sought	Justification
				(B) Raigarh STP (Existing — 25 MLD capacity) From an environmental and water conservation perspective, it would be prudent that treated sewage water from this STP be utilized by the nearest thermal power plants (TPPs), thereby minimizing capital expenditure on pipeline length and reducing the lifetime carbon footprint of pumping operations. NTPC Lara is not in the priority zone as per vicinity; several other TPPs are located much closer to the STP.
4.	Specific EC Condition no. 3.1(xxii i)	<i>“Explore desulphurization from biotechnological method”</i>	Deletion of this condition	It is not feasible due to the quantity of coal being used for stage-I & proposed for Stage-II.
5.	Standard EC Condition no. 1.2	<i>“Part C of Schedule II of Municipal Solid Wastes Rules, 2016 dated 08.04.2016 as amended from time to time shall be complied for power plants based on Municipal Solid Waste”</i>	Deletion of this condition	Proposed Lara stage-II is a coal-based Thermal Power Plant which is a super critical technology based power plant. NTPC Lara shall not use Municipal Solid Waste.
6.	Standard EC Condition no. 1.5	<i>“Thermal Power Plants other than the power plants located on coast and using sea water for cooling purposes, shall achieve specific water consumption of 2.5 m³ /MWh and Zero effluent discharge.”</i>	Lara STPP Stage-II shall achieve specific water consumption of 3.0 m ³ /MWh and Zero effluent discharge.	MoEF&CC notification dated 07.12.2015 and its amendment dated 28.06.2018 envisages a limit of 3.0 m ³ /MWh.
7.	Standard EC Condition no. 6.8	<i>“Based on the commitment made by the Project Proponent, Sewage Treatment Plants within the radius of 50 km from proposed project, the treated sewage ofKLD from STP (name) shall be use</i>	Deletion of this condition	MoEF&CC notification dated 07.12.2015 and its amendment dated 28.06.2018 envisages a limit of 3.0 m ³ /MWh. As per the guidelines laid down in para 6.4 & 6.6 of the Office Memorandum

Sr. No.	Reference / EC condition no.	Details of Conditions as per EC dated 17/07/2023	Amendment Sought	Justification
		<i>used as an alternative to the fresh water source to minimize the freshwater drawl from surface water bodies."</i>		<p>m dated. 21st September 2020, Ministry of Power, Treated Sewage Water from the STP of Municipality/ local bodies is not required.</p> <p>Use of treated water from Raigarh STPs is not possible due to the following reasons:</p> <p>(A) Raigarh STP (Existing - 7 MLD capacity)</p> <ul style="list-style-type: none"> • The STP and NTPC Lara are located on opposite banks of River Kelo, posing a significant logistical constraint. • The production capacity of the STP is less than 30% of NTPC Lara's cooling water requirement. <p>(B) Raigarh STP (Existing — 25 MLD capacity)</p> <p>From an environmental and water conservation perspective, it would be prudent that treated sewage water from this STP be utilized by the nearest thermal power plants (TPPs), thereby minimizing capital expenditure on pipeline length and reducing the lifetime carbon footprint of pumping operations. NTPC Lara is not in the priority zone as per vicinity; several other TPPs are located much closer to the STP.</p>
8.	Standard EC Condition no. 8.3	<i>"Suitable screens shall be placed across the intake channel to prevent entrainment of life forms including eggs, larvae, juvenile fish, etc., during extraction of seawater"</i>	Deletion of this condition	Lara Project is not a coastal Plant and No seawater shall be extracted.
9.	Standard EC Condition	<i>"In case of waste-to-energy plant, major problems</i>	Deletion of this condition	Lara Stage-II is coal based TPP and not a waste-t

Sr. No.	Reference / EC condition no.	Details of Conditions as per EC dated 17/07/2023	Amendment Sought	Justification
	n no. 9.6	<i>related with environment are fire smog in MSW dump site, foul smell and impacts to the surrounding populations. Therefore, the following measures are required to be taken up: i) Water hydrant at all the dumpsites of MSW area to be provided so that the fire and smog could be controlled. ii) Sprayer like microbial consortia may be provided for arresting the foul smell emanating from MSW area"</i>		o energy plant.
10.	Standard EC Condition no. 10.2	<i>"Resettlement & Rehabilitation Plan as per the extant rules of Govt. of India and respective State Govt. shall be followed, if applicable"</i>	Deletion of this condition	No land acquired for stage-II. Same is in compliance during of acquisition of land for stage-I.
11.	Standard EC Condition no. 12.1	<i>"As the seawater intake systems are required for the plant fall in CRZ area, recommendations from State Coastal Zone Management Authority (SCZMA) as per CRZ Notification shall be implemented."</i>	Deletion of this condition	Lara Project is not a coastal Plant and No seawater shall be extracted.
12.	Standard EC Condition no. 12.2	<i>"Marine intake and outfall pipelines shall be located as per the recommendations State Coastal Zone Management Authority (SCZMA)"</i>	Deletion of this condition	Lara Project is not a coastal Plant and No seawater shall be extracted.
13.	Standard EC Condition no. 13.1	<i>"Seawater intake system shall be so designed and constructed to ensure sufficient sweater in terms of quantity and quality."</i>	Deletion of this condition	Lara Project is not a coastal Plant and No seawater shall be extracted.
14.	Standard EC Condition no. 13.2	<i>"The withdrawal of seawater shall be preferably through a pipeline with a riser equipped with a velocity</i>	Deletion of this condition	Lara Project is not a coastal Plant and No seawater shall be extracted.

Sr. No.	Reference / EC condition no.	Details of Conditions as per EC dated 17/07/2023	Amendment Sought	Justification
		<i>cap arrangement and bar screen to arrest the impingement of large marine organisms."</i>		
15.	Standard EC Condition no. 13.3	<i>"In all tide conditions (particularly at spring low tides) the riser head must be flooded with the required submergence of seawater above its top."</i>	Deletion of this condition	Lara Project is not a coastal Plant and No seawater shall be extracted.
16.	Standard EC Condition no. 14.1	<i>"At the effluent release point, maximum temperature of the discharge water shall not be more than 5°C and salinity shall not exceed 50 ppt with respect to that of the ambient seawater"</i>	Deletion of this condition	Lara Project is not a coastal Plant and No seawater shall be extracted.
17.	Standard EC Condition no. 14.2	<i>"Use of antifouling agents like chlorine / hypochlorite, shall be carefully controlled. The chlorine concentration shall not exceed 0.2 ppm at the effluent release point."</i>	Deletion of this condition	Lara Project is not a coastal Plant and No seawater shall be extracted.
18.	Standard EC Condition no. 14.3	<i>"The effluent when released at the selected location shall attain sufficient dilution so that near ambient water quality (particularly temperature and salinity) is attained within 500 m from the release location, at low tide."</i>	Deletion of this condition	Lara Project is not a coastal Plant and No seawater shall be extracted.
19.	Standard EC Condition no. 14.4	<i>"The location of the diffuser shall be marked with a solar lighted buoy to avoid accidents"</i>	Deletion of this condition	Lara Project is not a coastal Plant and No seawater shall be extracted.
20.	Standard EC Condition no. 14.5	<i>"The site selected based on mathematical modelling shall ensure absence of recirculation of the effluent plume in the seawater intake area under all tidal</i>	Deletion of this condition	Lara Project is not a coastal Plant and No seawater shall be extracted.

Sr. No.	Reference / EC condition no.	Details of Conditions as per EC dated 17/07/2023	Amendment Sought	Justification
		conditions”		
21.	Standard EC Condition no. 14.6	“The effluent shall be released through a properly designed multiport diffuser above the seabed to facilitate its efficient initial mixing with the receiving sea water.”	Deletion of this condition	Lara Stage-II is coal based TPP and not a waste-to energy plant.
22.	Standard EC Condition no. 14.7	“Efficacy of the diffuser shall be ascertained at least once in 2 years through scientific studies and corrective actions such as cleaning of the diffuser from marine growth, removal of silt deposits, etc. shall be taken up, if warranted.”	Deletion of this condition	Lara Stage-II is coal based TPP and not a waste-to energy plant.
23.	Standard EC Condition no. 14.8	“Continuous online monitoring system for Temperature and Salinity shall be installed to monitor the quality of effluent.”	Deletion of this condition	Lara Stage-II is coal based TPP and not a waste-to energy plant.
24.	Standard EC Condition no. 15.1	“The pipeline shall be buried below the seabed at a depth to ensure its stability under rough sea conditions particularly during cyclone / tsunami. The depth of burial will depend on the seafloor strata but normally the top of the pipeline shall be at least 1 m below the bed level. In the surf and intertidal zones, the pipeline shall be buried below the maximum scour level.”	Deletion of this condition	Lara Stage-II is coal based TPP and not a waste-to energy plant.
25.	Standard EC Condition no. 15.2	“In case of open channel, the channel shall be constructed as per the recommendations of State Coastal Zone Management Authority (SCZMA).”	Deletion of this condition	Lara Stage-II is coal based TPP and not a waste-to energy plant.
26.	Standard E	“If the substratum is rock	Deletion of this condition	Lara Stage-II is coal base

Sr. No.	Reference / EC condition no.	Details of Conditions as per EC dated 17/07/2023	Amendment Sought	Justification
	C Condition no. 15.3	<i>y the pipeline may be anchored to the rock provided the geology of the area satisfactorily supports the structure which shall be ascertained through geotechnical investigations”</i>		d TPP and not a waste-to energy plant.
27.	Standard EC Condition no. 15.4	<i>“Exposed pipeline section and riser shall be protected by armor stone from waves, boats anchoring, fishing activities etc.”</i>	Deletion of this condition	Lara Stage-II is coal based TPP and not a waste-to energy plant.
28.	Standard EC Condition no. 15.5	<i>“The location of the riser & diffuser shall be marked with a solar lighted buoy to avoid accidents from boats”.</i>	Deletion of this condition	Lara Stage-II is coal based TPP and not a waste-to energy plant.
29.	Standard EC Condition no. 15.6	<i>“Marine / Sea water quality shall be monitored at effluent release location at the center. Parameters to be monitored shall be as follows: a. Physico-chemical: Temperature, Salinity, pH and Dissolved Oxygen. b. Biological: Primary Productivity, Phytoplankton (Chlorophyll a, Phaeophytin, Population, Species), Zooplankton (Biomass, Population, Species) and Benthos (Biomass, Population, Species).”</i>	Deletion of this condition	Lara Stage-II is coal based TPP and not a waste-to energy plant.
30.	Standard EC Condition no. 15.7	<i>“In case of Coastal Power Plants, the Mangrove plantation shall be taken up in an area ofha, along the coast/ on the banks of Estuary.”</i>	Deletion of this condition	Lara Stage-II is coal based TPP and not a waste-to energy plant.

Justification for the proposed EC amendment: Ministry of Environment, Forest & Climate Change has accorded Environment clearance (EC) for “2x800 MW (Expansion, Stage-II) Coal Based Lara Super Thermal Power Project at villages Armuda, Chhapora, Bodajhariya, Mahloi, Riyapalli, Kandagarh, Jhiltigar, Devalpura, Ghutkupali, Thengapali, Lara in Tehsil Pussore, District Raigarh and Village Saradih in Tehsil Dabhara, District Sakti, Chhattisgarh” vide File No: J-13012/11/2018-IA.I (T) Dated 17.07.2023.

Subsequently, the investment approval (financial closure) for Lara STPP, Stage-II has been

accorded by Board of NTPC Limited on 28.09.2023. With the investment approval, the activities towards project development and compliance with EC conditions have been initiated.

NTPC has started construction activities of Lara STPP Stage-II on 12.04.2024 and making its all-out efforts to comply with all the EC Conditions. However, a detailed examination of EC conditions reveals that some of the conditions are not applicable to the project Lara STPP Stage-II, hence need deletion while some other conditions need review and amendment.

34.1.6: Summary of violation under EIA, 2006/court case/show cause/direction if any, related to the project under consideration shall be furnished.

A. Summary of court cases: There are total 72 cases related with Lara STPP is pending, out of these 02 cases are related with Arbitration, 03 cases related to Civil Application, 07 cases related to Contract Matter, 01 cases related to the Insolvency and Bankruptcy Code (IBC), 56 cases related to Land Acquisition, 01 Cases related to Land Acquisition/ ROU, 01 cases related to Misc., & 01 case related with Service. There is no court case related with Environment & Forest of the project under consideration.

B. Summary of Show Cause Notices (Last two years): No Show Cause Notices in last two years

C. Summary of violation: There are no violation cases under the Environmental Protection Act 1986, Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980, and Wildlife (Protection) Act, 1972.

3.1.3. Deliberations by the committee in previous meetings

N/A

3.1.4. Deliberations by the EAC in current meetings

Observations and deliberation of the EAC

34.1.7: The Committee observed and noted the following:

Recommendations of the Committee:

34.1.8: In view of the foregoing and after the detailed deliberations, the Committee **partially recommended** the instant proposal for grant of amendment in the EC dated **17.07.2023** as detailed below. All other terms and conditions prescribed in EC dated **17.07.2023** shall remain unchanged:

S r. No.	Refer ence / EC cond ition no.	Details of Conditions as per EC dated 17.07.2023	Recommendations of EAC
1.	Subject /Project Name	"Expansion of Coal Based Lara Super Thermal Power Project from capacity 1600 (2x800 MW) to 3200 MW by addition of 2x800 MW in an area of 1036.59 ha located at villages Armuda, Chhapora, Bodajharia, Devalpura, Mahloi, Riyapalli, Lara, Jhulgitar and Kandagarh Tehsil Pussore District Raigarh (Chhattisgarh)"	Not agreed EAC not agreed for amendment in this condition and asked the Project Proponent to revisit the land-use pattern and breakup of previous ECs for Stage I & II as well as expansion ToR for Stage III project as there are discrepancies and PP should take amendment accordingly. PP also needs to submit an undertaking confirming that no additional R&R is involved, along with the submission of the EC amendment application.

S r. N o.	Refere nce / EC cond ition no.	Details of Conditions as per EC dated 17.07.2023	Recommendations of EAC
2.	Spec ific E C Co nditi on n o. 2. 1 (xx ix)	<i>"As committed, a multi-specialty Hospital with 100 beds shall be established to cater the need of population living within 10 km."</i>	Agreed EAC recommended to delete this condition.
3.	Spec ific E C Co nditi on n o. 3. 1(ix)	<i>"Project proponent shall explore the use of treated sewage water from the Sewage Treatment Plant of Municipality / local bodies/ similar organization located within 50km radius of the proposed power project to minimize the water drawl from surface water bodies."</i>	Partially agreed. EAC recommended to modify this condition as below: <i>Project proponent shall explore the feasibility regarding use of treated sewage water from the Sewage Treatment Plant of Municipality / local bodies/ similar organization located within 50km radius of the proposed power project to minimize the water drawl from surface water bodies.</i>
4.	Spec ific E C Co nditi on n o. 3. 1 (xx iii)	<i>"Explore desulphurization from biotechnological method"</i>	Agreed EAC recommended to delete this condition.
5.	Stan dard EC C ondi tion no. 1.2	<i>"Part C of Schedule II of Municipal Solid Wastes Rules, 2016 dated 08.04.2016 as amended from time to time shall be complied for power plants based on Municipal Solid Waste"</i>	Agreed EAC recommended to delete this condition.
6.	Stan dard EC C ondi tion no. 1.5	<i>"Thermal Power Plants other than the power plants located on coast and using sea water for cooling purposes, shall achieve specific water consumption of 2.5 m³ /MWh and Zero effluent discharge."</i>	Agreed. EAC recommended to modify this condition as below: <i>"Thermal Power Plants other than the power plants located on coast and using sea water for cooling purposes, shall achieve specific water consumption of 3 m³ /MWh and Zero effluent discharge."</i>

S r. N o.	Refe renc e / EC cond ition no.	Details of Conditions as per EC dated 17.07.2023	Recommendations of EAC
7.	Stan dard EC C ondi tion no. 6.8	<i>"Based on the commitment made by the Project Proponent, Sewage Treatment Plants within the radius of 50 km from proposed project, the treated sewage ofKLD from STP (name) shall be used as an alternative to the fresh water source to minimize the freshwater drawl from surface water bodies."</i>	Partially agreed. EAC recommended to modify this condition as below: <i>Based on the commitment made by the Project Proponent, PP shall explore the feasibility regarding use of treated sewage water from the Sewage Treatment Plant of Municipality / local bodies/ similar organization located within 50km radius of the proposed power project to minimize the water drawl from surface water bodies"</i>
8.	Stan dard EC C ondi tion no. 8.3	<i>"Suitable screens shall be placed across the intake channel to prevent entrainment of life forms including eggs, larvae, juvenile fish, etc., during extraction of seawater"</i>	Agreed EAC recommended to delete this condition.
9.	Stan dard EC C ondi tion no. 9.6	<i>"In case of waste-to-energy plant, major problems related with environment are fire smog in MSW dump site, foul smell and impacts to the surrounding populations. Therefore, the following measures are required to be taken up: i) Water hydrant at all the dumpsites of MSW area to be provided so that the fire and smog could be controlled. ii) Sprayer like microbial consortia may be provided for arresting the foul smell emanating from MSW area"</i>	Agreed EAC recommended to delete this condition.
10.	Stan dard EC C ondi tion no. 10.2	<i>"Resettlement & Rehabilitation Plan as per the extant rules of Govt. of India and respective State Govt. shall be followed, if applicable"</i>	Not agreed
11.	Stan dard EC C ondi tion no. 12.1	<i>"As the seawater intake systems are required for the plant fall in CRZ area, recommendations from State Coastal Zone Management Authority (SCZMA) as per CRZ Notification shall be implemented."</i>	Agreed EAC recommended to delete this condition.

S r. N o.	Refe renc e / EC cond ition no.	Details of Conditions as per EC dated 17.07.2023	Recommendations of EAC
1 2.	Stan dard EC C ondi tion no. 1 2.2	<i>"Marine intake and outfall pipelines shall be located as per the recommendations State Coastal Zone Management Authority (SCZMA)"</i>	Agreed EAC recommended to delete this condition.
1 3.	Stan dard EC C ondi tion no. 1 3.1	<i>"Seawater intake system shall be so designed and constructed to ensure sufficient sweater in terms of quantity and quality."</i>	Agreed EAC recommended to delete this condition.
1 4.	Stan dard EC C ondi tion no. 1 3.2	<i>"The withdrawal of seawater shall be preferably through a pipeline with a riser equipped with a velocity cap arrangement and bar screen to arrest the impingement of large marine organisms."</i>	Agreed EAC recommended to delete this condition.
1 5.	Stan dard EC C ondi tion no. 1 3.3	<i>"In all tide conditions (particularly at spring low tides) the riser head must be flooded with the required submergence of seawater above its top."</i>	Agreed EAC recommended to delete this condition.
1 6.	Stan dard EC C ondi tion no. 1 4.1	<i>"At the effluent release point, maximum temperature of the discharge water shall not be more than 5°C and salinity shall not exceed 50 ppt with respect to that of the ambient seawater"</i>	Agreed EAC recommended to delete this condition.
1 7.	Stan dard EC C ondi tion no. 1	<i>"Use of antifouling agents like chlorine / hypochlorite, shall be carefully controlled. The chlorine concentration shall not exceed 0.2 ppm at the effluent release point."</i>	Agreed EAC recommended to delete this condition.

S r. N o.	Refe renc e / EC cond ition no.	Details of Conditions as per EC dated 17.07.2023	Recommendations of EAC
	4.2		
1 8.	Stan dard EC C ondi tion no. 1 4.3	<i>"The effluent when released at the selected location shall attain sufficient dilution so that near ambient water quality (particularly temperature and salinity) is attained within 500 m from the release location, at low tide."</i>	Agreed EAC recommended to delete this condition.
1 9.	Stan dard EC C ondi tion no. 1 4.4	<i>"The location of the diffuser shall be marked with a solar lighted buoy to avoid accidents"</i>	Agreed EAC recommended to delete this condition.
2 0.	Stan dard EC C ondi tion no. 1 4.5	<i>"The site selected based on mathematical modelling shall ensure absence of recirculation of the effluent plume in the seawater intake area under all tidal conditions"</i>	Agreed EAC recommended to delete this condition.
2 1.	Stan dard EC C ondi tion no. 1 4.6	<i>"The effluent shall be released through a properly designed multiport diffuser above the seabed to facilitate its efficient initial mixing with the receiving seawater."</i>	Agreed EAC recommended to delete this condition.
2 2.	Stan dard EC C ondi tion no. 1 4.7	<i>"Efficacy of the diffuser shall be ascertained at least once in 2 years through scientific studies and corrective actions such as cleaning of the diffuser from marine growth, removal of silt deposits, etc. shall be taken up, if warranted."</i>	Agreed EAC recommended to delete this condition.
2 3.	Stan dard EC C ondi	<i>"Continuous online monitoring system for Temperature and Salinity shall be installed to monitor the quality of effluent."</i>	Agreed EAC recommended to delete this condition.

S r. N o.	Refe renc e / EC cond ition no.	Details of Conditions as per EC dated 17.07.2023	Recommendations of EAC
	tion no. 1 4.8		
2 4.	Stan dard EC C ondi tion no. 1 5.1	<i>"The pipeline shall be buried below the seabed at a depth to ensure its stability under rough sea conditions particularly during cyclone / tsunami. The depth of burial will depend on the seafloor strata but normally the top of the pipeline shall be at least 1 m below the bed level. In the surf and intertidal zones, the pipeline shall be buried below the maximum scour level."</i>	Agreed EAC recommended to delete this condition.
2 5.	Stan dard EC C ondi tion no. 1 5.2	<i>"In case of open channel, the channel shall be constructed as per the recommendations of State Coastal Zone Management Authority (SCZMA)."</i>	Agreed EAC recommended to delete this condition.
2 6.	Stan dard EC C ondi tion no. 1 5.3	<i>"If the substratum is rocky the pipeline may be anchored to the rock provided the geology of the area satisfactorily supports the structure which shall be ascertained through geo-technical investigations"</i>	Agreed EAC recommended to delete this condition.
2 7.	Stan dard EC C ondi tion no. 1 5.4	<i>"Exposed pipeline section and riser shall be protected by armor stone from waves, boats anchoring, fishing activities etc."</i>	Agreed EAC recommended to delete this condition.
2 8.	Stan dard EC C ondi tion no. 1 5.5	<i>"The location of the riser & diffuser shall be marked with a solar lighted buoy to avoid accidents from boats".</i>	Agreed EAC recommended to delete this condition.
2	Stan	<i>"Marine / Sea water quality shall be monitored</i>	Agreed

S r. N o.	Refe renc e / EC cond ition no.	Details of Conditions as per EC dated 17.07.2023	Recommendations of EAC
9.	Standard EC Condition no. 15.6	at effluent release location at the center. Parameters to be monitored shall be as follows: a. Physico-chemical: Temperature, Salinity, pH and Dissolved Oxygen. b. Biological: Primary Productivity, Phytoplankton (Chlorophyll a, Phaeophytin, Population, Species), Zooplankton (Biomass, Population, Species) and Benthos (Biomass, Population, Species)."	EAC recommended to delete this condition.
30.	Standard EC Condition no. 15.7	"In case of Coastal Power Plants, the Mangrove plantation shall be taken up in an area ofha, along the coast/ on the banks of Estuary."	Agreed EAC recommended to delete this condition.

3.1.5. Recommendation of EAC

Recommended

3.1.6. Details of Environment Conditions

3.1.6.1. Specific

All the other terms and conditions of previously granted ECs and their amendments shall remain unchanged.	
1.	All the other terms and conditions of previously granted ECs and their amendments shall remain unchanged.

3.2. Agenda Item No 2:

3.2.1. 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 Sub-Activity

			(Schedule Item)
IA/TN/THE/431783/2023	J-13012/68/2006-IA-II(T)	10/06/2023	Thermal Power Plants Coal/Lignite based plants (1(d))

3.2.2. Project Salient Features

Agenda item No. 34.2

34.2: 2x500MW Thermal Power Plant by **M/s NLC Tamilnadu Power Limited**, located at Harbour Estate, Tuticorin, Tamil Nadu - 628004 - **Amendment in Environmental Clearance (EC) - regarding.**

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

34.2.1: **M/s. NLC Tamilnadu Power Limited** has made online application vide proposal no. IA/TN/THE/431783/2023 dated 10/06/2023 along with Form-4 and sought for amendment in the Environmental Clearance accorded by the Ministry vide letter no. F. No. J-13012/68/2006-IA-II(T) dated 13/06/2007 and it's extension dated 11/01/2013 under the provisions of the EIA Notification, 2006 for the project mentioned above.

The instant proposal for amendment in Environmental Clearance was earlier considered by the EAC in its 43rd meeting held on 19.06.2023, wherein the EAC deferred the proposal for want of additional information. Further, the proposal was considered and recommended during 46th EAC meeting held on 4th Sept., 2023. However, it was observed that EC was granted by the Ministry in favour of M/s Neyveli Lignite Corporation Ltd vide letter 13.06.2007 and subsequent extension vide letter dated 11.01.2013, however, proposal for transfer of EC has not been submitted by M/s NLC Tamilnadu Power Limited. Accordingly, PP was requested vide ADS dated 20.10.2023 and 23.07.2024 first to get the transfer of existing EC from M/s Neyveli Lignite Corporation Ltd to M/s NLC Tamilnadu Power Limited and thereafter recommendation of EAC for amendment in EC may be processed after the transfer of EC. Subsequently, EC was transferred by the Ministry vide lr. dated 31.07.2025, from M/s. Neyveli Lignite Corporation Limited to M/s. NLC Tamil Nadu Power Limited.

PP vide letter dated 02.08.2025 submitted EC transfer letter granted by MoEF&CC vide letter dated 31/07/2025 and requested for amendment in Environmental clearance. Since, the PP requested for deletion of CSR conditions laid in the EC letter extension letter dated 11.01.2013, an ADS was raised on dated 29.09.2025 for submission of information w.r.t Recurring cost to be earmarked to address the issues/concerns of PH and CSR activities envisaged (under Rs. 19.63 Cr) Vs Actual CSR activities implemented (under Rs. 189 cr.). Subsequent to submission of ADS reply by the PP on dated 26.11.2025, the proposal was placed before the EAC in its 34th meeting held on 9th December, 2025 for consideration of amendment in Environmental Clearance dated 13/06/2007 and it's extension dated 11/01/2013.

Details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meeting, are given as under:

34.2.2: The existing project (2x500 MW) of **M/s. NLC Tamilnadu Power Limited** was granted Environmental Clearance from the Ministry vide letter no. F. No. J-13012/68/2006-IA-II(T) dated 13/06/2007 and it's extension dated 11/01/2013 for setting up 2X500 MW Tuticorin Thermal Power Project, District Tuticorin, Tamil Nadu in the name of of M/s. Neyveli Lignite Corporation Ltd. Further, EC was transferred by the Ministry vide lr. dated 31.07.2025, from M/s. Neyveli Lignite Corporation Limited to M/s. NLC Tamil Nadu Power Limited.

34.2.3: The implementation status of the existing EC is as follows

S. No	Power	As per EC dated 13/06/2007 and validity extension dated 11/01/2013	As per CTO* dated 12/04/2022	Balance Quantity
1	2X500 MW	2X500 MW	2X500 MW	Nil

*Valid up to 31 March 2027

34.2.4: Compliance status to the EC conditions

All the EC conditions have been implemented and the status of compliance is being submitted periodically in the Half-yearly EC compliance report. Certified Compliance Report (CCR) dated 17/06/2025 was issued from the Regional Office, MoEF&CC, Chennai.

34.2.5: The details of the condition for which amendment is sought and justification for the same is as follows:

Sr. No.	Condition No. / Details of Conditions as per EC dated 11.01.2013	Amendment Sought	Justification
1.	Additional Condition No. (xxxiv) "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."	EC Condition no. (xxxiv) in said stipulation may be deleted.	The CSR activities to be undertaken by an industry is under 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.

34.2.6: Summary of violation under EIA, 2006/court case/show cause/direction if any, related to the project under consideration shall be furnished;

A. Summary of Court Cases: Nil

B. Summary of Show Cause Notices: There are no Show Cause Notices pertaining to Environment & Forest.

C. Summary of violation:

Any violation case pertaining to the project on following: i. The Environment Protection Act, 1986 ii. Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980. iii. The Wildlife (Protection) Act, 1972	
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34.2.7: Details of Expenditure towards Issues raised in Public Hearing held on 07.12.2005 - Certified by IRO, MoEF&CC

S. No.	Issues raised during Public Hearing	Compliance	Capital Expenditure (Rs. in Cr.)	Avg. Recurring Expenditure per year (Rs. in Cr.)
01	Desalination plant should be provided as proposed to meet out the entire water requirement of the new project.	Complied	162.89	2.14
0	The unit should provide adequate Air pollution control	Complied	3.43	0.36

S. No.	Issues raised during Public Hearing	Compliance	Capital Expenditure (Rs. in Cr.)	Avg. Recurring Expenditure per year (Rs. in Cr.)
2	Control measures so as to satisfy the AAQ and emission standards prescribed.			
03	The unit should provide adequate ETP to treat the trade effluent generated from various sources.	Complied	0.69	0.022
04	The unit should ensure that the entire quantity of treated trade effluent is used for gardening / green belt development.	Complied	0.1088	
05	All the construction activities proposed by the unit should comply with the regulations contained in the CRZ Notification, 1991.	Complied		
06	The entire quantity of fly ash generated should be sold out to cement industries and other user industries and sufficient/ adequate storage silos should be provided for ensuring this.	Complied	17.05	1.2
07	The bottom ash generated should not be mixed with sea water and it should be mixed only with the treated trade effluent and the unit should explore the possibility of selling this bottom ash also to other user industries.	Complied	3.26	1.17
08	Periodic monitoring of sea water quality in the vicinity should be carried out to assess the presence of heavy metals, if any, in the sea water.	Complied		0.027
09	The unit should comply with the provisions of all the existing environmental laws as applicable to the unit.	Complied		
10	Employment opportunities should be given to local fishermen in the new project.	Complied		
11	The grievances of the fishermen and local people as presented above should be kept in mind by the project authorities while implementing the project.	Complied		
12	Fly Ash Bricks should be used in the Construction of this project.	Complied		
TOTAL (Rs. in Cr.)			187.32	5.00

Details of CSR Expenditure:

S. No.	Financial Year	To be spent as per Companies Act	Spent/ Sanctioned (Rs. in Lakhs)	Remarks
01	2013-14	0.00	20.76	For Environmental Sustainability (Green belt and plantation from Roundana -TTPS - VOC Port)
02	2014-15	0.00	25.00	Contribution to KMTCF tiger reserve for protection of flora and fauna.
03	2015-16	0.00	24.30	Providing Benches & Desks to Govt. Schools of Thoothukudi for Promoting Education.
04	2016-17	0.00	46.93	
05	2017-18	0.00	143.76	Construction of compound wall in Govt. schools & ITI and plantation near township and VOC Port
06	2018-19	55.88	177.75	Undertaken various schemes under Environmental Sustainability, providing safe drinking water and cyclone relief/Disaster management
07	2020	519.60	519.60	Undertaken various schemes under Promoting Education, Environmental Sustainability and Promoting Health care.

S. N o.	Fi n a n c i a l Y e a r	To be spent as p er Companies A ct	Spent/ Sanctio ned (Rs. in Lakhs)	Remarks
	19-20			
08	2020-21	580.70	580.70	Undertaken various schemes under Environmental Sustainability, Training to promote rural sports and Rural development projects.
09	2021-22	808.65	808.65	Undertaken various schemes under Environmental Sustainability, providing safe drinking water and cyclone relief/Disaster management
10	2022-23	744.41	744.41	Undertaken various schemes under Promoting health care, Promoting Education and Women empowerment
11	2023-24	882.09	882.09	Undertaken various schemes under Promoting health care, Environmental Sustainability, Promoting Education and Community Development
12	2024-25	642.19	574.36	Undertaken various schemes under Promoting Sports & Education, Environmental Sustainability and Health care, Construction of OHTs etc.
13	2025-	1180.19	59.05	Undertaken various schemes under Environmental Sustainability, Training to promote rural sports and Rural development projects, Installation of RO plants etc.

S. No.	Financial Year	To be spent as per Companies Act	Spent/ Sanctioned (Rs. in Lakhs)	Remarks
	26			
Total		5413.71	4607.36	

3.2.3. Deliberations by the committee in previous meetings

Date of EAC 1 :19/06/2023

Deliberations of EAC 1 :

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.

Date of EAC 2 :04/09/2023

Deliberations of EAC 2 :

The proposal is for amendment in Environmental Clearance 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 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, 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.

3.2.4. Deliberations by the EAC in current meetings**Observations and deliberations of the Committee:****34.2.8: The EAC observed and noted the following:****Recommendations of the Committee:**

34.2.9: In view of the foregoing and after the detailed deliberations, the Committee recommended the instant proposal for grant of amendment in the EC dated 13/06/2007 as detailed below. All other terms and conditions prescribed in EC letter dated 13/06/2007 and 11.01.2013 shall remain unchanged:

Sr. No.	Condition No. / Details of Conditions as per EC dated 13/06/2007 and 11.01.2013	Amendment Sought	Recommendation of EAC
1.	Additional Condition No. (xxxiv) "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."	EC Condition no. (xxxiv) in said stipulation may be deleted.	The committee recommended the amending the condition as follows: "An amount of Rs.5.0 Crores shall be earmarked annually for recurring expenditure to carry out the CER activities against addressing concerned during Public Hearing (PH). Compliance status in this regard shall be submitted to the concerned Regional Office of MoEF&CC along with the six monthly compliance report."

3.2.5. Recommendation of EAC

3.2.6. Details of Environment Conditions

3.2.6.1. Specific

All the other terms and conditions of previously granted ECs and their amendments shall be remain unchanged.

1.	All the other terms and conditions of previously granted ECs and their amendments shall be remain unchanged.
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3.3. Agenda Item No 3:

3.3.1. Details of the proposal

2x685 MW Super Critical and 2x800 MW Ultra-Super Critical Thermal Power Plant by M/s. Adani Power Limited, Raipur located at CSIDC Industrial area in Tilda Block, Raipur District, Chhattisgarh Reg. – Request for Amendment in Specific Condition No. xxxii & xxxiii of Environment Clearance (EC) by Adani Power Limited located at RAIPUR, CHHATTISGARH			
Proposal For		Amendment in EC	
Proposal No	File No	Submission Date	Activity Sub-Activity (Schedule Item)
IA/CG/THE/522435/2025	J-13012/62/2008-IA.II(T)	27/11/2025	Thermal Power Plants Coal/Lignite based plants (1(d))

3.3.2. Project Salient Features

Agenda item No.: 34.3

34.3: 2x685 MW Super Critical and 2x800 MW Ultra-Super Critical Thermal Power Plant by **M/s. Adani Power Limited**, Raipur located at Village Chicholi, Raikheda, Galtara, and CSIDC Industrial area in Tilda Block, **Raipur District, Chhattisgarh – Amendment in Environmental Clearance (EC) – regarding.**

[Proposal No: IA/CG/THE/522435/2025; J-13012/62/2008-IA.II(T)]

34.3.1: M/s. Adani Power Limited, Raipur has made an online application vide proposal no. **IA/CG/THE/522435/2025** dated 27.11.2025 along with Form 4 seeking amendment in Environmental Clearance granted by Ministry vide letter no. J-13012/62/2008-IA. II (T) dated 09.05.2011 and subsequent amendments in the EC dated 13.06.2013, 18.11.2014, 04.02.2015 & 09.12.2015, EC transferred dated 24.04.2023 for 1370 (2x685) MW (Phase- I, Operational), and EC dated 01.11.2024 for 1600 (2x800) MW (Phase- II, Under Construction) under the provisions of the EIA Notification, 2006, for the Raipur TPP.

Details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meeting, are given as under:

34.3.2: The Existing project of 1370 (2x685) MW was granted Environmental Clearance from Ministry vide letter no. J-13012/62/2008-IA. II (T) dated 09.05.2011 and subsequent amendments in the EC dated 13.06.2013, 18.11.2014, 04.02.2015 & 09.12.2015, EC

transferred dated 24.04.2023 for 1370 (2x685) MW (Phase- I, Operational) and EC dated 01.11.2024 for 1600 (2x800) MW (Phase- II, Under Construction) for Raipur TPP.

34.3.3: The Implementation status of the existing EC is as follows:

S. No.	Product	As per EC Phase-I dated 09.05.2011, subsequent EC amendments dated 13.06.2013, 18.11.2014, 04.02.2015 & 09.12.2015, EC transfer 24.04.2023, & EC Phase-II dated 01.11.2024	As per CTO dated 11.03.2025 has validity till 31.03.2028	Balance Quantity
1.1.	Electricity Generation	2970 MW [Phase – I: 1370 MW (2x685 MW) & Phase-II: 1600 (2x800 MW)]	1370 MW (CTO obtained vide consent order no. 11738 /TS/C ECB/2025 Nava Raipur Atal Nagar, Raipur dated 11.03.2025 has validity till 31.03.2028)	1600 MW (2x800 MW) Is Under Construction.

34.3.4: Compliance status to the EC Conditions: The CCR received from IRO, MoEF&CC Raipur, vide file no. 4-11/2013(Env)/125 dated 16.08.2024 & updated CCR vide no. 4-11/2013(Env)/135 dated 13.09.2024. The Action Taken Report (ATR) submitted by APL upon the observations made by RO vide letter no. APL/Raipur TPP/ENV/2024-25/185 dated 24.08.2024 to MoEF&CC.

34.3.5: The details of the condition for which amendment is sought and justification for the same is as follows:

Condition s/ points/ S. No. of EC dated 13.06.2013	Details of Conditions as per Existing EC conditions	Amendment Sought	Justification for amendment
Specific Conditions (xxxii):	<i>"A long-term study of radio activity and heavy metals contents on coal to be used shall be carried out through a reputed institute. Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place".</i>	<i>A long-term study of radioactivity and heavy metals contents on coal to be used shall be carried out through a reputed institute.</i> Proposed to Omit – <i>Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.</i>	In compliance to the stipulated condition periodically radioactivity analysis in Coal and Ash samples are being carried out on regular basis through a reputed institute "Department of Atomic Energy, Board of Radiation and Isotope Technology (BRIT)" Government of India. For Coal and Ash, heavy metal analysis is being carried out through NABL accreditation Laboratory and reports are being submitted periodically with Six monthly EC compliance report to MoEF&CC, CPCB and CECB. Justification for Omit: For provision of Inbuilt mechanism for Continuous monitoring for radioactivity and heavy metals in coal and fly ash (including

Condition s/ points/ S. No. of EC dated 13. 06.2013	Details of Conditions as per Existing EC conditions	Amendment Sought	Justification for amendment
			bottom ash), the technology and monitoring instruments for in-built are not available with the suppliers in the Country and is also technically not feasible to monitor in this mechanism.
Specific Conditions (xxxiii):	<i>Continuous monitoring for heavy metals in and around the ash pond area shall be carried out through reputed institutes like IIT, Kanpur and records/data maintained.</i>	<i>“Periodic” monitoring for heavy metals in and around the ash pond area shall be carried out through reputed institutes like IIT, Kanpur and records/data maintained.</i>	Justification for Amendment – For provision of Continuous In built mechanism for monitoring for heavy metals in and around the ash pond area, the technology and monitoring instruments are not available with the suppliers in the Country and is also technically not feasible to monitor in this mechanism.

Justification for the Proposed EC amendment:

In compliance to the stipulated condition periodically radioactivity analysis in Coal and Ash samples are being carried out on regular basis through a reputed institute “Department of Atomic Energy, Board of Radiation and Isotope Technology (BRIT)” Government of India. For Coal and Ash, heavy metal analysis is being carried out through NABL accreditation Laboratory and reports are being submitted periodically with Six monthly EC compliance report to MoEFCC, CPCB and CECB.

For provision of Inbuilt mechanism for Continuous monitoring for radioactivity and heavy metals in coal and fly ash (including bottom ash), the technology and monitoring instruments are not available with the suppliers in the Country and is also technically not feasible to monitor in this mechanism.

34.3.6: Summary of violation under EIA, 2006/court case/show cause/direction if any, related to the project under consideration shall be furnished;

A. Summary of Court Cases: Nil

B. Summary of Show Cause Notices: There are no Show Cause Notices pertaining to Environment & Forest.

C. Summary of violation:

Any violation case pertaining to the project on following: i. The Environment Protection Act, 1986 ii. Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980. iii. The Wildlife (Protection) Act, 1972	
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3.3.3. Deliberations by the committee in previous meetings

N/A

3.3.4. Deliberations by the EAC in current meetings

Observations and deliberations of the Committee:

34.3.7: The EAC observed and noted the following:

Recommendations of the Committee:

34.3.8: In view of the foregoing and after the detailed deliberations, the Committee recommended the instant proposal for grant of amendment in the EC dated 13.06.2013 as detailed below. All other terms and conditions prescribed in EC letters dated 09.05.2011 and subsequent amendments in the EC dated 13.06.2013, 18.11.2014, 04.02.2015, 09.12.2015, 24.04.2023 for phase-I (2x685MW), and EC dated 01.11.2024 for Phase-II (2x800MW) shall remain unchanged:

Conditions/ Points/ S. No. of EC dated 13.06. 2013	Details of Conditions as per Existing EC conditions	Recommendation of the EAC
Specific Conditions (xxxii):	<i>"A long-term study of radio activity and heavy metals contents on coal to be used shall be carried out through a reputed institute. Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place".</i>	Agreed. EAC recommended to modify this condition as below: <i>A long-term study of radioactivity and heavy metals contents on coal to be used shall be carried out through a reputed institute/or organisation.</i>
Specific Conditions (xxxiii):	<i>"Continuous monitoring for heavy metals in and around the ash pond area shall be carried out through reputed institutes like IIT, Kanpur and records/data maintained"</i>	Agreed. EAC recommended to modify this condition as below: <i>"Periodic" monitoring for heavy metals in and around the ash pond area shall be carried out through reputed institutes like IIT, Kanpur and records/data be maintained.</i>

3.3.5. Recommendation of EAC

Recommended

3.3.6. Details of Environment Conditions

3.3.6.1. Specific

All the other terms and conditions of previously granted ECs and their amendments shall be remain unchanged.

1. All the other terms and conditions of previously granted ECs and their amendments shall be remain unchanged.

4. Any Other Item(s)

N/A

5. List of Attendees

Sr. No.	Name	Designation	Email ID	Remarks
1	Dr Santoshkumar Hampannavar	Member (EAC)	san*****@yahoo.com	Absent
2	Shri K B Biswas	Member (EAC)	bis*****@gmail.com	Present
3	Shri Mahi Pal Singh	Member (EAC)	mps*****@nic.in	Present
4	Sundar Ramanathan	Scientist - F	r.s*****@nic.in	Present
5	Sh Inder Pal Singh Matharu IFS	Chairman, EAC	mat*****@gmail.com	Present
6	Sh Lalit Kapur	Member (EAC)	lka*****@yahoo.com	Present
7	Dr Umesh Jagannathrao Kahalekar	Member (EAC)	uka*****@gmail.com	Absent
8	Sh Savalge Chandrasekhar	Member (EAC)	sav*****@gmail.com	Present
9	Prof Shyam Shanker Singh	Member (EAC)	sin*****@gmail.com	Present
10	Dr Vinod Agrawal	Member (EAC)	vin*****@yahoo.com	Present
11	Shri Harmeet Sahaney	Member (EAC)	har*****@imd.gov.in	Absent
12	Prof R M Bhattacharjee	Member (EAC)	rmb*****@iitism.ac.in	Absent
13	Shri Prasoon Gargava	Scientist F	pra*****@nic.in	Absent

**Ministry of Environment, Forest and Climate Change
Impact Assessment Division
(Thermal sector)**

Date of zero draft MoM sent to Chairman: 18/12/2025

Approval by Chairman: 21/12/2025

Uploading on PARIVESH: 22/12/2025

SUMMARY RECORD OF THE THIRTY FOURTH (34th) MEETING OF EXPERT APPRAISAL COMMITTEE (EAC) HELD ON 9TH DECEMBER, 2025 FOR ENVIRONMENT APPRAISAL OF THERMAL SECTOR PROJECTS THROUGH VIRTUAL MODE.

9th December, 2025 [Tuesday]

At the outset, Shri. Inder Pal Singh Matharu (I.F.S Retd.), Chairman, Expert Appraisal Committee (Thermal Power & Coal Mining) welcomed the Expert members & other participants and requested to start the proceeding as per the agenda listed for this meeting. The list of EAC members who participated in the meeting is at **Annexure – I**.

Confirmation of the Minutes of the 33rd Meeting of the EAC (Thermal): The minutes of the 33rd Meeting of the EAC (Thermal) held on 19th November, 2025 has been confirmed by the EAC as uploaded on PARIVESH.

Agenda No 34.1

34.1: 2x800 MW (Expansion, Stage-II) Coal Based Lara Super Thermal Power Project by **M/s NTPC Ltd.**, located at villages Armuda, Chhapora, Bodajhariya, Mahloi, Riyapalli, Kandagarh, Jhilgitar, Devalpura, Ghutkupali, Thengapali, Lara in Tehsil Pussore, District Raigarh and Village Saradih in Tehsil Dabhara, District Sakti, Chhattisgarh – **Amendment in Environmental Clearance (EC) – regarding.**

[Proposal No: IA/CG/THE/556965/2025; F. No. J-13012/11/2018-IA.I (T)]

34.1.1: M/s. NTPC Limited has made an online application vide proposal no. **IA/CG/THE/556965/2025** dated **11.11.2025** along with Form-4 and sought for amendment in Environmental Clearance (EC) accorded by the Ministry vide File No: J-13012/11/2018-IA.I (T) dated 17.07.2023 under the provisions of the EIA notification, 2006 for the project mentioned above.

Details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meeting, are given as under:

34.1.2: The existing project of “2x800 MW (Expansion, Stage-II) Coal Based Lara Super Thermal Power Project at villages Armuda, Chhapora, Bodajhariya, Mahloi, Riyapalli, Kandagarh, Jhilgitar, Devalpura, Ghutkupali, Thengapali, Lara in Tehsil Pussore, District Raigarh and Village Saradih in Tehsil Dabhara, District Sakti, Chhattisgarh” was granted Environment Clearance from the Ministry vide File No: J-13012/11/2018-IA.I (T) dated 17.07.2023 for construction and operation of the above said project. Consent to Establish for Lara STPP Stage-II was accorded by Chhattisgarh Environment Conservation Board, Raipur,

(C.G.) vide No 3168/TS/CECB/2024 dated 12.07.2024. The validity of CTE is up to 11.07.2029.

34.1.3: The implementation status of the existing EC is as follows: Lara Stage-II Project is under construction

Sr. No.	Product	As per EC dated 17.07.2023	As per CTE dated 12.07.2024	Presens status
1	Electricity	2X800 MW	2X800 MW	Under construction

34.1.4: Compliance status to the Lara Stage-II (2x800MW) EC conditions (dated 17.07.2023):

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
General Instructions:			
1	7	The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.	Being complied.
2	8	The Project Proponent is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.	Being complied.
3	10(a)	The project proponent shall prominently advertise it in at least two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.	Complied. Kelo Pravah: 21.07.2023 Times of India: 21.07.2023 Dainik Bhaskar: 21.07.2023 Copy submitted
4	10(b)	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Complied
5	10(c)	The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions.	Complied
6	10(d)	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during Operational phase) shall be prepared. The year wise funds	Detailed document submitted to IRO, MoEF&CC, Raipur.

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
		earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.	
7	10(e)	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted for compliance.
8	10(f)	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Noted for compliance.
9	10(g)	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.
Special EC Conditions:			
1. Miscellaneous			
10	1.1 (xxxii)	Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	Complied. An application for Consent to Establish was submitted to Chhattisgarh Environment Conservation Board, Raipur on 25.09.2023 & Consent to Establish has been granted to NTPC Lara stage-II on 12.07.2024, CTE (consent To Establishment) No. 3168/TS/CECB/2024
11	1.1 (xxxii)	All necessary clearance from the concerned Authority, as may be applicable should be obtained prior to commencement of project or activity.	Complied, CTE received.
2. Socio-economic			
12	2.1 (xxiv)	Public grievance redressal system shall be established under supervision of project head. The functioning of the system shall be reviewed every month.	Complied; Copy of Public grievance redressal system record register attached as Annexure-VI.
13	2.1 (xxv)	A vision document comprising prospective plan for implementation of various CER activities, plantation programme outside the project cover area, rejuvenation and conservation of water bodies within 5 km radius of the project cover area, creation of sacred groves etc. shall be prepared and submitted to the Regional Office of the Ministry within 6 months. Implementation status of the same shall be reported to the regional office in 6 monthly compliance report.	Vision document submitted to IRO, MoEF&CC, Raipur.
14	2.1 (xxvi)	Epidemiological Study among population within 5 km radius of project cover area shall be carried out on regular interval (Once in two year) through independent agency. Necessary measures shall be	Shall be complied. The process of tendering has started.

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
		taken as per findings of study in consultation with district administration. Action taken report shall be submitted to the Regional Office of the Ministry.	
15	2.1 (xxvii)	The Project Proponent shall submit the time- bound action plan to the concerned regional office of the Ministry within 6 months from the date of issuance of Environmental Clearance for undertaking the CER activities, committed during public consultation by the project proponent and as discussed by the EAC, in terms of the provisions of the MoEF&CC Office Memorandum No.22-65/2017-IA.III dated 30 September 2020. The action plan shall be implemented within three years of commencement of the project.	Detailed document submitted to IRO, MoEF&CC, Raipur.
16	2.1 (xxviii)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Being complied.
17	2.1 (xxix)	As committed, a multi-specialty Hospital with 100 beds shall be established to cater the need of population living within 10 km.	<p>Budget was allocated & budget approved for multi-specialty hospital with 100 beds. Agreement was signed and an advance of Rs. 20.01 Crore was transferred for the same. NTPC Lara has consistently extended financial support for strengthening healthcare facilities in the region.</p> <ol style="list-style-type: none"> 1. An amount of ₹50 Crores has been provided to Raigarh Medical College for the upgradation of infrastructure and installation of latest medical equipment, thereby ensuring modern facilities, improved amenities, and enhanced medical capacity for the local population. 2. In addition, NTPC Lara has extended a grant of ₹35.53 Crores to Akhil Bharatiya Vanvasi Kalyan Ashram Hospital, Jashpur for expansion and enhancement of healthcare services in tribal and rural areas. These contributions highlight NTPC Lara's commitment towards improving healthcare access and quality, while reinforcing its role as a reliable partner in regional development and welfare. 3. Memorandum of Agreement (MoA) was signed between District Administration, Raigarh & M/s NTPC Lara for the establishment of the 100

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
			<p>bedded Multi specialty hospital in tehsil Pussore, Raigarh District (CG) but was cancelled by the district administration.</p> <p>4. District Administration (CSR Branch), Raigarh, Chhattisgarh has given a letter to NTPC Lara (Letter No. GENS/2799/2025-COLL RGH CSR SEC/191, dated. 08.09.2025) & it has asked NTPC Lara to provide Rs. 29.99 Crore for “Kelo River Conservation & Rejuvenation Project”. NTPC Lara has already provided 20.01 Crore for 100 bed hospital, which shall be adjusted to Kelo River Conservation & Rejuvenation as per the letter received from District Administration & the remaining amount, which is Rs. 9.98 Crore has been asked to provide.</p>
18	2.1 (xxx)	The establishment of a robust grievance redressal mechanism to address concerns and complaints from local communities regarding the power plant's operations, environmental impacts, or social issues shall be developed. A Senior Officer shall review the functioning	Being complied; system in place as well.
3. Environmental Management			
19	3.1(i)	As already committed by the project proponent, Zero Liquid Discharge shall be ensured, and no waste/treated water shall be discharged outside the premises.	It is already incorporated as an inherent feature at design level itself. Same shall be complied.
20	3.1(ii)	Peripheral Green belt (Three row plantation) with Miyawaki plantation technique of 15 m thickness along the plant boundary shall be developed with more than 90% survival rate of the plant species. It would be ensured that total 33% area of total project cover area is under green cover focusing on Ash Dyke area.	Plant erection activities are in progress. Same shall be complied after completion of same to avoid casualty of plantation.
21	3.1(iii)	<p>Extensive green cover within 2 km range of the plant boundary shall be developed.</p> <p>An action plan in this regard to be prepared in consultation with CPCB/expert institution and submitted before the Regional Office of the Ministry within 3 months.</p>	<p>DFO Raigarh has been requested for land/ degraded forest availability. (Letter Date: 21.10.2023)</p> <p>NTPC Lara has planted 50,000 trees in this monsoon season (FY 2025-26).</p> <p>Station is hunting for nearest area possible for plantation. Contract with CGRVNL (Chhattisgarh Rajya Van Vikas Nigam Limited (A State Public sector unit having</p>

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
			expertise in the field of plantation in the state of Chhattisgarh) is in place for plantation.
22	3.1(iv)	<p>24X7 online monitoring system for ambient air quality shall be established with its connectivity with SPCB and CPCB server. Stack monitoring shall be done through 24X7 online monitoring system.</p> <p>The emission Standards for Municipal Solid Waste based Thermal Power Plants as per Municipal Solid Waste Rules, 2016 dated 8.4.2016 (S.O. 1357 (E)) shall be complied (Refer Part C of Schedule II of Municipal Solid Waste Rules, 2016 dated 8.4.2016 (S.O. 1357 (E))).</p>	<p>In Compliance. AAQMS data is submitted.</p> <p>For Stack Monitoring, shall be complied during operational Phase.</p> <p>Not Applicable</p> <p>Proposed Lara stage-II is coal-based Thermal Power Plant and shall not use Municipal Solid Waste.</p>
23	3.1(v)	<p>Adequate dust extraction system such as cyclones/bag filters and water spray system in dusty areas such as waste delivery points, transfer areas and other vulnerable dusty areas shall be provided along with an environment friendly sludge disposal system.</p> <p>Water Sprinkling on roads shall be done in every 6 hours in winter season and 3 hours in summer season of roads within 1 km range approaching the plant. A logbook shall be maintained for the activity and be in six-monthly compliance report.</p>	<p>Incorporated in design & same shall be complied during operational phase.</p> <p>Being complied; copy of Logbook submitted.</p>
24	3.1(vi)	LED display of air quality (Continuous Online monitoring) shall be installed on the roadside (within 1 km range) and nearby hotspots viz. residential colony, Schools Hospitals; maintenance of devices shall be done on regular basis.	<p>Presently data is being displayed on the main gate of the Plant & lobby of the administrative building.</p> <p>Proposal for three additional display board is in advance stage of tendering & the same shall be installed at three more location accessible to local public.</p>
25	3.1(vii)	Everyday cleaning of road/Paved roads within 1 km range of plant site shall be ensured throughout the year through vacuum-based vehicle.	<p>Complied.</p> <p>Work awarded. Vehicle shall be deployed by first week of December 2025.</p> <p>Manual cleaning by deploying labour is in progress.</p>
26	3.1(viii)	Environment Audit of plant shall be done annually, and report shall be submitted to regional office of the Ministry.	Shall be complied during the operation phase of the plant.
27	3.1(ix)	Project proponent shall explore the use of treated sewage water from the Sewage Treatment Plant of Municipality / local bodies/ similar organization located within 50km radius of the proposed power project to minimize the water drawl from surface water bodies.	<p>Noted for compliance.</p> <p>As per the guidelines laid down in para 6.4 & 6.6 of the Office Memorandum dated 21st September 2020, Ministry of Power, Treated Sewage Water from the STP of Municipality/ local bodies</p> <p>Use of treated water from Raigarh STPs may not possible due to the following reasons:</p>

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
			<p>(A) Raigarh STP (Existing - 7 MLD capacity)</p> <ul style="list-style-type: none"> The STP and NTPC Lara are located on opposite banks of River Kelo, posing a significant logistical constraint. The production capacity of the STP is less than 30% of NTPC Lara's cooling water requirement. <p>(B) Raigarh STP (Existing — 25 MLD capacity)</p> <p>From an environmental and water conservation perspective, it would be prudent that treated sewage water from this STP be utilized by the nearest thermal power plants (TPPs), thereby minimizing capital expenditure on pipeline length and reducing the lifetime carbon footprint of pumping operations. NTPC Lara is not in the priority zone as per vicinity; several other TPPs are located much closer to the STP.</p>
28	3.1(x)	A detailed action plan regarding leachate handling shall be prepared and implemented in consultation with SPCB and the same shall be submitted to the Regional Office of the Ministry. Zero liquid discharge shall be adopted. Leachate shall be treated and reused. No treated leachate shall be discharged in any circumstances. Characteristics of Leachate and the treated Leachate shall be monitored once in quarter and records shall be maintained.	Shall be complied during the operation phase of the plant.
29	3.1(xi)	Oil and grease recovered from the treatment plant should be disposed only through authorized recyclers.	Shall be complied during operational phase.
30	3.1(xii)	Harnessing solar power within the premises of the plant particularly at available roof tops shall be carried out and status of implementation including actual generation of solar power shall be submitted along with half yearly monitoring report.	Included in the EPC package for feasibility & execution, awarded to M/s BHEL & same shall be executed after construction of all buildings of stage-II area. Actual generation shall be submitted after installation of the same. 440 kW of roof top solar in Township commissioned & operational. Additional capacity of 340 kW roof solar and 1100 kW on ground is awarded.
31	3.1(xiii)	Fly ash handling shall be done strictly as per extent rules/regulations of the Ministry/CPCB issued from time to time including Ministry's Notification No. S.O.5481(E) dated 31st December,2021. No coal	Shall be complied during the operation phase of the plant.

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
		shall be transported through road shall be allowed.	
32	3.1(xiv)	Monitoring of surface water quality and Ground Water quality shall also be regularly conducted, and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall also be undertaken and results/findings submitted along with half yearly monitoring report.	Being monitored;
33	3.1(xv)	A well-designed rainwater harvesting system shall be put in place within six months, which shall comprise of rainwater collection from the built up and open area in the plant premises and detailed record kept of the quantity of water harvested every year and its use.	Design and construction included in the main package and same shall be implemented after completion of construction activities. Details for record and quantity of water harvested every year along with its use shall be submitted after implementation.
34	3.1(xvi)	No water bodies including natural drainage system in the area shall be disturbed due to activities associated with the setting up/ operation of the power plant. A list of all small and large water bodies shall be prepared after physical survey within 10 km radius of the project. A detailed conservation plan for all these water bodies shall be prepared and submitted before the Regional Office of the Ministry within 3 months. Implementation status of conservation plan be submitted in 6 monthly compliance report.	A Purchase Order (PO) (PO No. 5500045236) dated 09.03.2024 has been awarded by NTPC Lara to Guru Ghasidas Vishwavidyalaya, Bilaspur. The study work is under progress.
35	3.1(xvii)	Watershed development plan shall be prepared and implemented focusing on micro watershed development within 10 km radius of the project. Action taken report in this regard be submitted before regional office of the Ministry in 6 monthly compliance report.	Shall be complied. Water Resource Department, Raigarh, Chhattisgarh state government has been requested vide letter dated. 08.12.2023 for possibility & estimate for the same. Water Resource Department, Raigarh, Chhattisgarh state government has requested vide letter dated. 09.06.2025 for 6.1031 Crore for the water conservation structures in 9 villages of Pussore Development Block. (Copy submitted)
36	3.1(xviii)	A detailed ecological monitoring and survey covering forestry, fisheries, wildlife and its habitat shall be done once in two years to assess the impacts of project on the local environment and ecology. Monitoring report shall be uploaded on the PARIVESH Portal and a copy of the same be submitted to the regional office of MoEF&CC.	A Purchase Order (PO) (PO No. 5500045236) dated 09.03.2024 has been awarded by NTPC Lara to Guru Ghasidas Vishwavidyalaya, Bilaspur for the monitoring & survey covering forestry, fisheries, wildlife & its

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			habitat. The study work is under progress. The report shall be uploaded on the PARIVESH portal on completion of the study done by Guru Ghasidas Vishwavidyalaya, Bilaspur.
37	3.1(xix)	For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	Complied for DG deployed for construction activities. Shall be complied in all DG sets at the time of installation of Main plant & ancillary activities.
38	3.1(xx)	An Environmental Cell headed by the Environment Manager with postgraduate qualification in environmental science/environmental engineering, shall be created. It shall be ensured that the Head of the Cell shall directly report to the Head of the Plant who would be accountable for implementation of environmental regulations and social impact improvement/mitigation measures.	In Compliance.
39	3.1(xxi)	The unit shall make the arrangement for protection of possible fire hazards during the manufacturing process in material handling. The firefighting system shall be as per the norms.	Being complied.
40	3.1(xxii)	The energy sources for lighting purposes shall preferably be LED based.	Being complied.
41	3.1(xxiii)	Explore desulphurization from biotechnological method.	Shall be complied.
Standard EC Conditions			
1. Statutory compliance			
42	1.1	Emission Standards for Thermal Power Plants as per Ministry's Notification S.O. 3305(E) dated 7.12.2015, G.S.R.593(E) dated 28.6.2018 and as amended from time to time shall be complied.	Incorporated in EPC package. Same shall be complied.
43	1.2	Part C of Schedule II of Municipal Solid Wastes Rules, 2016 dated 08.04.2016 as amended from time to time shall be complied for power plants based on Municipal Solid Waste.	Lara stage-II (under erection) is a coal-based Thermal Power Plant and shall not use Municipal Solid Waste.
44	1.3	MoEF&CC Notification G.S.R 02(E) dated 2.1.2014 as amended from time to time regarding use of raw or blended or beneficiated/washed coal with ash content not exceeding 34% shall be complied with, as applicable.	Shall be complied during the operation phase of the plant.
45	1.4	MoEF&CC Notifications on Fly Ash Utilization S.O. 763(E) dated 14.09.1999, S.O. 979(E) dated 27.08.2003, S.O. 2804(E) dated 3.11.2009, S.O. 254(E) dated 25.01.2016 as amended from time to time shall be complied.	Shall be complied during the operation phase of the plant.
46	1.5	Thermal Power Plants other than the power plants located on coast and using sea water for cooling purposes, shall achieve specific water consumption of 2.5 m ³ /MWh and Zero effluent discharge.	MoEF&CC notification dated 07.12.2015 and its amendment dated 28.06.2018 envisages a limit of 3.0 m ³ /MWh.
47	1.6	The recommendation from the Standing Committee of NBWL under the Wildlife (Protection) Act, 1972 should be obtained, if applicable.	Not applicable.
48	1.7	No Objection Certificate from Ministry of Civil Aviation be obtained for installation of requisite	In Compliance. No Objection Certificate obtained

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		chimney height and its siting criteria for height clearance.	vide ref no. RAIG/EAST/B/040622/664574 dated 17.05.2022. from Ministry of Civil Aviation for installation of requisite chimney height. Copy submitted.
49	1.8	Groundwater shall not be drawn during construction of the project. In case, groundwater is drawn during construction, necessary permission be obtained from CGWA.	Complied. No ground water is being drawn for any purpose.
2. Ash content/mode of transportation of coal			
50	2.1	EC is given on the basis of assumption of ____% of ash content and ____km distance of transportation in rail/road/conveyor/any other mode. Any increase of % ash content by more than 1 percent, and/or any change in transportation mode or increase in the transport distance (except for rail) require application for modifications of EC conditions after conducting the 'incremental impact assessment' and proposal for mitigation measures.	Shall be complied.
3. Air quality monitoring and Management			
51	3.1	Flue Gas Desulphurization System shall be installed based on Lime/Ammonia dosing to capture Sulphur in the flue gases to meet the SO ₂ emissions standard of 100 mg/Nm ³ .	NTPC Lara is under 'Category-C' as per the MoEF&CC Notification vide, dated. 31.03.2021 and its amendment thereof; further SO ₂ emission limit from Thermal Power Plant (TPPs) under Category-C is exempted as per MoEF&CC notification vide, dated. 11.07.2025.
52	3.2	Selective Catalytic Reduction (SCR) system or the Selective Non-Catalytic Reduction (SNCR) system or Low NO _x Burners with Over Fired Air (OFA) system shall be installed to achieve NO _x emission standard of 100 mg/Nm ³ .	Shall be complied during operational phase.
53	3.3	High efficiency Electrostatic Precipitators (ESPs) shall be installed in each unit to ensure that particulate matter (PM) emission to meet the stipulated standards of 30 mg/Nm ³ .	Shall be complied during operational phase.
54	3.4	Stacks of prescribed height ____m shall be provided with continuous online monitoring instruments for SO _x , NO _x and Particulate Matter as per extant rules.	Shall be complied during operational phase.
55	3.5	Exit velocity of flue gases shall not be less than 20-25 m/s. Mercury emissions from stack shall also be monitored periodically.	Shall be complied during operational phase.
56	3.6	Continuous Ambient Air Quality monitoring system shall be set up to monitor common/criteria pollutants from the flue gases such as PM10, PM2.5, SO ₂ , NO _x within the plant area at least at one location. The monitoring of other locations (at least three locations outside the plant area covering upwind and downwind directions at an angle of 120° each) shall be carried out manually.	Continuous Ambient Air Quality monitoring system has been installed within the plant premises.
57	3.7	Adequate dust extraction/suppression system shall	Already incorporated in

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		be installed in coal handling, ash handling areas and material transfer points to control fugitive emissions.	engineering & work awarded to M/s BHEL for the execution of the same. Shall be complied at the time of operation of the facilities.
58	3.8	Appropriate Air Pollution Control measures (DEs/DSs) be provided at all the dust generating sources including sufficient water sprinkling arrangements at various locations viz., roads, excavation sites, crusher plants, transfer points, loading and unloading areas, etc.	Already incorporated in engineering & work awarded to M/s BHEL for the execution of the same. Shall be complied at the time of operation of the facilities.
		4. Noise Pollution and its control measures	
59	4.1	The Ambient Noise levels shall meet the standards prescribed as per the Noise Pollution (Regulation and Control) Rules, 2000.	Shall be complied.
60	4.2	Persons exposed to high noise generating equipment shall use Personal Protective Equipment (PPE) like earplugs/earmuffs, etc.	Shall be complied.
61	4.3	Periodical medical examination on hearing loss shall be carried out for all the workers and maintain audiometric record and for treatment of any hearing loss including rotating to non-noisy/less noisy areas.	Being complied during construction phase. Noted for compliance during operational phase.
		5. Human Health Environment	
62	5.1	Bi-annual Health check-up of all the workers is to be conducted. The study shall take into account of chronic exposure to noise which may lead to adverse effects like increase in heart rate and blood pressure, hypertension and peripheral vasoconstriction and thus increased peripheral vascular resistance. Similarly, the study shall also assess the health impacts due to air polluting agents.	Annual Health check-up for all the workers is mandatory and the same is being ensured during construction phase as well.
63	5.2	Baseline health status within study area shall be assessed and report be prepared. Mitigation measures should be taken to address the endemic diseases.	Being complied.
64	5.3	Impact of operation of power plant on agricultural crops, large water bodies (as applicable) once in two years by engaging an institute of repute. The study shall also include impact due to heavy metals associated with emission from power plant.	Shall be complied during operational phase.
65	5.4	Sewage Treatment Plant shall be provided for domestic wastewater.	For Residential area, STP is operational. In the plant area of Stage-II, work for 75 KLD capacity is awarded to M/s BHEL. Shall be complied.
		6. Water quality monitoring & Management	
66	6.1	Induced/Natural draft closed cycle wet cooling system including cooling towers shall be set up with minimum Cycles of Concentration (COC) of 5.0 or above for power plants using fresh water to achieve specific water consumption of 2.5 m ³ /MWhr. (Or) Induced/Natural draft open cycle cooling system shall be set up with minimum Cycles of Concentration (COC) of 1.5 or above for power plants using sea water.	Shall be complied as same is incorporated in main EPC package, work awarded to M/s BHEL. MoEF&CC notification dated 07.12.2015 and its amendment dated 28.06.2018 envisages a limit of 3.0 m ³ /MWh.

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67	6.2	In case of the water withdrawal from river, a minimum flow 15% of the average flow of 120 consecutive leanest days should be maintained for environmental flow whichever is higher, to be released during the lean season after water withdrawal for proposed power plant.	Raw water shall be sourced from Saradih Barrage of Mahanadi River as per the agreement with Chhattisgarh Water Resource Department (CGWRD) and water drawl is being done in consultation with (CGWRD) to comply all applicable conditions. Saradih reservoir is under administrative Control of Chhattisgarh Water resource Department.
68	6.3	Records pertaining to measurements of daily water withdrawal and river flows (obtained from Irrigation Department/Water Resources Department) immediately upstream and downstream of withdrawal site shall be maintained.	Shall be complied during the operation phase of the plant.
69	6.4	Rainwater harvesting in and around the plant area be taken up to reduce drawl of fresh water. If possible, recharge of groundwater to be undertaken to improve the ground water table in the area.	Shall be complied.
70	6.5	Regular (at least once in six months) monitoring of groundwater quality in and around the ash pond area including presence of heavy metals (Hg, Cr, As, Pb, etc.) shall be carried out as per CPCB guidelines. Surface water quality monitoring shall be undertaken for major surface water bodies as per the EMP. The data so obtained should be compared with the baseline data so as to ensure that the groundwater and surface water quality is not adversely impacted due to the project & its activities.	Being done quarterly. Data submitted.
71	6.6	The treated effluents emanating from the different processes such as DM plant, boiler blow down, ash pond/dyke, sewage, etc. conforming to the prescribed standards shall be re-circulated and reused. Sludge/ rejects will be disposed in accordance with the Hazardous Waste Management Rules.	Shall be complied during the operation phase of the plant.
72	6.7	Hot water dispensed from the condenser should be adequately cooled to ensure the temperature of the released surface water is not more than 5 degrees Celsius above the temperature of the intake water.	Shall be complied.
73	6.8	Based on the commitment made by the Project Proponent, Sewage Treatment Plants within the radius of 50 km from proposed project, the treated sewage ofKLD from STP (name) shall be used as an alternative to the fresh water source to minimize the freshwater drawl from surface water bodies.	As per the guidelines laid down in para 6.4 & 6.6 of the Office Memorandum dated. 21st September 2020, Ministry of Power, Treated Sewage Water from the STP of Municipality/ local bodies. Use of treated water from Raigarh STPs may not possible due to the following reasons: (A) Raigarh STP (Existing - 7 MLD capacity) • The STP and NTPC Lara are located on opposite banks of

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
			<p>River Kelo, posing a significant logistical constraint.</p> <ul style="list-style-type: none"> The production capacity of the STP is less than 30% of NTPC Lara's cooling water requirement. <p>(B) Raigarh STP (Existing — 25 MLD capacity)</p> <p>From an environmental and water conservation perspective, it would be prudent that treated sewage water from this STP be utilized by the nearest thermal power plants (TPPs), thereby minimizing capital expenditure on pipeline length and reducing the lifetime carbon footprint of pumping operations. NTPC Lara is not in the priority zone as per vicinity; several other TPPs are located much closer to the STP.</p>
74	6.9	Wastewater generation ofKLD from various sources (viz. cooling tower blowdown, boiler blow down, wastewater from ash handling, etc) shall be treated to meet the standards of pH: 6.5-8.5; Total Suspended Solids: 100 mg/l; Oil & Grease: 20 mg/l; Copper: 1 mg/l; Iron:1 mg/l; Free Chlorine: 0.5; Zinc: 1.0 mg/l; Total Chromium: 0.2 mg/l; Phosphate: 5.0 mg/l;	Shall be complied during the operation phase of the plant.
75	6.10	Sewage generation ofKLD will be treated by setting up Sewage Treatment plant to maintain the treated sewage characteristics of pH: 6.5-9.0; Bio-Chemical Oxygen Demand (BOD): 30 mg/l; Total Suspended Solids: 100 mg/l; Fecal Coliforms (Most Probable Number):<1000 per 100 ml.	Shall be complied during the operational phase.
7. Risk Mitigation and Disaster Management			
76	7.1	Adequate safety measures and environmental safeguards shall be provided in the plant area to control spontaneous fires in coal yard, especially during dry and humid season.	Shall be complied during operational phase without deviation.
77	7.2	Storage facilities for auxiliary liquid fuel such as LDO and HFO/LSHS shall be made as per the extant rules in the plant area in accordance with the directives of Petroleum & Explosives Safety Organization (PESO). Sulphur Content in the liquid fuel should not exceed 0.5%.	Noted for compliance at the time of usage of LDO and HFO/LSHS. Shall be complied.
78	7.3	Ergonomic working conditions with First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Being complied.
79	7.4	Safety management plan based on Risk Assessment shall be prepared to limit the risk exposure to the workers within the plant boundary.	Being complied in construction phase & same shall be complied during operational phase.
80	7.5	Regular mock drills for on-site emergency management plan and Integrated Emergency Response System shall be developed for all kind of	Complied.

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		possible disaster situations.	
8. Green Belt and Biodiversity conservation			
81	8.1	Green belt shall be developed in an area of 33% of the total project with indigenous native tree species in accordance with CPCB guidelines. The green belt shall inter-alia cover an entire periphery of the plant.	Shall be complied in phased manner along with erection of stage-2 units.
82	8.2	In-situ/ex-situ Conservation Plan for the conservation of flora and fauna should be prepared and implemented.	A Purchase Order (PO) (PO No. 5500045236) dated 09.03.2024 has been awarded by NTPC Lara to Guru Ghasidas Vishwavidyalaya, Bilaspur for the preparation of In-site/ex-situ Conservation Plan. First quarterly report has been submitted by Guru Ghasidas Vishwavidyalaya, Bilaspur.
83	8.3	Suitable screens shall be placed across the intake channel to prevent entrainment of life forms including eggs, larvae, juvenile fish, etc., during extraction of seawater.	Lara Project is not a coastal Plant and No seawater shall be extracted.
9. Waste management			
84	9.1	Solid waste management should be planned in accordance with extant Solid Waste Management Rules, 2016.	Shall be complied.
85	9.2	Toxicity Characteristic Leachate Procedure (TCLP) test shall be conducted for any substance, potential of leaching heavy metals into the surrounding areas as well as into the groundwater.	Shall be complied.
86	9.3	Ash pond shall be lined with impervious liner as per the soil conditions. Adequate dam/dyke safety measures shall also be implemented to protect the ash dyke from getting breached.	Already complied in the ash dyke of stage-I which will be used for stage-II as well as there is no ash dyke envisaged in stage-II.
87	9.4	Fly ash shall be collected in dry form and ash generated shall be used in phased manner as per provisions of the Notification on Fly Ash Utilization issued by the Ministry and amendment thereto. By the end of 4th year, 100% fly ash utilization should be ensured. Unutilized ash shall be disposed off in the ash pond in the form of High Concentration Slurry. Mercury and other heavy metals (As, Hg, cr, Pb, etc.) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. Fly ash utilization details shall be submitted to concerned Regional Office along with the six-monthly compliance reports and utilization data shall be published on company's website.	Shall be complied during the operation phase of the plant.
88	9.5	Unutilized ash shall be disposed off in the ash pond in the form of High Concentration Slurry/Medium Concentration Slurry/Lean Concentration Slurry method. Ash water recycling system shall be set up to recover supernatant water.	Shall be complied during the operation phase of the plant.
89	9.6	In case of waste-to-energy plant, major problems related with environment are fire smog in MSW dump site, foul smell and impacts to the	Lara Stage-II is coal based TPP and not a waste-to-energy plant.

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		surrounding populations. Therefore, the following measures are required to be taken up: i) Water hydrant at all the dumpsites of MSW area to be provided so that the fire and smog could be controlled. ii) Sprayer like microbial consortia may be provided for arresting the foul smell emanating from MSW area.	
	10. Monitoring of compliance		
90	10.1	Environmental Audit of the project be taken up by the third party for preparation of Environmental Statement as per Form-V & Conditions stipulated in the EC and report be submitted to the Ministry.	Shall be complied during the operation phase of the plant.
91	10.2	Resettlement & Rehabilitation Plan as per the extant rules of Govt. of India and respective State Govt. shall be followed, if applicable.	No land acquired for stage-II. Same was compiled during acquisition of land for stage-I.
92	10.3	Energy Conservation Plan to be implemented as envisaged in the EIA / EMP report. Renewable Energy Purchase Obligation as set by MoP/State Government shall be met either by establishing renewable energy power plant (such as solar, wind, etc.) or by purchasing Renewable Energy Certificates.	Shall be complied.
93	10.4	Monitoring of Carbon Emissions from the existing power plant as well as for the proposed power project shall be carried out annually from a reputed institute and report be submitted to the Ministry's Regional Office.	Noted for compliance. Report for carbon emission for the existing plant is being submitted hereby for the FY 2024-25. Total Carbon (CO ₂) emission for Stage-I: 10.49 MT (Million Tonnes) during FY 2024-25 (Copy submitted).
94	10.5	Energy and Water Audit shall be conducted at least once in two years and recommendations arising out of the Report should be followed. A report in this regard shall be submitted to Ministry's Regional Office.	Complied. Summary of draft report submitted.
95	10.6	Environment Cell (EC) shall be constituted by taking members from different divisions, headed by a qualified person on the subject, who shall be reporting directly to the Head of the Project.	Noted to ensure compliance. Presently in compliance.
96	10.7	The project proponent shall (Post-EC Monitoring): a. send a copy of environmental clearance letter to the heads of Local Bodies, Panchayat, Municipal bodies and relevant offices of the Government; b. upload the clearance letter on the web site of the company as a part of information to the general public. c. inform the public through advertisement within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language that the project has been accorded environmental clearance by the Ministry and copies of the	Complied. Submission Copy provided Complied. https://ntpc.co.in/sites/default/files/inline-files/Environment%20Clearance%20of%20Lara%20STPP%20Stage-II%20%282X800MW%29.pdf Complied. Kelo Pravah: 21.07.2023 Times of India: 21.07.2023 Dainik Bhaskar: 21.07.2023

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		<p>clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forest and Climate Change (MoEF&CC) at http://parviesh.nic.in.</p> <p>d. upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same periodically;</p> <p>e. monitor the criteria pollutants level namely; PM (PM10& PM2.5) in case of ambient AAQ, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company;</p> <p>f. submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB;</p> <p>g. submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company;</p> <p>h. inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project and the date of commencement of the land development work.</p>	<p>Copy submitted Shall be complied.</p> <p>Shall be complied during the operation phase of the plant.</p> <p>Being Complied.</p> <p>Shall be complied during the operation phase of the plant.</p> <p>Investment approval for the project was accorded by the Board of Directors on 28.09.2023, which may be considered as the date of financial closure.</p>
11. Corporate Environmental Responsibility (CER) activities			
97	11.1	CER activities will be carried out as per OM No. 22-65/2017-IA.III dated 30.9.2020 or as proposed by the PP in reference to Public Hearing or as earmarked in the EIA/EMP report along with the detailed schedule of implementation with appropriate budgeting.	Shall be complied.
12. Marine facilities			
98	12.1	As the seawater intake systems are required for the plant fall in CRZ area, recommendations from State Coastal Zone Management Authority (SCZMA) as per CRZ Notification shall be implemented.	Lara Project is not a coastal Plant and No seawater shall be extracted.
99	12.2	Marine intake and outfall pipelines shall be located as per the recommendations State Coastal Zone Management Authority (SCZMA).	Lara Project is not a coastal Plant and No seawater shall be extracted.
13. Sea Water Intake			
100	13.1	Seawater intake system shall be so designed and constructed to ensure sufficient seawater in terms of quantity and quality.	Lara Project is not a coastal Plant and No seawater shall be extracted.
101	13.2	The withdrawal of seawater shall be preferably through a pipeline with a riser equipped with a velocity cap arrangement and bar screen to arrest the impingement of large marine organisms.	Lara Project is not a coastal Plant and No seawater shall be extracted.
102	13.3	In all tide conditions (particularly at spring low tides) the riser head must be flooded with the	Lara Project is not a coastal Plant and No seawater shall be

Sr. No.	EC Cond. No.	Description	Status of Implementation (As on 31.09.2025)
		required submergence of seawater above its top.	extracted.
		14. Effluent Release	
103	14.1	At the effluent release point, maximum temperature of the discharge water shall not be more than 50C and salinity shall not exceed 50 ppt with respect to that of the ambient seawater.	Lara Project is not a coastal Plant and No seawater shall be extracted.
104	14.2	Use of antifouling agents like chlorine / hypochlorite, shall be carefully controlled. The chlorine concentration shall not exceed 0.2 ppm at the effluent release point.	Lara Project is not a coastal Plant and No seawater shall be extracted.
105	14.3	The effluent when released at the selected location shall attain sufficient dilution so that near ambient water quality (particularly temperature and salinity) is attained within 500 m from the release location, at low tide.	Lara Project is not a coastal Plant and No seawater shall be extracted.
106	14.4	The location of the diffuser shall be marked with a solar lighted buoy to avoid accidents.	Lara Project is not a coastal Plant and No seawater shall be extracted.
107	14.5	The site selected based on mathematical modeling shall ensure absence of recirculation of the effluent plume in the seawater intake area under all tidal conditions.	Lara Project is not a coastal Plant and No seawater shall be extracted.
108	14.6	The effluent shall be released through a properly designed multiport diffuser above the seabed to facilitate its efficient initial mixing with the receiving seawater.	Lara Project is not a coastal Plant and No seawater shall be extracted.
109	14.7	Efficacy of the diffuser shall be ascertained at least once in 2 years through scientific studies and corrective actions such as cleaning of the diffuser from marine growth, removal of silt deposits, etc. shall be taken up, if warranted.	Lara Project is not a coastal Plant and No seawater shall be extracted.
110	14.8	Continuous online monitoring system for Temperature and Salinity shall be installed to monitor the quality of effluent.	Lara Project is not a coastal Plant and No seawater shall be extracted.
15. Common to intake and effluent			
111	15.1	The pipeline shall be buried below the seabed at a depth to ensure its stability under rough sea conditions particularly during cyclone / tsunami. The depth of burial will depend on the seafloor strata but normally the top of the pipeline shall be at least 1 m below the bed level. In the surf and intertidal zones, the pipeline shall be buried below the maximum scour level.	Lara Project is not a coastal Plant and No seawater shall be extracted.
112	15.2	In case of open channel, the channel shall be constructed as per the recommendations of State Coastal Zone Management Authority (SCZMA).	Lara Project is not a coastal Plant and No seawater shall be extracted.
113	15.3	If the substratum is rocky the pipeline may be anchored to the rock provided the geology of the area satisfactorily supports the structure which shall be ascertained through geo-technical investigations.	Lara Project is not a coastal Plant and No seawater shall be extracted.
114	15.4	Exposed pipeline section and riser shall be protected by armor stone from waves, boats anchoring, fishing activities etc.	Lara Project is not a coastal Plant and No seawater shall be extracted.
115	15.5	The location of the riser & diffuser shall be marked with a solar lighted buoy to avoid accidents from boats.	Lara Project is not a coastal Plant and No seawater shall be extracted.

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116	15.6	Marine / Sea water quality shall be monitored at effluent release location at the center. Parameters to be monitored shall be as follows: a. Physico-chemical: Temperature, Salinity, pH and Dissolved Oxygen. b. Biological: Primary Productivity, Phytoplankton (Chlorophyll a, Phaeophytin, Population, Species), Zooplankton (Biomass, Population, Species) and Benthos (Biomass, Population, Species).	Lara Project is not a coastal Plant and No seawater shall be extracted.
117	15.7	In case of Coastal Power Plants, the Mangrove plantation shall be taken up in an area ofha, along the coast/ on the banks of Estuary.	Lara Project is not a coastal Plant and No seawater shall be extracted.

34.1.5: The details of the conditions for which amendment is sought and their justification for the same is as follows:

Sr. No.	Reference / EC condition no.	Details of Conditions as per EC dated 17/07/2023	Amendment Sought	Justification
1.	Subject /Project Name	<i>“Expansion of Coal Based Lara Super Thermal Power Project from capacity 1600 (2x800 MW) to 3200 MW by addition of 2x800 MW in an area of 1036.59 ha located at villages Armuda, Chhapora, Bodajharia, Devalpura, Mahloi, Riyapalli, Lara, Jhilgitar and Kandagarh Tehsil Pussore District Raigarh (Chhattisgarh)”</i>	Expansion of Coal Based Lara Super Thermal Power Project from capacity 1600 (2x800 MW) to 3200 MW by addition of 2x800 MW in an area of 892.06 ha located at villages Armuda, Chhapora, Bodajharia, Mahloi, Riyapalli, Kandagarh, Devalpura, Ghutkupali, Thengapali, Lara in Tehsil Pussore, District Raigarh and Village Saradih in Tehsil Dabhara, District Sakti, Chhattisgarh.	Since the project is located in Villages Armuda, Chhapora, Bodajharia, Mahloi, Riyapalli, Kandagarh, Devalpura, Ghutkupali, Thengapali, Lara in Tehsil Pussore, District Raigarh and Village Saradih in Tehsil Dabhara, District Sakti.
2.	Specific EC Condition no. 2.1 (xxix)	<i>“As committed, a multi-specialty Hospital with 100 beds shall be established to cater the need of population living within 10 km.”</i>	Waiver of this condition	NTPC Lara has consistently extended financial support for strengthening healthcare facilities in the region. An amount of ₹50 Crores has been provided to Raigarh Medical College for the upgradation of infrastructure and installation of latest medical equipment,

Sr. No.	Reference / EC condition no.	Details of Conditions as per EC dated 17/07/2023	Amendment Sought	Justification
				<p>thereby ensuring modern facilities, improved amenities, and enhanced medical capacity for the local population. In addition, NTPC Lara has extended a grant of ₹35.53 Crores to Akhil Bharatiya Vanvasi Kalyan Ashram Hospital, Jashpur for expansion and enhancement of healthcare services in tribal and rural areas. These contributions highlight NTPC Lara's commitment towards improving healthcare access and quality, while reinforcing its role as a reliable partner in regional development and welfare.</p> <p>Memorandum of Agreement (MoA) was signed between District Administration, Raigarh & M/s NTPC Lara for the establishment of the 100 bedded Multi speciality hospital in tehsil Pussore, Raigarh District (CG) but was cancelled by the district administration. District Administration (CSR Branch), Raigarh, Chhattisgarh has given a letter to NTPC Lara (Letter No. GENS/2799/2025-COLL RGH CSR SEC/191, dated. 08.09.2025) & it has asked NTPC Lara to provide Rs. 29.99 Crore for "Kelo River Conservation & Rejuvenation Project". NTPC Lara has already</p>

Sr. No.	Reference / EC condition no.	Details of Conditions as per EC dated 17/07/2023	Amendment Sought	Justification
				provided 20.01 Crore for 100 bed hospital, which shall be adjusted to Kelo River Conservation & Rejuvenation as per the letter received from District Administration & the remaining amount, which is Rs. 9.98 Crore, has been asked to provide.
3.	Specific EC Condition no. 3.1(ix)	<i>“Project proponent shall explore the use of treated sewage water from the Sewage Treatment Plant of Municipality / local bodies/ similar organization located within 50km radius of the proposed power project to minimize the water drawl from surface water bodies.”</i>	Deletion of this condition	<p>As per the guidelines laid down in para 6.4 & 6.6 of the Office Memorandum dated. 21st September 2020, Ministry of Power, Treated Sewage Water from the STP of Municipality/ local bodies is not required. Use of treated water from Raigarh STPs is not possible due to the following reasons:</p> <p>(A) Raigarh STP (Existing - 7 MLD capacity)</p> <ul style="list-style-type: none"> The STP and NTPC Lara are located on opposite banks of River Kelo, posing a significant logistical constraint. The production capacity of the STP is less than 30% of NTPC Lara's cooling water requirement. <p>(B) Raigarh STP (Existing — 25 MLD capacity)</p> <p>From an environmental and water conservation perspective, it would be prudent that treated sewage water from this STP be utilized by the nearest thermal power plants (TPPs), thereby</p>

Sr. No.	Reference / EC condition no.	Details of Conditions as per EC dated 17/07/2023	Amendment Sought	Justification
				minimizing capital expenditure on pipeline length and reducing the lifetime carbon footprint of pumping operations. NTPC Lara is not in the priority zone as per vicinity; several other TPPs are located much closer to the STP.
4.	Specific EC Condition no. 3.1(xxiii)	<i>“Explore desulphurization from biotechnological method”</i>	Deletion of this condition	It is not feasible due to the quantity of coal being used for stage-I & proposed for Stage-II.
5.	Standard EC Condition no. 1.2	<i>“Part C of Schedule II of Municipal Solid Wastes Rules, 2016 dated 08.04.2016 as amended from time to time shall be complied for power plants based on Municipal Solid Waste”</i>	Deletion of this condition	Proposed Lara stage-II is a coal-based Thermal Power Plant which is a super critical technology based power plant. NTPC Lara shall not use Municipal Solid Waste.
6.	Standard EC Condition no. 1.5	<i>“Thermal Power Plants other than the power plants located on coast and using sea water for cooling purposes, shall achieve specific water consumption of 2.5 m³ /MWh and Zero effluent discharge.”</i>	Lara STPP Stage-II shall achieve specific water consumption of 3.0 m ³ /MWh and Zero effluent discharge.	MoEF&CC notification dated 07.12.2015 and its amendment dated 28.06.2018 envisages a limit of 3.0 m ³ /MWh.
7.	Standard EC Condition no. 6.8	<i>“Based on the commitment made by the Project Proponent, Sewage Treatment Plants within the radius of 50 km from proposed project, the treated sewage ofKLD from STP (name) shall be used as an alternative to the fresh water source to minimize the freshwater drawl from surface water bodies.”</i>	Deletion of this condition	MoEF&CC notification dated 07.12.2015 and its amendment dated 28.06.2018 envisages a limit of 3.0 m ³ /MWh. As per the guidelines laid down in para 6.4 & 6.6 of the Office Memorandum dated. 21st September 2020, Ministry of Power, Treated Sewage Water from the STP of Municipality/ local bodies is not required. Use of treated water from Raigarh STPs is

Sr. No.	Reference / EC condition no.	Details of Conditions as per EC dated 17/07/2023	Amendment Sought	Justification
				<p>not possible due to the following reasons:</p> <p>(A) Raigarh STP (Existing - 7 MLD capacity)</p> <ul style="list-style-type: none"> The STP and NTPC Lara are located on opposite banks of River Kelo, posing a significant logistical constraint. The production capacity of the STP is less than 30% of NTPC Lara's cooling water requirement. <p>(B) Raigarh STP (Existing — 25 MLD capacity)</p> <p>From an environmental and water conservation perspective, it would be prudent that treated sewage water from this STP be utilized by the nearest thermal power plants (TPPs), thereby minimizing capital expenditure on pipeline length and reducing the lifetime carbon footprint of pumping operations. NTPC Lara is not in the priority zone as per vicinity; several other TPPs are located much closer to the STP.</p>
8.	Standard EC Condition no. 8.3	<i>“Suitable screens shall be placed across the intake channel to prevent entrainment of life forms including eggs, larvae, juvenile fish, etc., during extraction of seawater”</i>	Deletion of this condition	Lara Project is not a coastal Plant and No seawater shall be extracted.
9.	Standard EC Condition no. 9.6	<i>“In case of waste-to-energy plant, major problems related with environment are fire smog in MSW dump site,</i>	Deletion of this condition	Lara Stage-II is coal based TPP and not a waste-to energy plant.

Sr. No.	Reference / EC condition no.	Details of Conditions as per EC dated 17/07/2023	Amendment Sought	Justification
		<i>foul smell and impacts to the surrounding populations. Therefore, the following measures are required to be taken up: i) Water hydrant at all the dumpsites of MSW area to be provided so that the fire and smog could be controlled. ii) Sprayer like microbial consortia may be provided for arresting the foul smell emanating from MSW area”</i>		
10.	Standard EC Condition no. 10.2	<i>“Resettlement & Rehabilitation Plan as per the extant rules of Govt. of India and respective State Govt. shall be followed, if applicable”</i>	Deletion of this condition	No land acquired for stage-II. Same is in compliance during of acquisition of land for stage-I.
11.	Standard EC Condition no. 12.1	<i>“As the seawater intake systems are required for the plant fall in CRZ area, recommendations from State Coastal Zone Management Authority (SCZMA) as per CRZ Notification shall be implemented.”</i>	Deletion of this condition	Lara Project is not a coastal Plant and No seawater shall be extracted.
12.	Standard EC Condition no. 12.2	<i>“Marine intake and outfall pipelines shall be located as per the recommendations State Coastal Zone Management Authority (SCZMA)”</i>	Deletion of this condition	Lara Project is not a coastal Plant and No seawater shall be extracted.
13.	Standard EC Condition no. 13.1	<i>“Seawater intake system shall be so designed and constructed to ensure sufficient sweater in terms of quantity and quality.”</i>	Deletion of this condition	Lara Project is not a coastal Plant and No seawater shall be extracted.
14.	Standard EC Condition no. 13.2	<i>“The withdrawal of seawater shall be preferably through a pipeline with a riser equipped with a velocity</i>	Deletion of this condition	Lara Project is not a coastal Plant and No seawater shall be extracted.

Sr. No.	Reference / EC condition no.	Details of Conditions as per EC dated 17/07/2023	Amendment Sought	Justification
		<i>cap arrangement and bar screen to arrest the impingement of large marine organisms.”</i>		
15.	Standard EC Condition no. 13.3	<i>“In all tide conditions (particularly at spring low tides) the riser head must be flooded with the required submergence of seawater above its top.”</i>	Deletion of this condition	Lara Project is not a coastal Plant and No seawater shall be extracted.
16.	Standard EC Condition no. 14.1	<i>“At the effluent release point, maximum temperature of the discharge water shall not be more than 5°C and salinity shall not exceed 50 ppt with respect to that of the ambient seawater ”</i>	Deletion of this condition	Lara Project is not a coastal Plant and No seawater shall be extracted.
17.	Standard EC Condition no. 14.2	<i>“Use of antifouling agents like chlorine / hypochlorite, shall be carefully controlled. The chlorine concentration shall not exceed 0.2 ppm at the effluent release point.”</i>	Deletion of this condition	Lara Project is not a coastal Plant and No seawater shall be extracted.
18.	Standard EC Condition no. 14.3	<i>“The effluent when released at the selected location shall attain sufficient dilution so that near ambient water quality (particularly temperature and salinity) is attained within 500 m from the release location, at low tide.”</i>	Deletion of this condition	Lara Project is not a coastal Plant and No seawater shall be extracted.
19.	Standard EC Condition no. 14.4	<i>“The location of the diffuser shall be marked with a solar lighted buoy to avoid accidents”</i>	Deletion of this condition	Lara Project is not a coastal Plant and No seawater shall be extracted.
20.	Standard EC Condition no. 14.5	<i>“The site selected based on mathematical modelling shall ensure absence of recirculation of the effluent plume in the seawater intake area under all tidal</i>	Deletion of this condition	Lara Project is not a coastal Plant and No seawater shall be extracted.

Sr. No.	Reference / EC condition no.	Details of Conditions as per EC dated 17/07/2023	Amendment Sought	Justification
		conditions”		
21.	Standard EC Condition no. 14.6	“The effluent shall be released through a properly designed multiport diffuser above the seabed to facilitate its efficient initial mixing with the receiving seawater.”	Deletion of this condition	Lara Stage-II is coal based TPP and not a waste-to energy plant.
22.	Standard EC Condition no. 14.7	“Efficacy of the diffuser shall be ascertained at least once in 2 years through scientific studies and corrective actions such as cleaning of the diffuser from marine growth, removal of silt deposits, etc. shall be taken up, if warranted.”	Deletion of this condition	Lara Stage-II is coal based TPP and not a waste-to energy plant.
23.	Standard EC Condition no. 14.8	“Continuous online monitoring system for Temperature and Salinity shall be installed to monitor the quality of effluent.”	Deletion of this condition	Lara Stage-II is coal based TPP and not a waste-to energy plant.
24.	Standard EC Condition no. 15.1	“The pipeline shall be buried below the seabed at a depth to ensure its stability under rough sea conditions particularly during cyclone / tsunami. The depth of burial will depend on the seafloor strata but normally the top of the pipeline shall be at least 1 m below the bed level. In the surf and intertidal zones, the pipeline shall be buried below the maximum scour level.”	Deletion of this condition	Lara Stage-II is coal based TPP and not a waste-to energy plant.
25.	Standard EC Condition no. 15.2	“In case of open channel, the channel shall be constructed as per the recommendations of State Coastal Zone Management Authority	Deletion of this condition	Lara Stage-II is coal based TPP and not a waste-to energy plant.

Sr. No.	Reference / EC condition no.	Details of Conditions as per EC dated 17/07/2023	Amendment Sought	Justification
		(SCZMA).”		
26.	Standard EC Condition no. 15.3	“If the substratum is rocky the pipeline may be anchored to the rock provided the geology of the area satisfactorily supports the structure which shall be ascertained through geo-technical investigations”	Deletion of this condition	Lara Stage-II is coal based TPP and not a waste-to energy plant.
27.	Standard EC Condition no. 15.4	“Exposed pipeline section and riser shall be protected by armor stone from waves, boats anchoring, fishing activities etc.”	Deletion of this condition	Lara Stage-II is coal based TPP and not a waste-to energy plant.
28.	Standard EC Condition no. 15.5	“The location of the riser & diffuser shall be marked with a solar lighted buoy to avoid accidents from boats”.	Deletion of this condition	Lara Stage-II is coal based TPP and not a waste-to energy plant.
29.	Standard EC Condition no. 15.6	“Marine / Sea water quality shall be monitored at effluent release location at the center. Parameters to be monitored shall be as follows: a. Physico-chemical: Temperature, Salinity, pH and Dissolved Oxygen. b. Biological: Primary Productivity, Phytoplankton (Chlorophyll a, Phaeophytin, Population, Species), Zooplankton (Biomass, Population, Species) and Benthos (Biomass, Population, Species).”	Deletion of this condition	Lara Stage-II is coal based TPP and not a waste-to energy plant.
30.	Standard EC Condition no. 15.7	“In case of Coastal Power Plants, the Mangrove plantation shall be taken up in an area ofha, along the coast/ on the banks of Estuary.”	Deletion of this condition	Lara Stage-II is coal based TPP and not a waste-to energy plant.

Justification for the proposed EC amendment: Ministry of Environment, Forest & Climate Change has accorded Environment clearance (EC) for “2x800 MW (Expansion, Stage-II) Coal Based Lara Super Thermal Power Project at villages Armuda, Chhapora, Bodajhariya, Mahloi, Riyapalli, Kandagarh, Jhilgitar, Devalpura, Ghutkupali, Thengapali, Lara in Tehsil Pussore, District Raigarh and Village Saradih in Tehsil Dabhara, District Sakti, Chhattisgarh” vide File No: J-13012/11/2018-IA.I (T) Dated 17.07.2023.

Subsequently, the investment approval (financial closure) for Lara STPP, Stage-II has been accorded by Board of NTPC Limited on 28.09.2023. With the investment approval, the activities towards project development and compliance with EC conditions have been initiated.

NTPC has started construction activities of Lara STPP Stage-II on 12.04.2024 and making its all-out efforts to comply with all the EC Conditions. However, a detailed examination of EC conditions reveals that some of the conditions are not applicable to the project Lara STPP Stage-II, hence need deletion while some other conditions need review and amendment.

34.1.6: Summary of violation under EIA, 2006/court case/show cause/direction if any, related to the project under consideration shall be furnished.

A. Summary of court cases: There are total 72 cases related with Lara STPP is pending, out of these 02 cases are related with Arbitration, 03 cases related to Civil Application, 07 cases related to Contract Matter, 01 cases related to the Insolvency and Bankruptcy Code (IBC), 56 cases related to Land Acquisition, 01 Cases related to Land Acquisition/ ROU, 01 cases related to Misc., & 01 case related with Service. There is no court case related with Environment & Forest of the project under consideration.

B. Summary of Show Cause Notices (Last two years): No Show Cause Notices in last two years

C. Summary of violation: There are no violation cases under the Environmental Protection Act 1986, Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980, and Wildlife (Protection) Act, 1972.

Observations and deliberation of the EAC

34.1.7: The Committee observed and noted the following:

- i. Instant proposal is for seeking amendment in various conditions prescribed in the EC dated 17.07.2023, accorded for the project titled “**2x800 MW (Expansion, Stage-II) Coal Based Lara Super Thermal Power Project by M/s NTPC Ltd., located at villages Armuda, Chhapora, Bodajhariya, Mahloi, Riyapalli, Kandagarh, Jhilgitar, Devalpura, Ghutkupali, Thengapali, Lara in Tehsil Pussore, District Raigarh and Village Saradih in Tehsil Dabhara, District Sakti, Chhattisgarh**”.
- ii. The Committee examined the proposed amendment in the project name and Standard EC Condition No. 10.2 related to the Resettlement & Rehabilitation Plan. The Committee noted lack of clarity in the land-use pattern for the existing Stage-I & II, and future expansion, particularly regarding the reduction in project area from 1036.59 ha to 892.06 ha. Committee also observed that there is no

clarity between Ash Pond and Green Belt areas mentioned in Stage I EC dt. 13/12/2012 and that mentioned in Stage II EC dt. 17/7/2023. For instance, in EC dated 13/12/2012 for Stage I- 2x800 MW Plant, Ash Pond area is 400 acres, whereas in Expansion EC dated 17/7/2023, area of ash pond for Stage I is mentioned as 491 acres. Also, the area required for Stage I was mentioned as 1205 acres in EC dated 13/12/2012, whereas in the expansion EC for Stage II dated 17/7/2023, area required for Stage I is mentioned as 1676 acres. Besides clarity in green belt area for Stage I and Stage II is also required. The requisite clarification shall be submitted within a month and if necessary, the proposal(s) of amendment in EC of Stage I and II and in expansion ToR for Stage III shall be submitted. Accordingly, the Committee recommended that the Project Proponent revisit the land-use pattern and submit an undertaking confirming that no additional R&R is involved, prior to submission of the amendment application. In view of this, EAC not acceded to the request of the project proponent.

- iii. The EAC reviewed Specific EC Condition No. 2.1 (xxix), “*As committed, a multi-specialty hospital with 100 beds shall be established to cater to the needs of the population living within a 10 km radius,*” as stipulated in the EC granted on 17.07.2023. The Committee deliberated on the information submitted by the Project Proponent (PP) and observed that this condition has been prescribed in the EC based on the commitment given by the proponent at the time of appraisal of the project for grant of EC. After deliberations, the committee acceded to the request of the proponent.
- iv. Committee accede to the request for modification/waiver of Specific EC Condition No. 3.1 (ix & xxiii) and Standard EC Condition No. 6.8 based on the justification of the proponent.
- v. The Project Proponent sought an amendment to Standard EC Condition no. 1.5, proposing that the specific water consumption be revised from 2.5 m³ /MWh to 3.0 m³ /MWh with Zero effluent discharge, in accordance with MoEF&CC Notifications dated 07.12.2015 & its amendment dated 28.6.2018 on Water Consumption in TPP. The committee noted that the document submitted for stage-II water requirements was incomplete and advised the PP to submit the complete documents carefully.
- vi. The EAC observed that several standard conditions mentioned in the EC granted on 17.07.2023 were included by default in the system, and are primarily applicable to Biomass-based thermal power plants as well as TPP projects located in coastal areas. Therefore, the committee agreed to delete the Standard EC Condition Nos. 1.2, 1.5, 8.3, 9.6, 12.1, 12.2, 13.1, 13.2, 13.3, 14.1, 14.2, 14.3, 14.4, 14.5, 14.6, 14.7, 14.8, 15.1, 15.2, 15.3, 15.4, 15.5, 15.6, and 15.7.
- vii. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and if any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

Recommendations of the Committee:

34.1.8: In view of the foregoing and after the detailed deliberations, the Committee *partially recommended* the instant proposal for grant of amendment in the EC dated **17.07.2023** as detailed below. All other terms and conditions prescribed in EC dated **17.07.2023** shall remain unchanged:

Sr. No.	Reference / EC condition no.	Details of Conditions as per EC dated 17.07.2023	Recommendations of EAC
1.	Subject /Project Name	<i>“Expansion of Coal Based Lara Super Thermal Power Project from capacity 1600 (2x800 MW) to 3200 MW by addition of 2x800 MW in an area of 1036.59 ha located at villages Armuda, Chhapora, Bodajharia, Devalpura, Mahloi, Riyapalli, Lara, Jhilgitar and Kandagarh Tehsil Pussore District Raigarh (Chhattisgarh)”</i>	Not agreed EAC not agreed for amendment in this condition and asked the Project Proponent to revisit the land-use pattern and breakup of previous ECs for Stage I & II as well as expansion ToR for Stage III project as there are discrepancies and PP should take amendment accordingly. PP also needs to submit an undertaking confirming that no additional R&R is involved, along with the submission of the EC amendment application.
2.	Specific EC Condition no. 2.1 (xxix)	<i>“As committed, a multi-specialty Hospital with 100 beds shall be established to cater the need of population living within 10 km.”</i>	Agreed EAC recommended to delete this condition.
3.	Specific EC Condition no. 3.1(ix)	<i>“Project proponent shall explore the use of treated sewage water from the Sewage Treatment Plant of Municipality / local bodies/ similar organization located within 50km radius of the proposed power project to minimize the water drawl from surface water bodies.”</i>	Partially agreed. EAC recommended to modify this condition as below: <i>Project proponent shall explore the feasibility regarding use of treated sewage water from the Sewage Treatment Plant of Municipality / local bodies/ similar organization located within 50km radius of the proposed power project to minimize the water drawl from surface water bodies.</i>
4.	Specific EC Condition no. 3.1 (xxiii)	<i>“Explore desulphurization from biotechnological method”</i>	Agreed EAC recommended to delete this condition.
5.	Standard EC Condition no. 1.2	<i>“Part C of Schedule II of Municipal Solid Wastes Rules, 2016 dated 08.04.2016 as amended from time to time shall be complied for power plants based on Municipal Solid Waste”</i>	Agreed EAC recommended to delete this condition.
6.	Standard EC Condition no. 1.5	<i>“Thermal Power Plants other than the power plants located on coast and using sea water for cooling purposes, shall achieve specific water</i>	Agreed. EAC recommended to modify this condition as below: <i>“Thermal Power Plants other than the</i>

Sr. No.	Reference / EC condition no.	Details of Conditions as per EC dated 17.07.2023	Recommendations of EAC
		<i>consumption of 2.5 m³ /MWh and Zero effluent discharge.”</i>	<i>power plants located on coast and using sea water for cooling purposes, shall achieve specific water consumption of 3 m³ /MWh and Zero effluent discharge.”</i>
7.	Standard EC Condition no. 6.8	<i>“Based on the commitment made by the Project Proponent, Sewage Treatment Plants within the radius of 50 km from proposed project, the treated sewage ofKLD from STP (name) shall be used as an alternative to the fresh water source to minimize the freshwater drawl from surface water bodies.”</i>	Partially agreed. EAC recommended to modify this condition as below: <i>Based on the commitment made by the Project Proponent, PP shall explore the feasibility regarding use of treated sewage water from the Sewage Treatment Plant of Municipality / local bodies/ similar organization located within 50km radius of the proposed power project to minimize the water drawl from surface water bodies”</i>
8.	Standard EC Condition no. 8.3	<i>“Suitable screens shall be placed across the intake channel to prevent entrainment of life forms including eggs, larvae, juvenile fish, etc., during extraction of seawater”</i>	Agreed EAC recommended to delete this condition.
9.	Standard EC Condition no. 9.6	<i>“In case of waste-to-energy plant, major problems related with environment are fire smog in MSW dump site, foul smell and impacts to the surrounding populations. Therefore, the following measures are required to be taken up: i) Water hydrant at all the dumpsites of MSW area to be provided so that the fire and smog could be controlled. ii) Sprayer like microbial consortia may be provided for arresting the foul smell emanating from MSW area”</i>	Agreed EAC recommended to delete this condition.
10.	Standard EC Condition no. 10.2	<i>“Resettlement & Rehabilitation Plan as per the extant rules of Govt. of India and respective State Govt. shall be followed, if applicable”</i>	Not agreed
11.	Standard EC Condition no. 12.1	<i>“As the seawater intake systems are required for the plant fall in CRZ area, recommendations from State Coastal Zone Management Authority (SCZMA) as per CRZ Notification shall be implemented.”</i>	Agreed EAC recommended to delete this condition.
12.	Standard EC Condition no. 12.2	<i>“Marine intake and outfall pipelines shall be located as per the recommendations State Coastal Zone Management Authority (SCZMA)”</i>	Agreed EAC recommended to delete this condition.

Sr. No.	Reference / EC condition no.	Details of Conditions as per EC dated 17.07.2023	Recommendations of EAC
13.	Standard EC Condition no. 13.1	<i>“Seawater intake system shall be so designed and constructed to ensure sufficient sweater in terms of quantity and quality.”</i>	Agreed EAC recommended to delete this condition.
14.	Standard EC Condition no. 13.2	<i>“The withdrawal of seawater shall be preferably through a pipeline with a riser equipped with a velocity cap arrangement and bar screen to arrest the impingement of large marine organisms.”</i>	Agreed EAC recommended to delete this condition.
15.	Standard EC Condition no. 13.3	<i>“In all tide conditions (particularly at spring low tides) the riser head must be flooded with the required submergence of seawater above its top.”</i>	Agreed EAC recommended to delete this condition.
16.	Standard EC Condition no. 14.1	<i>“At the effluent release point, maximum temperature of the discharge water shall not be more than 5°C and salinity shall not exceed 50 ppt with respect to that of the ambient seawater ”</i>	Agreed EAC recommended to delete this condition.
17.	Standard EC Condition no. 14.2	<i>“Use of antifouling agents like chlorine / hypochlorite, shall be carefully controlled. The chlorine concentration shall not exceed 0.2 ppm at the effluent release point.”</i>	Agreed EAC recommended to delete this condition.
18.	Standard EC Condition no. 14.3	<i>“The effluent when released at the selected location shall attain sufficient dilution so that near ambient water quality (particularly temperature and salinity) is attained within 500 m from the release location, at low tide.”</i>	Agreed EAC recommended to delete this condition.
19.	Standard EC Condition no. 14.4	<i>“The location of the diffuser shall be marked with a solar lighted buoy to avoid accidents”</i>	Agreed EAC recommended to delete this condition.
20.	Standard EC Condition no. 14.5	<i>“The site selected based on mathematical modelling shall ensure absence of recirculation of the effluent plume in the seawater intake area under all tidal conditions”</i>	Agreed EAC recommended to delete this condition.
21.	Standard EC Condition no. 14.6	<i>“The effluent shall be released through a properly designed multiport diffuser above the seabed to facilitate its efficient initial mixing with the receiving seawater.”</i>	Agreed EAC recommended to delete this condition.
22.	Standard EC	<i>“Efficacy of the diffuser shall be ascertained at least once in 2 years</i>	Agreed EAC recommended to delete this

Sr. No.	Reference / EC condition no.	Details of Conditions as per EC dated 17.07.2023	Recommendations of EAC
	Condition no. 14.7	<i>through scientific studies and corrective actions such as cleaning of the diffuser from marine growth, removal of silt deposits, etc. shall be taken up, if warranted."</i>	condition.
23.	Standard EC Condition no. 14.8	<i>"Continuous online monitoring system for Temperature and Salinity shall be installed to monitor the quality of effluent."</i>	Agreed EAC recommended to delete this condition.
24.	Standard EC Condition no. 15.1	<i>"The pipeline shall be buried below the seabed at a depth to ensure its stability under rough sea conditions particularly during cyclone / tsunami. The depth of burial will depend on the seafloor strata but normally the top of the pipeline shall be at least 1 m below the bed level. In the surf and intertidal zones, the pipeline shall be buried below the maximum scour level."</i>	Agreed EAC recommended to delete this condition.
25.	Standard EC Condition no. 15.2	<i>"In case of open channel, the channel shall be constructed as per the recommendations of State Coastal Zone Management Authority (SCZMA)."</i>	Agreed EAC recommended to delete this condition.
26.	Standard EC Condition no. 15.3	<i>"If the substratum is rocky the pipeline may be anchored to the rock provided the geology of the area satisfactorily supports the structure which shall be ascertained through geo-technical investigations"</i>	Agreed EAC recommended to delete this condition.
27.	Standard EC Condition no. 15.4	<i>"Exposed pipeline section and riser shall be protected by armor stone from waves, boats anchoring, fishing activities etc."</i>	Agreed EAC recommended to delete this condition.
28.	Standard EC Condition no. 15.5	<i>"The location of the riser & diffuser shall be marked with a solar lighted buoy to avoid accidents from boats"</i>	Agreed EAC recommended to delete this condition.
29.	Standard EC Condition no. 15.6	<i>"Marine / Sea water quality shall be monitored at effluent release location at the center. Parameters to be monitored shall be as follows: a. Physico-chemical: Temperature, Salinity, pH and Dissolved Oxygen. b. Biological: Primary Productivity, Phytoplankton (Chlorophyll a, Phaeophytin, Population, Species), Zooplankton (Biomass, Population, Species) and Benthos (Biomass,</i>	Agreed EAC recommended to delete this condition.

Sr. No.	Reference / EC condition no.	Details of Conditions as per EC dated 17.07.2023	Recommendations of EAC
		Population, Species).”	
30.	Standard EC Condition no. 15.7	<i>“In case of Coastal Power Plants, the Mangrove plantation shall be taken up in an area ofha, along the coast/ on the banks of Estuary.”</i>	Agreed EAC recommended to delete this condition.

Agenda item No. 34.2

34.2: 2x500MW Thermal Power Plant by M/s NLC Tamilnadu Power Limited, located at Harbour Estate, Tuticorin, Tamil Nadu – 628004 – **Amendment in Environmental Clearance (EC) – regarding.**

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

34.2.1: M/s. NLC Tamilnadu Power Limited has made online application vide proposal no. IA/TN/THE/431783/2023 dated 10/06/2023 along with Form-4 and sought for amendment in the Environmental Clearance accorded by the Ministry vide letter no. F. No. J-13012/68/2006-IA-II(T) dated 13/06/2007 and it's extension dated 11/01/2013 under the provisions of the EIA Notification, 2006 for the project mentioned above.

The instant proposal for amendment in Environmental Clearance was earlier considered by the EAC in its 43rd meeting held on 19.06.2023, wherein the EAC deferred the proposal for want of additional information. Further, the proposal was considered and recommended during 46th EAC meeting held on 4th Sept., 2023. However, it was observed that EC was granted by the Ministry in favour of M/s Neyveli Lignite Corporation Ltd vide letter 13.06.2007 and subsequent extension vide letter dated 11.01.2013, however, proposal for transfer of EC has not been submitted by M/s NLC Tamilnadu Power Limited. Accordingly, PP was requested vide ADS dated 20.10.2023 and 23.07.2024 first to get the transfer of existing EC from M/s Neyveli Lignite Corporation Ltd to M/s NLC Tamilnadu Power Limited and thereafter recommendation of EAC for amendment in EC may be processed after the transfer of EC. Subsequently, EC was transferred by the Ministry vide letter dated 31.07.2025, from M/s. Neyveli Lignite Corporation Limited to M/s. NLC Tamil Nadu Power Limited.

PP vide letter dated 02.08.2025 submitted EC transfer letter granted by MoEF&CC vide letter dated 31/07/2025 and requested for amendment in Environmental clearance. Since, the PP requested for deletion of CSR conditions laid in the EC letter extension letter dated 11.01.2013, an ADS was raised on dated 29.09.2025 for submission of information w.r.t Recurring cost to be earmarked to address the issues/concerns of PH and CSR activities envisaged (under Rs. 19.63 Cr) Vs Actual CSR activities implemented (under Rs. 189 cr.). Subsequent to submission of ADS reply by the PP on dated 26.11.2025, the proposal was placed before the EAC in its 34th meeting held on 9th December, 2025 for consideration of amendment in Environmental Clearance dated 13/06/2007 and it's extension dated 11/01/2013.

Details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meeting, are given as under:

34.2.2: The existing project (2x500 MW) of M/s. NLC Tamilnadu Power Limited was granted Environmental Clearance from the Ministry vide letter no. F. No. J-13012/68/2006-IA-II(T) dated 13/06/2007 and it's extension dated 11/01/2013 for setting up 2X500 MW Tuticorin Thermal Power Project, District Tuticorin, Tamil Nadu in the name of of M/s. Neyveli Lignite Corporation Ltd. Further, EC was transferred by the Ministry vide Ir. dated 31.07.2025, from M/s. Neyveli Lignite Corporation Limited to M/s. NLC Tamil Nadu Power Limited.

34.2.3: The implementation status of the existing EC is as follows

S. No	Power	As per EC dated 13/06/2007 and validity extension dated 11/01/2013	As per CTO* dated 12/04/2022	Balance Quantity
1	2X500 MW	2X500 MW	2X500 MW	Nil
*Valid up to 31 March 2027				

34.2.4: Compliance status to the EC conditions

All the EC conditions have been implemented and the status of compliance is being submitted periodically in the Half-yearly EC compliance report. Certified Compliance Report (CCR) dated 17/06/2025 was issued from the Regional Office, MoEF&CC, Chennai.

34.2.5: The details of the condition for which amendment is sought and justification for the same is as follows:

Sr. No.	Condition No. / Details of Conditions as per EC dated 11.01.2013	Amendment Sought	Justification
1.	Additional Condition No. (xxxiv) “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.”	EC Condition no. (xxxiv) in said stipulation may be deleted.	The CSR activities to be undertaken by an industry is under 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.

34.2.6: Summary of violation under EIA, 2006/court case/show cause/direction if any, related to the project under consideration shall be furnished;

A. Summary of Court Cases: Nil

B. Summary of Show Cause Notices: There are no Show Cause Notices pertaining to Environment & Forest.

C. Summary of violation:

Any violation case pertaining to the project on following:	NIL
i. The Environment Protection Act, 1986	
ii. Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.	
iii. The Wildlife (Protection) Act, 1972	

34.2.7: Details of Expenditure towards Issues raised in Public Hearing held on 07.12.2005 – Certified by IRO, MoEF&CC

S. No.	Issues raised during Public Hearing	Compliance	Capital Expenditure (Rs. in Cr.)	Avg. Recurring Expenditure per year (Rs. in Cr.)
01	Desalination plant should be provided as proposed to meet out the entire water requirement of the new project.	Complied	162.89	2.14
02	The unit should provide adequate Air pollution control measures so as to satisfy the AAQ and emission standards prescribed.	Complied	3.43	0.36
03	The unit should provide adequate ETP to treat the trade effluent generated from various sources.	Complied	0.69	0.022
04	The unit should ensure that the entire quantity of treated trade effluent is used for gardening / green belt development.	Complied	0.1088	
05	All the construction activities proposed by the unit should comply with the regulations contained in the CRZ Notification, 1991.	Complied		
06	The entire quantity of fly ash generated should be sold out to cement industries and other user industries and sufficient/ adequate storage silos should be provided for ensuring this.	Complied	17.05	1.2
07	The bottom ash generated should not be mixed with sea water and it should be mixed only with the treated trade effluent and the unit should explore the possibility of selling this bottom ash also to other user industries.	Complied	3.26	1.17
08	Periodic monitoring of sea water quality in the vicinity should be carried out to assess the presence of heavy metals, if any, in the sea water.	Complied		0.027
09	The unit should comply with the provisions of all the existing environmental laws as applicable to the unit.	Complied		

S. No.	Issues raised during Public Hearing	Compliance	Capital Expenditure (Rs. in Cr.)	Avg. Recurring Expenditure per year (Rs. in Cr.)
10	Employment opportunities should be given to local fishermen in the new project.	Complied		
11	The grievances of the fishermen and local people as presented above should be kept in mind by the project authorities while implementing the project.	Complied		
12	Fly Ash Bricks should be used in the Construction of this project.	Complied		
TOTAL (Rs. in Cr.)			187.32	5.00

Details of CSR Expenditure:

S. No.	Financial Year	To be spent as per Companies Act	Spent/ Sanctioned (Rs. in Lakhs)	Remarks
01	2013-14	0.00	20.76	For Environmental Sustainability (Green belt and plantation from Roundana –TTPS – VOC Port)
02	2014-15	0.00	25.00	Contribution to KMTCF tiger reserve for protection of flora and fauna.
03	2015-16	0.00	24.30	Providing Benches & Desks to Govt. Schools of Thoothukudi for Promoting Education.
04	2016-17	0.00	46.93	
05	2017-18	0.00	143.76	Construction of compound wall in Govt. schools & ITI and plantation near township and VOC Port
06	2018-19	55.88	177.75	Undertaken various schemes under Environmental Sustainability, providing safe drinking water and cyclone relief/Disaster management
07	2019-20	519.60	519.60	Undertaken various schemes under Promoting Education, Environmental Sustainability and Promoting Health care.
08	2020-21	580.70	580.70	Undertaken various schemes under Environmental Sustainability, Training to promote rural sports and Rural development projects.
09	2021-22	808.65	808.65	Undertaken various schemes under Environmental Sustainability, providing safe drinking water and cyclone relief/Disaster management
10	2022-23	744.41	744.41	Undertaken various schemes under Promoting health care, Promoting Education and Women empowerment
11	2023-24	882.09	882.09	Undertaken various schemes under Promoting health care, Environmental Sustainability, Promoting Education and Community Development
12	2024-25	642.19	574.36	Undertaken various schemes under Promoting Sports & Education, Environmental Sustainability and Health care, Construction of OHTs etc.

S. No.	Financial Year	To be spent as per Companies Act	Spent/ Sanctioned (Rs. in Lakhs)	Remarks
13	2025-26	1180.19	59.05	Undertaken various schemes under Environmental Sustainability, Training to promote rural sports and Rural development projects, Installation of RO plants etc.
Total		5413.71	4607.36	

Observations and deliberations of the Committee:

34.2.8: The EAC observed and noted the following:

- i. Instant proposal is for seeking amendment in a condition prescribed in the EC letter dated 11.01.2013, accorded for the project titled “2x500MW Thermal Power Plant by M/s NLC Tamilnadu Power Limited, located at Harbour Estate, Tuticorin, Tamil Nadu – 628004”.
- ii. The EAC reviewed the Additional Condition No. (xxxiv) in granted EC dated 11.01.2013 stipulated as “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”.
- iii. The committee deliberated on details of Expenditure towards issues raised in Public hearing held on 07.12.2005 and noted that the Project Proponent (PP) has carried out the social development activity with expenditure of **₹187.32 crore (capital) and ₹5.02 crore (recurring)**, against the earlier allocated fund of 162.89 Cr. (capital) and 2.14 Cr. (recurring) by the PP for addressing the issues raised during the Public Hearing. Additionally, the PP has carried out the Corporate Social Responsibility (CSR) activities with a total CSR expenditure ₹ 54.13 crore in period of ten years (FY2013-14 to 2023-24).
- iv. The committee agreed to amend the Additional Condition No. (xxxiv) in granted EC dated 11.01.2013, specifying that PP shall continue the CER activity addressing the concerns during the PH with annul expenditure of Rs. 5.02 crore, to be maintained till the end of the project life.
- v. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and if any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

Recommendations of the Committee:

34.2.9: In view of the foregoing and after the detailed deliberations, the Committee recommended the instant proposal for grant of amendment in the EC dated 13/06/2007 as detailed below. All other terms and conditions prescribed in EC letter dated 13/06/2007 and 11.01.2013 shall remain unchanged:

Sr. No.	Condition No. / Details of Conditions as per EC dated 13/06/2007 and 11.01.2013	Amendment Sought	Recommendation of EAC
1.	Additional Condition No. (xxxiv) “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.”	EC Condition no. (xxxiv) in said stipulation may be deleted.	The committee recommended the amending the condition as follows: “An amount of Rs.5.0 Crores shall be earmarked annually for recurring expenditure to carry out the CER activities against addressing concerned during Public Hearing (PH). Compliance status in this regard shall be submitted to the concerned Regional Office of MoEF&CC along with the six monthly compliance report.”

Agenda item No.: 34.3

34.3: 2x685 MW Super Critical and 2x800 MW Ultra-Super Critical Thermal Power Plant by **M/s. Adani Power Limited**, Raipur located at Village Chicholi, Raikheda, Galtara, and CSIDC Industrial area in Tilda Block, **Raipur District, Chhattisgarh** – **Amendment in Environmental Clearance (EC) – regarding.**
[Proposal No: IA/CG/THE/522435/2025; J-13012/62/2008-IA.II(T)]

34.3.1: M/s. Adani Power Limited, Raipur has made an online application *vide* proposal no. IA/CG/THE/522435/2025 dated 27.11.2025 along with Form 4 seeking amendment in Environmental Clearance granted by Ministry *vide* letter no. J-13012/62/2008-IA. II (T) dated 09.05.2011 and subsequent amendments in the EC dated 13.06.2013, 18.11.2014, 04.02.2015 & 09.12.2015, EC transferred dated 24.04.2023 for 1370 (2x685) MW (Phase- I, Operational), and EC dated 01.11.2024 for 1600 (2x800) MW (Phase- II, Under Construction) under the provisions of the EIA Notification, 2006, for the Raipur TPP.

Details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meeting, are given as under:

34.3.2: The Existing project of 1370 (2x685) MW was granted Environmental Clearance from Ministry *vide* letter no. J-13012/62/2008-IA. II (T) dated 09.05.2011 and subsequent amendments in the EC dated 13.06.2013, 18.11.2014, 04.02.2015 & 09.12.2015, EC

transferred dated 24.04.2023 for 1370 (2x685) MW (Phase- I, Operational) and EC dated 01.11.2024 for 1600 (2x800) MW (Phase- II, Under Construction) for Raipur TPP.

34.3.3: The Implementation status of the existing EC is as follows:

S. No.	Product	As per EC Phase-I dated 09.05.2011, subsequent EC amendments dated 13.06.2013, 18.11.2014, 04.02.2015 & 09.12.2015, EC transfer 24.04.2023, & EC Phase-II dated 01.11.2024	As per CTO dated 11.03.2025 has validity till 31.03.2028	Balance Quantity
1.	Electricity Generation	2970 MW [Phase – I: 1370 MW (2x685 MW) & Phase-II: 1600 (2x800 MW)]	1370 MW (CTO obtained vide consent order no. 11738 /TS/CECB/2025 Nava Raipur Atal Nagar, Raipur dated 11.03.2025 has validity till 31.03.2028)	1600 MW (2x800 MW) Is Under Construction.

34.3.4: Compliance status to the EC Conditions: The CCR received from IRO, MoEF&CC Raipur, vide file no. 4-11/2013(Env)/125 dated 16.08.2024 & updated CCR vide no. 4-11/2013(Env)/135 dated 13.09.2024. The Action Taken Report (ATR) submitted by APL upon the observations made by RO vide letter no. APL/Raipur TPP/ENV/2024-25/185 dated 24.08.2024 to MoEF&CC.

34.3.5: The details of the condition for which amendment is sought and justification for the same is as follows:

Conditions/ points/ S.No. of EC dated 13.06.2013	Details of Conditions as per Existing EC conditions	Amendment Sought	Justification for amendment
Specific Conditions (xxxii):	<i>“A long-term study of radio activity and heavy metals contents on coal to be used shall be carried out through a reputed institute. Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place”.</i>	<i>A long-term study of radioactivity and heavy metals contents on coal to be used shall be carried out through a reputed institute.</i> Proposed to Omit – <i>There after mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.</i>	In compliance to the stipulated condition periodically radioactivity analysis in Coal and Ash samples are being carried out on regular basis through a reputed institute “Department of Atomic Energy, Board of Radiation and Isotope Technology (BRIT)” Government of India. For Coal and Ash, heavy metal analysis is being carried out through NABL accreditation Laboratory and reports are being submitted periodically with Six monthly EC compliance report to MoEFCC, CPCB and CECB. Justification for Omit:

Conditions/ points/ S.No. of EC dated 13.06.2013	Details of Conditions as per Existing EC conditions	Amendment Sought	Justification for amendment
			For provision of Inbuilt mechanism for Continuous monitoring for radioactivity and heavy metals in coal and fly ash (including bottom ash), the technology and monitoring instruments for in-built are not available with the suppliers in the Country and is also technically not feasible to monitor in this mechanism.
Specific Conditions (xxxiii):	<i>Continuous monitoring for heavy metals in and around the ash pond area shall be carried out through reputed institutes like IIT, Kanpur and records/data maintained.</i>	“Periodic” <i>monitoring for heavy metals in and around the ash pond area shall be carried out through reputed institutes like IIT, Kanpur and records/data maintained.</i>	Justification for Amendment – For provision of Continuous Inbuilt mechanism for monitoring for heavy metals in and around the ash pond area, the technology and monitoring instruments are not available with the suppliers in the Country and is also technically not feasible to monitor in this mechanism.

Justification for the Proposed EC amendment:

In compliance to the stipulated condition periodically radioactivity analysis in Coal and Ash samples are being carried out on regular basis through a reputed institute “Department of Atomic Energy, Board of Radiation and Isotope Technology (BRIT)” Government of India. For Coal and Ash, heavy metal analysis is being carried out through NABL accreditation Laboratory and reports are being submitted periodically with Six monthly EC compliance report to MoEFCC, CPCB and CECB.

For provision of Inbuilt mechanism for Continuous monitoring for radioactivity and heavy metals in coal and fly ash (including bottom ash), the technology and monitoring instruments are not available with the suppliers in the Country and is also technically not feasible to monitor in this mechanism.

34.3.6: Summary of violation under EIA, 2006/court case/show cause/direction if any, related to the project under consideration shall be furnished;

A. Summary of Court Cases: Nil

B. Summary of Show Cause Notices: There are no Show Cause Notices pertaining to Environment & Forest.

C. Summary of violation:

Any violation case pertaining to the project on following: iv. The Environment Protection Act, 1986 v. Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980. vi. The Wildlife (Protection) Act, 1972	No case is pending related to environmental and forest.
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Observations and deliberations of the Committee:

34.3.7: The EAC observed and noted the following:

- i. Instant proposal is for seeking amendment in various conditions prescribed in the EC letter dated 13.06.2013, accorded for the project titled *“2x685 MW Super Critical Super Critical Thermal Power Plant by M/s. Adani Power Limited, Raipur located at Village Chicholi, Raikheda, Galtara, and CSIDC Industrial area in Tilda Block, Raipur District, Chhattisgarh”*.
- ii. The EAC reviewed the Specific Condition no. (xxxii) *“A long-term study of radio activity and heavy metals contents on coal to be used shall be carried out through a reputed institute. Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place”* in granted EC dated 13.06.2013. The Committee observed that such in-built continuous monitoring is currently not feasible. Accordingly, the Committee recommended amending the condition to require regular monitoring of radioactivity and heavy metals in coal and fly ash (including bottom ash) through reputed or accredited institutions, instead of continuous in-built monitoring.
- iii. The EAC reviewed test report for radioactivity and heavy metals in coal and fly ash, and found under the permissible limit and satisfactory.
- iv. Similarly, the committee noted the non-feasibility of continuous monitoring for heavy metals in and around the ash pond, as required under Specific Condition No. (xxxiii) of EC dated 13.06.2013, which states: *“Continuous monitoring for heavy metals in and around the ash pond area shall be carried out through reputed institutes like IIT, Kanpur and records/data maintained”*. Therefore, the committee recommended amending Specific Condition No. (xxxiii) to read as *“Regular monitoring for heavy metals in and around the ash pond area shall be carried out through reputed institutes like IIT, Kanpur and maintained the records/data”*.
- v. The EAC reviewed the test reports for heavy metals in and around the ash pond area and observed that the concentrations were within permissible limits and were found to be satisfactory.
- vi. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and if any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

Recommendations of the Committee:

34.3.8: In view of the foregoing and after the detailed deliberations, the Committee recommended the instant proposal for grant of amendment in the EC dated 13.06.2013 as detailed below. All other terms and conditions prescribed in EC letters dated 09.05.2011 and subsequent amendments in the EC dated 13.06.2013, 18.11.2014, 04.02.2015, 09.12.2015, 24.04.2023 for phase-I (2x685MW), and EC dated 01.11.2024 for Phase-II (2x800MW) shall remain unchanged:

Conditions/ Points/ S. No. of EC dated 13.06.2013	Details of Conditions as per Existing EC conditions	Recommendation of the EAC
Specific Conditions (xxxii):	<i>"A long-term study of radio activity and heavy metals contents on coal to be used shall be carried out through a reputed institute. Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place".</i>	Agreed. EAC recommended to modify this condition as below: <i>A long-term study of radioactivity and heavy metals contents on coal to be used shall be carried out through a reputed institute/organisation.</i>
Specific Conditions (xxxiii):	<i>"Continuous monitoring for heavy metals in and around the ash pond area shall be carried out through reputed institutes like IIT, Kanpur and records/data maintained"</i>	Agreed. EAC recommended to modify this condition as below: <i>"Periodic" monitoring for heavy metals in and around the ash pond area shall be carried out through reputed institutes like IIT, Kanpur and records/data be maintained.</i>

ANNEXURE-I

LIST OF PARTICIPANTS OF EAC (THERMAL) IN 34TH MEETING HELD ON 9TH DECEMBER, 2025 THROUGH VIRTUAL MODE

S. No.	Name & Address	Role	09.12.2025
1.	Shri Inder Pal Singh Matharu, (I.F.S. Retd.)	Chairman	Present
2.	Shri Lalit Kapur	Member	Present
3.	Dr. Umesh Jagannathrao Kahalekar	Member	Absent
4.	Dr. Santosh Kumar Hampannavar	Member	Absent
5.	Shri Savalge Chandrasekhar	Member	Present
6.	Shri K. B. Biswas	Member	Present
7.	Prof. Shyam Shanker Singh	Member	Present
8.	Dr. Vinod Agrawal	Member	Present
10.	Shri Mahi Pal Singh, Chief Engineer	Representative of Central Electricity Authority (CEA)	Present
11.	Shri Harmeet Sawhney, Scientist 'E'	Representative of Indian Meteorological Department (IMD)	Absent
12.	Prof. R M Bhattacharjee	Representative of IIT/ISM Dhanbad	Absent
13.	Shri Prasoon Gargava, Scientist 'F'	Representative of Central Pollution Control Board	Absent
13.	Shri Sundar Ramanathan	Scientist 'F' & Member Secretary	Present
14.	Dr. Rajesh Prasad Rastogi	Scientist 'D'	Present

ANNEXURE-II

APPROVAL OF CHAIRMAN – EAC

To "Sundar Ramanathan"<r.sundar@nic.in>,"RAJESH PRASAD RASTOGI"<rp.rastogi@gov.in>

Dear Sudar ji

I have gone through the final draft MoM of the 34th EAC Thermal held on 09/12/2025 sent by you. In this all the points have been incorporated which were discussed in meeting including amendments done in Zero draft of it. I agree with the above Final draft of MoM.
Hence I approve the final MoM of the 34th EAC- Thermal .

Sincerely yours

Inder Pal Singh Matharu

Chairman

EAC, Coal mining and Thermal power

MoEF&CC

Gol

On Sun, Dec 21, 2025 at 9:33 AM Sundar Ramanathan <r.sundar@nic.in> wrote:

Sir,

Please find enclosed herewith the final MoM of the 34 EAC - Thermal held on 09/12/2025 after duly incorporating the suggestions in blue color font.

Approval of Chairman is solicited for uploading the attached MoM on Parivesh portal.

With regards,
Sundar