

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



Minutes of 32th MEETING OF THE EXPERT APPRAISAL COMMITTEE (EAC) (T
HERMAL POWER PROJECTS) meeting Thermal Projects held from 30/10/20 Date: 06/11/2025
25 to 30/10/2025

MoM ID: EC/MOM/EAC/141026/10/2025

Agenda ID: EC/AGENDA/EAC/141026/10/2025

Meeting Venue: N/A

Meeting Mode: Virtual

Date & Time:

30/10/2025	02:00 PM	05:30 PM

1. Opening remarks

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. 43 - 82]

2. Confirmation of the minutes of previous meeting

Confirmation of the Minutes of the 31st Meeting of the EAC (Thermal): The minutes of the 31st Meeting of the EAC (Thermal) held during 16th October, 2025 has been confirmed by the EAC as uploaded on Parivesh.

3. Details of proposals considered by the committee

Day 1 -30/10/2025

3.1. Agenda Item No 1:

3.1.1. Details of the proposal

Expansion of Coal Based Thermal Power Plant by addition of 2x660 MW (Unit 5 & 6) as Stage-III at Bana harpalli village, Jharsuguda district, Odisha state by M/s. Odisha Power Generation Corporation Ltd. by ODISHA POWER GENERATION CORPORATION LIMITED located at JHARSUGUDA, ODISHA

Proposal For		Application for amendment in ToR (for categories A & B1)/Amendment in EC (for category B2)- Form-3	
Proposal No File No		Submission Date Sub-Activity (Schedule Item)	
IA/OR/THE/554996/202 5	J-13011/59/2008-IA.II (T)	14/10/2025	Thermal Power Plants Coal/Lignite based plants (1(d))

3.1.2. Project Salient Features

Agenda no. 32.1

32.1: Expansion of existing 1740 MW [Unit 1 & 2: 2x210 MW and Unit 3&4: 2x660 MW] Coal Based Thermal Power Plant by addition of 2x660 MW (Unit 5 & 6) as Stage-III by **M/s. Odisha Power Generation Corporation Limited located at Banaharpalli village, Jharsuguda District, Odisha - Amendment in Terms of Reference - regarding.**

[Proposal No: IA/OR/THE/554996/2025; F.No. J-13011/59/2008-IA.II (T)]

- **32.1.1:** M/s Odisha Power Generation Corporation Limited (OPGCL) has made online application vide proposal no. IA/OR/THE/554996/2025 dated 14.10.2025 along with Form-3 and sought for amendment in the Terms of Reference (ToR) accorded by the Ministry vide letter no. J-13011/59/2008-IA.II (T) dated 02.11.2023 under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at item No. 1(d) Thermal Power Plants under Category 'A' of the schedule of the EIA Notification, 2006 and appraised at the Central Level.
- **32.1.2:** The instant proposal of M/s OPGCL is for seeking amendment in the ToR accorded on 02.112023 for expansion of existing unit-1&2 (2x210 MW) and Unit-3&4 (2x660MW) by addition of unit 5 &6 (2x660MW) with respect to shifting of ash pond area 4 km away from the plant site (Area, Location & coordinates), stack height (modification in design parameters), and quantity of water consumption and effluent generation and land use area break up.
- **32.1.3:** Details of the Terms of Reference (TOR) for which amendment is sought: Terms of Reference (ToR) was accorded by the Ministry vide letter no. J-13011/59/2008-IA.II (T) dated 02.11.2023 for Expansion of Coal Based Thermal Power Plant by addition of 2x660 MW (Unit 5 & 6) as Stage-III at Banaharpalli village, Jharsuguda district, Odisha by M/s Odisha Power Generation Corporation Limited for undertaking EIA/EMP study under the provisions of the EIA Notification, 2006.

S. N o.	Terms of Reference (TOR)	Cap acit y (M W)	Date of	
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1	Expansion of Coal Based Thermal Power Plant by addition of 2x660 MW (Unit 5 & 6) as Stage-III at Banaharpalli village, Jharsuguda dist rict, Odisha by M/s Odisha Power Generation Corporation Limited		02.1 1.20 23	
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32.1.4: In pursuance to the ToR granted on 02/11/2023, following progress has been reported by the project proponent:

- · Baseline data was collected for the period October to December 2023 (Post monsoon period).
- · Public hearing was conducted at Jharsuguda district of Odisha

Date and Time: 07.07.2025 at 10:00 A.M.

Venue: Mouza Telenpali, at Hatapada Open Public Field, close to Plant boundary.

Condition No	Details of Conditions as per ToR	Amendment Sought	Justificati on
Subject	Expansion of Coal Based The rmal Power Plant by addition of 2x660 MW (Unit 5 & 6) as Stage-III at Banaharpalli villag e, Jharsuguda district, Odisha by M/s Odisha Power Genera tion Corporation Ltd Terms of References (TOR) - reg.	Expansion of Ib Thermal Powe r Station by addition of 2x660 MW (Unit 5 & 6) as Stage-III at Banharpali village, Jharsugu da district, Odisha by M/s Odi sha Power Generation Corpor ation Ltd Terms of Referenc es (TOR) - reg.	Considering a more u nique name of the Pro ject Title.
Annexure (3) Point No. V	Total water requirement is 2, 16,000 KLD including existin g water requirement of 1, 2 4,000 KLD of which fresh water requirement be met from Hirakud Reservoir. Permission obtained from Water Resource Department, Govt, of Odisha for 52.98 cusecs (1296 19 KLD) for Stage-I & II. Application was filed for 38.84 cu secs (95024 KLD) water allocation.	Total water requirement is 2, 05,600 KLD including existing fresh water requirement of 1, 24,000 KLD which is being m et from Hirakud Reservoir. Per mission obtained from Water Resource Department, Govt, of Odisha for 52.98 cusecs (1 29619 KLD) for Stage-I & II. The water requirement for stage-III will be 81,600 KLD which will be met from Hirakud Reservoir. Permission in this regard has already been obtained from Water Resource Depart ment, Govt, of Odisha for drawl of 38.84 cusecs (95024 KLD) water for Stage-III.	As MoEF&CC notification dated 11 th July-2 025, the SO2 emission standards for Category-C thermal power plants has been waived off. Since Ib Thermal Power Station (ITPS) of OPGC falls under Category-Casper classification of CPCB; there will be no requirement for installation of FGD for the proposed project, however; since the construction of FGD for the existing units have almost been completed and there is a plan to runthe FGD as of date, there will be no change in the existing water consumption data provided. For proposed Stage-III since there will be no installation of FGD, the stated water consumption for proposed unit will reduced by 10400 KLD. Thus t

Condition No	Details of Conditions as per ToR	Amendment Sought	Justificati on
			he total water require ment will be 205600 KLD in place mention ed 216000 KLD.
The details of the project An nexure (3) Point No. Vi	Effluent of 15650 KLD includ ing existing 9800 KLD quanti ty will be treated through Effl uent Treatment plant of capa city existing 9600 KLD and pr oposed 9600 KLD. The plant will be based on Zero Liquid discharge system. Sewage w ater will be treated by using existing STP- 1000 KLD.	Effluent of 15602 KLD including existing 9800 KLD quantity will be treated through Effluent Treatment plant of capacity existing 9600 KLD and proposed 9600 KLD. The plant will be based on Zero Liquid discharge system. Sewage water will be treated by using existing STP- 1000 KLD.	As MoEF&CC notification dated 11th July-2025, the SO ₂ emission standards for Category-C thermal power plants has been waived off. Since Ib Thermal Power Station (ITPS) of OPGC falls under Category-C as perclassification of CPCB; there will be no requirement for installation of FGD for the proposed project, however; since the construction of FGD for the existing units have almost been completed and there is a plan torun the FGD as of date, there will be no change in the existing effluent generation dataprovided. For proposed Stage-III since there will be no installation of FGD, the stated effluent generation for proposed unit will reduced by 48 KLD.
The details of the project An nexure (3) Point No. Viii	2 units of 660 MW Turbine g enerator sets of coal fired bo iler operated with supercritic al steam parameters. Electro Static Precipitators with a sta ck of height of 150 m will be installed for controlling the p articulate emissions within th e statutory limit of 30 mg/N m3.	2 units of 660 MW Turbine ge nerator sets of coal fired boile r operated with supercritical s team parameters. Electro Stat ic Precipitators with a stack of height of 275 m will be install ed for controlling the particul ate emissions within the statu tory limit of 30 mg/Nm3.	As MoEF&CC notifica tion dated 11th July-2025, the SO ₂ emissi on standards for Cate gory-C thermal power plants has been wai ved off. Since Ib Thermal Power Station (IT PS) of OPGC falls under Category-C as perclassification of CPC B; there will be no requirement for installation of FGD. Thus regulation of minimum st

Condition No	Details of Conditions as per ToR	Amendment Sought	Justificati on
			ack height of 275 m will be applicable
Annexure (3) Point No. Xii 5. Details of fu el and Ash dis posal Ash Pond/ Dyk e (Area, Locatio n & Coordinat es) Average height of area above MSL (m)	N 83°55'06.0 7"E Ash pond site:187m (MSL) to 208 m (MSL)	Ash Pond / Dyke - Area:109.3 8 ha An area of 109.38 ha for Ash Pond has been identified and will be acquired. The identifie d piece of land is around 4 K m (Aerial) distance from the P lant Boundary & is situated at Kumarbandh village. Details GPS	Ø It came in to notice that the identified land of 131.523 h a at Adhapada villa ge which was adja cent to the plan b oundary was notified by MCL under Coal Bearing Act in the year 1985. This was intimated to OPGC by MCL vide its Letter date 03.05.2025. Ø The above mention ed land of 131.523 ha at Adhapada village is covered with thick vegetation with high canopy density and construction of ash pond in this location would have led to felling of large number of trees.
Point No. Xii 5. Stack Heigh t (m) & Type o f Flue	One (1) twin-flue chimney wi th common windshield for the two units have been envisa ged for the proposed power station. The total height of the chimney has been considered as 150 m. The flues will be of mild steel construction with glass wool insulation. The chimney windshield would be of RCC slip-form construction.	One (1) twin-flue chimney with common windshield for the two units have been envisaged for the proposed power station. The total height of the chimney has been considered as 275 m. The flues will be of mild steel construction with glass wool insulation. The chimney windshield would be of RCC slip-form construction.	As MoEF&CC notifica tion dated 11th July-2025, the SO2 emissi on standards for Cate gory-C thermal powe r plants has been wai ved off. Since Ib Ther mal Power Station (IT PS) of OPGC falls un der Category-C as pe r classification of CP CB; there will be no r

Condition N	Details of Conditions as per ToR	Amendment Sought	Justificati on
			equirement for install ation of FGD. Thus re gulation of minimum stack height of 275 m will be applicable
Point No. Xii 6. Water Req rement Quantity of w ter requirement t:	Proposed: 3800 m ³ /hr (9200 0 KLD) Upon Expansion: 8933 m ³ /hr (216000 KLD)	Existing: 5166 m³/hr (124000 KLD) Proposed: 3400 m³/hr (8160 0 KLD) Upon Expansion: 8566 m³/hr (205600 KLD)	As MoEF&CC notifica tion dated 11 th July-2025, the SO2 emissi on standards for Cate gory-C thermal powe r plants has been wai ved off. Since Ib Ther mal Power Station (IT PS) of OPGC falls un der Category-C as per classification of CP CB; there will be no requirement for install ation of FGD for the proposed project, however; since the construction of FGD for the existing units have almost been completed and there is a plantor run the FGD as of date, there will be nochange in the existing water consumption data provided. For proposed Stage-III since there will be no installation of FGD, the stated water consumption of for proposed unit will reduced by 1040 O KLD. Thus the total water requirement will be 205600 KLD in place mentioned 216 000 KLD.
Point No. X ii 7. Land are a Breakup: Land Requi rement: a) TPP Site b) Ash Pon d	Land Requirement: Existing (Stage-I & II): a) TPP site including township: 2 63.637 Ha b) Vacant or unutilized land: 60. 703 Ha c) Ash Pond: 350.17 Ha (Outside Plant) d) MGR: 294 Ha	Land Requirement: Existing (Stage-I & II): a) TPP site including townshi p: 262.561 Ha b) Vacant or unutilized land: 6 0.703 Ha c) Ash Pond: 231.04 Ha (Outs ide Plant) Note:98 Ha of Ash Pond-B h	Ø It came in to notice that the identified land of 131.523 h a at Adhapada villa ge which was adja cent to the plan b oundary was notifi ed by MCL under Coal Bearing Act i

Condition N	o Details of Conditions as per ToR	Amendment Sought	Justificati on
c) Townshi p d) Railway Siding & O thers e) Raw Wa ter Reservo ir f) Green B elt g) Others	e) Raw water reservoir: 0 Ha f) Green Belt: 172.579 Ha g) Others: 0 Ha Land Requirement: Proposed (Stage-III): a) TPP site including township: 6 0.703 Ha b) Vacant or unutilized land: 0 H a c) Ash Pond: 131.523 Ha (Adjace nt to Plant) d) MGR: 294 Ha e) Raw water reservoir: 0 Ha f) Green Belt: 0 Ha g) Others: 0 Ha Note: • Stage-III installation (main plan t & auxiliaries) will be carried out in an area of 60.703 Ha o f Vacant land available adjace nt to existing Stage II (2 x 66 0 MW) of area 263.637 Ha in cluding township facilities. • No additional land is proposed to be acquired for the Stage- III project. • To cater future requirement of ash pond 131.523 Ha land wi Il be identified and acquired a s per MoEF&CC Guideline i.e. 0.1 ha / MW.	as been capped & reclamati on certificate has already be en obtained from OSPCB. 2 1.13 Ha area of land has bee n kept as buffer & unutilize d to maintain a minimum dis tance of 500 m from HFL of Hirakud Reservoir. d) MGR: 294 Ha e) Raw water reservoir: 0 Ha f) Green Belt: 173.453 Ha g) Others: 0 Ha Land Requirement: Proposed (Stage-III): a) TPP site including townshi p: 60.703 Ha b) Vacant or unutilized land: 0 Ha c) Ash Pond: 109.38 Ha (Outs ide Plant) d) MGR: 0 Ha e) Raw water reservoir: 0 Ha f) Green Belt: 0 Ha g) Others: 0 Ha Note: · Stage-III installation (main pl ant & auxiliaries) will be ca rried out in an area of 60.7 03 Ha of Vacant land avail able adjacent to existing S tage II (2 x 660 MW) of ar ea 262.561 Ha including t ownship facilities. · No additional land is propos ed to be acquired for the Stage-III project (Main Pla nt Area). · To cater future requirement of ash pond 109.38 Ha lan d will be identified and acq uired as per MoEF&CC Gui deline i.e. 0.1 ha / MW.	n the year 1985. This was intimated to OPGC by MCL vide its Letter date 03.05.2025. The above mention ed land of 131.52 and at Adhapada village is covered with thick vegetati on with high canopy density and construction of ash pond in this locati on would have led to felling of large number of trees.
Point No. X ii 7. Land are a Breakup Status of L and Acquisi tion	The complete land is in possessi on of OPGCL and work can be st arted immediately without any hindrance.	The land for main plant area (60.703 Ha) is in possession of OPGCL (Inside existing plant boundary) and work can be started immediately without any hindrance. For Ash pond 109.38 ha land has been identified and will be acquired.	Ø It came in to notice that the identified land of 131.523 h a at Adhapada villa ge which was adja cent to the plan b oundary was notified by MCL under Coal Bearing Act i

Condition No	o	Details of Conditions as per ToR	Amendment Sought	Justificati on
		e-KYC		n the year 1985. This was intimated to OPGC by MCL vide its Letter date 03.05.2025. The above mention ed land of 131.52 and at Adhapada village is covered with thick vegetati on with high canopy density and construction of ash pond in this location would have led to felling of large number of trees.
Point No. X ii 7. Land are a Breakup: Break-Up o f land-use of TPP site: a. Total lan d required for project component s b. Private I and c. Govern ment land d. Forest la nd	a. cc b. c. g)	reak-Up of land-use of TPP site Total land required for project components - 60.703 ha Private land - 0 ha Land already acquired (existin) - 60.703 ha Forest land - 0 ha	Break-Up of land-use of TPP s ite a. Total land required for project components – 60.703 ha (Main Plant) b. Land already acquired (existing) for Main Plant area – 60.703 ha c. Private Land for Ash Pond-107.81 Ha d. Govt. Land for Ash Pond-1.56 Ha d. Forest land – 0 ha	Ø It came in to notice that the identified land of 131.523 h a at Adhapada villa ge which was adja cent to the plan b oundary was notified by MCL under Coal Bearing Act in the year 1985. This was intimated to OPGC by MCL vide its Letter date 03.05.2025. Ø The above mention ed land of 131.52 3 ha at Adhapada village is covered with thick vegetati on with high canopy density and construction of ash pond in this location would have led to felling of large number of trees.
TOR Applic ation Part-B Point No. 9.2 Whether a ny clearanc	N	O	Yes 610 Numbers of trees to be felled	During drone videogr aphy, trees were obse rved in the proposed plot plan of Unit#5 & Unit#6. Besides some trees which were less than 30 cm girth widt

Condition No	Details of Conditions as per ToR	Amendment Sought	Justificati on
e of existin g vegetatio n due to pr oject activi ty?			h a couple of years ba ck has increased in gir th diameter. Hence tr ee felling is envisage d.

32.1.7: 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

S. No	Case No/Title	Name of the Court	Brief summary of the case	Last date of hearing	Next date o f hearing	Direction / Action taken by the PP
1	Original Applic ation No.89/2024/E Z	NGT	This matter portent to the breach of Ash Pond-C was occurred on 09.12.2 023. The Applicant Gopinath Majhi is the General Secretary of Hirakud Budi Anchal Sangram Samiti, a forum to protect the interest of displaced persons of Hirakud Dam Project. It has been alleged that OPGC is not able to manage the Flyash in the existing capacity.	12.09.202	25.11.2025	Case is pe nding
2	OHRC Case N o. 3475/2023	OHRC	Suo-Motu case Dispute r elated to breaking of ash pond.	19.04.202 5	Not a	Case is pe nding

Note: Apart from the above 2 nos, of court cases related to environment, 58 nos. of non-environment (Arbitr ation, service, MSME etc.) related court cases are pending at different courts.

B. Summary of Show Cause Notices (Last two years)

S. N o	Issuing a uthority	Date	Reasons for is suance of SC	Status of re ply submissi on	Present status
1	MoEF&C C	26.10.20 24	Show cause N otice under Se ction-5 of Envi ronment (Prot ection) Act, 19 86 for Non-Co	In this regard point wise co mpliance rep ort had been submitted to MoEF&CC co	In this regard, a person al hearing had been con ducted at MoEF&CC on 01.10.2025 under the c hairmanship of Joint Se cretary.

S. N	Issuing a uthority	Date	Reasons for is suance of SC N	Status of re ply submissi on	Present status
	KYA	Q. M	mpliances obs erved with res pect to the pro ject (Expansion of existing Coal Based Therm al Power Plant by addition of 2×660 MW(Unit 3 & 4) at village Banharpali, in Jharsugud a District on Orissa by M/s OPGC Ltd.	mpliance divi	All submissions of OPG C in regard to non-com pliance/ partially compli ed points have been consider as complied and the committee suggest ed OPGC to apply for E C amendment with respect to the condition of Green Endowment Fund as OPGC has already surplus the statutory requirement of 33% and uses fund for development of Green Belt. The proceedings of the said meeting is expected to be circulated shortly.

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 Wild Life (Protection) Act, 1972

No violation case pertaining to this project.

3.1.3. Deliberations by the committee in previous meetings

N/A

3.1.4. Deliberations by the EAC in current meetings

Observations and Deliberations of the Committee

32.1.8: The Committee noted the following:

Recommendations of the Committee

32.1.9: In view of the foregoing and after deliberations, the Committee *recommended to return the proposal in its present* form and asked the proponent to revisit the entire application by incorporating all the technical shortcomings inter-alia including the above and thereafter proposal shall be submitted by the proponent for fresh consideration by the EAC.

3.1.5. Recommendation of EAC

Returned in present form

3.2. Agenda Item No 2:

3.2.1. Details of the proposal

Amendment in EC of 4X600 MW Thermal Power Plant of M/s Jindal Power Ltd. at Village Tamnar, Taluk Gharghoda, District Raigarh (Chhattisgarh) by JINDAL POWER LIMITED located at RAIGARH, CHHATTISGA RH

Proposal For		Amendment in EC		
Proposal No File No		Submission Date Activity Sub-Activity (Schedule Item)		
<u>IA/CG/THE/472414/202</u> J-13012/117/2008-IA.II(<u>4</u> T)		14/06/2024	Thermal Power Plants Coal/Lignite based plants (1(d))	

3.2.2. Project Salient Features

Agenda no. 32.2

32.2 4x600 MW Thermal Power Plant by M/s. Jindal Power Limited (JPL) at Villages Tamnar, Taluk Gharghoda, District Raigarh, Chhattisgarh - Reconsideration for Amendment in Environmental Clearance based on ADS reply - reg.

[Proposal No. IA/CG/THE/472414/2024; F. No. J-13012/117/2008-IA. II (T)]

32.2.1: M/s. Jindal Power Limited has made an online application vide proposal no. IA/CG/THE/472414/2024 dated 10/05/2024 seeking for amendment in Environmental Clearance dated 18.03.2011 and its subsequent amendment granted therein for the project namely "4x600 MW unit Coal based Thermal Power Plant located at Village Tamnar, Taluk Gharghoda, District Raigarh, Chhattisgarh" by M/s Jindal Power Limited (JPL) for utilization of existing ash dyke of 4x250 MW situated in an area of 198 Ha for 4x600 MW TPP. Due to this proposed amendment, there will be no ash pond for 4x600 MW TPP and area of 236 Ha meant for ash pond will be used for other purposes.

The above proposal was earlier considered by the EAC – Thermal in its 11th meeting held on 27-28th June, 2024 and recommended for amendment in EC subject to stipulation of additional environmental safeguards. Subsequently, the proposal was again referred back to the EAC with an observation that whether EAC has taken into consideration scheduled action plan and asked for any inspection. Accordingly, the proposal was again considered by the EAC in its meeting held on 1/10/2024 wherein EAC deferred the proposal for want of additional information and also recommended for a site visit by the sub-committee of EAC – Thermal. The site visit by the sub-committee was completed during 3-4th January, 2025 and the proponent submitted the reply to the additional information through Parivesh on 06/02/2025. The said proposal was further placed before the 20th EAC meeting held on 24/02/2025, wherein the committee partially recommended for amendment in EC to use existing ash dyke of 4x250 MW for 4x600 MW TPP for 2 year i.e. till 30.06.2026 subject to stipulation of additional environmental safeguards. The proposal was again referred back to the EAC by the Ministry for further examination regarding adequacy of existing ash dyke of 4x250 MW. Accordingly, the proposal was placed before the EAC in its meeting held on 20/06/2025 wherein the Committee deferred

the proposal and sought for a closure report against the 31 non-compliances as reported in the certified compliance report dated 25/04/2025 including the non-compliance to the provisions contained under the ash utilization notification 2021 for the existing ash dyke of 4x250 MW. Further, proponent was requested to submit the circular slip analysis of the existing ash dyke of 4x250 MW to ensure the stability of the same as it has been proposed to be used for disposal of ash from 4x600 MW forever.

Propoent has uploaded the additional information on PARIVESH web portal on 14/10/2025 and the same was considered by the EAC in its 32^{nd} meeting held on 30/10/2025. **32.2.2: Details of the EC for which amendment is sought:**

S.	Details of the EC for white	EC date	COD	Status of impleme	
No.	00			ntation	
1.	2x250 MW (Phase I)	24.09.199 7	08.12.2007 & 15.06. 2007	Fully implemented a nd the units are und er operation	
2.	2x250 MW (Phase II)	08.06.200 6	16.04.2008 & 05.09. 2008	cr operation	
3.	2x600 MW (Units#1& 2)	18.03.201 1	27.08.2014 & 09.11. 2014		
4.	2x600 MW (Units#3& 4)	04.11.201		pss	
S No	Date of accord of EC amendment		Remarks		
a.	10.01.2014	Amendment in EC w.r.t. transportation of coal, utilization of existing ash dyke of 4x250 MW for 4x600 MW TPP for 03 years.			
b.	26.04.2017	f existing as l construction mported to	in EC w.r.t. transportation by the for 4x600 MW TPlen of new dyke & change domestic, change in located to near Dolesara village	P for 02 more years tile in coal source from ition of proposed dyke	
C.	28.08.2020	Amendment in EC for extension of permission for transation of coal, utilization of existing ash dyke for 4x600 TPP till October, 2021.		-	
d.	28.10.2021	Amendment in EC for extension of permission utilization of existing ash dyke for 4x600 MW TPP till December, 2022.			
e.	24.02.2023		in EC for extension of pedyke for 4x600 MW TPP		

Specific/General Condition No	Details of Conditions a s per EC	Amendment S ought	Justification
Condition no. 3, 4 & 5 of the EC am endment dated 2 4.02.2023.	MoEF&CC has granted p ermission to use existing ash dyke of 4x250 MW f or disposal of unutilized ash of 4x600 MW till Jun e, 2024.	Permission to continue use of existing ash dyke of 4x250 MW for unutilized a sh of 4x600 MW permanently.	 To conserve the land and maximize ash utilization, the Company has plan ned to not construct the new ash dyk e for 4X600 MW on an area of 236 h ectares which was permitted by MoE F&CC. As the Company is utilizing about 1 00% ash, the existing ash dyke volum e will be adequate to continue botto m ash disposal from 4x250 MW and 4x600 MW TPPs.

32.2.3: Adequacy of the existing ash dyke of 4x250 MW in 198 Hectares

Details of Annual Ash Generation, Utilisation and Disposal in Ash dyke (in lakh metric tons)

TPP		Total Asl neration	n Ge	Fly A sation	sh Utili 1		ottom Ash dis osal in Ash dy	Remarks	
4x250	0 MW	23.1		18.48		4.0	52		excavated fr dyke and util
4x600	O MW	<mark>61.</mark> 81		49.45		12	2.36	ise <mark>d i</mark> n mine	•
Total		<mark>84.</mark> 91		67.93		16	5.98	utili <mark>se</mark> d	asii is beilig
S N o.	De	tails	_	oon 1 A	Lagoon B	1	Lagoon 2A	Lag <mark>oo</mark> n 2B	Total
	ke (Act usted-	of ash dy live/ Exha Yet to be ed/ reclai	h As avat	ve wit sh exc ion in gress	Active		Active	Capping is in progress	
	Area (h	a)	5	2.6	68.8		42.7	33.9	198
	Dyke H	eight (m)	V		· • y	ICI.	18 m		
	Volume	(m ³)	668	0000	812000	00	4440000	2360000	21600000
	Quantity of ash stored (metric tons)		164.	164.5 Lakh Metric tonnes till 29 th Oct 20		025			
	in perce	le volume entage an city of ash		.7% 4500	14.5% 108900		24.67% 103050 0	0% 0	13.2% 2664000 Metric ton

S N o.	Details	Lagoon 1 A	Lagoon 1 B	Lagoon 2	Α	Lagoon 2B	Total
	that can be furth er disposed (Metric tons)						s (296000 m ³)
	Expected Life of ash pond (numb er of years and months)	119 days	239 days	226 day s		0 days	584

The bottom ash (around 20% of the total ash generated) from the Power Plant has to be evacuated in slurry form and disposed to the ash dyke before the same can be dried and utilized. JPL is achieving the 100% ash utilization by utilizing the complete fly ash (which is 80% of the total ash generated) which is collected and evacuated in dry form, and by excavating and subsequently using the dried ash (approx. 20% of the total ash generated) from the ash dyke. Thus the company has sufficient volume available in the ash dyke for disposal of bottom ash in the ash dyke.

Action plan for excavation and use of already stored ash in the ash dyke

Year	Ash planned to be excavated (La khs metric tons)	Lagoon	Use of excavated ash
	17.25	1A, 1B & 2A	For mine void backfilling
	17.25		
	17.25	S. Priote	
	17.25	she is	.20
	17.25	REEL	5
	17.25	1.0	540
	17.25 C-Payn	nents	
	17.25		
	17.25		
	17.25		
	172.5		

Thus, concurrent excavation and utilization of ash from the ash dyke will enhance the volume availability in the existing ash dyke. The expected life of ash dyke, basis the above mentioned excavation and utilization plan, will increase from 1.6 years till the life of the 4x250 MW &

4x600 MW TPP.

32.2.4: Study regarding Slope Stability of Ash dyke

The Department of Civil Engineering, National Institute of Technology (NIT) Raipur conducted the stability analysis. NIT Raipur submitted the Stability Analysis report on 01.01.2025. The slope stability analysis of ash dyke for both normal and Earthquake condition were done by circular slip analysis with the Geo-studio software.

The conclusion and recommendations of the report is:

"The ash dyke is analysed for steady seepage condition (normal) and steady seepage earthquake condition (seismic) for local and global stability analysis. Factor of Safety are obtained more than 1.5 to 1.0 for normal and seismic loading conditions, which fulfils the acceptance criteria for minimum factor of safety required as per IS 7894: 1975 (Reaffirmed 2002), "Code of practice for stability analysis of earth dams." Therefore, it can be concluded that:

- a. Ash dyke with 4th stage raising is observed to be stable and safe with current existing (fly ash filling and water ponding) condition and expected to perform satisfactorily.
- b. However, continuous inspection/ examination of the ash dyke is required periodically."

 Measures taken by JPL for implementation of the recommendations of NIT Raipur are tabled below:

S No.	Recommendation of the NIT Raipur	Measures being taken by JPL
	Internal drainage system: for efficient functioning of the existing and raised embankment, the internal drainage system consists of rock toe, drains etc. should perform satisfactorily and shall be cleaned periodically.	Status : Complied.
	Soil cover: Ash embankment shall be covered w ith non-erodible soil cover of at least 0.5 m thic kness with natural soil and compacted to maint ain required dry density of 95% of Maximum Dry Density (MDD)	The embankment has been covered with 0.5 mtr. thick soil and 95% maximum dry density is being maintained. Status: Complied.
	Regular Survey of the site and monitoring the condition of the ash dykes, lagoon and surrounding soil is required to ascertain the safety of the ash dyke. Situations which are considered as undesirable i.e. formation of cracks, gulleys etc. in and around the ash dyke can be avoided by early detection.	An internal Dyke Committee e nsures weekly visit and submit report to the Plant head to asc ertain the safety of the dyke. Status: Complied.
	An effective groundwater control of the decant ation of the ash dyke lagoon and surface water management during rainy seasons is utmost im portant. It shall be instrumental for maintaining the static stability with permissible limits.	The toe drain, slope drain, cro ss drain are directed to Ash w ater recovery system (AWRS). The decantation well is conne cted to AWRS through underg round of Hume pipe 1000 MM dia. Status: Complied.

S No.	Recommendation of the NIT Raipur	Measures being taken by JPL
	Good practices like instrumentation and monito ring of the ash pond should be implemented. Surface settlement and movement markers can be an important instrumentation to check the time wise deformations.	Instrumentation like Piezomet er, settlement marker are alre ady installed and being monito ring on regular basis. Status: Complied.
	All the slopes shall be properly maintained. Tre es and large root plants shall not be allowed to grow on slopes.	Slope is well maintained and b eing monitored on regular basi s. No trees or plant roots are t here on the slopes. Status: Complied.
	All slopes must be clear properly so that any dis tress occur in these portion shall be identified i mmediately.	All slope are properly maintain ed and being monitored on regular basis. Status: Complied.

NIT Raipur vide its letter dated 04.08.2025 has clarified that the factor of safety obtained from circular slip analysis are more than 1.5 – factor of safety obtained as 2.21 to 2.67 for normal conditions and and 1.52 to 1.89 for earthquake loading conditions. It has been further clarified that the above obtained FOS meets the acceptance criteria as per IS 7894: 1975.

32.2.5: Compliance to the observations of EAC sub-committee site visit report: The Subcommittee of EAC – Thermal visited the project site on 03rd Jan to 04th Jan 2025. The recommendations of the Subcommittee of EAC – Thermal and its compliance status by the proponent are as below:

S l. N	EAC sub-committee recommendation	Compliance status
1.	The PP should ensure that the back filling of mine voids in combination with over burden material is carried out under care of environmental safe guards in compliance with the guidelines of DGMS and CPCB.	Being complied All out efforts are being made to utilize ash in accordance with the Fly ash utilization notification. Currently, JPL is utilizing the fly ash in back filling of mine al ong with OB in Gare Palma IV/1 and Gare Palma IV/2&3 coal mines owned by JPL, Tamnar as per approved mine plan and guidelines of DGMS & CPCB guidelines.
2.	PP should carry out regul ar monitoring of the area around back filling site to	Being complied JPL has engaged IIT-Kharagpur and CIMFR, Dhanbad for mo nitoring of long-term impacts of dumping of fly ash and lea

S l. N	EAC sub-committee rec ommendation	Compliance status
	ensure there is no leachin g or deterioration of any environmental parameter particularly w.r.t. Ground Water and Surface water sources.	ching of heavy metals on soil and water of study area. There is no sign of deterioration of any environmental para meter w.r.t Ground water or surface water sources due to t he backfilling.
3.	9	The Conclusion of the studies carried out by IIT, Kharagpur, CIMFR, Dhanbad and NIT Raipur w.r.t. the impact analysis of back filling of mine voids and slope stability of ash dyke are as below: Conclusion of NIT Raipur Report on Slope Stability of Ash dyke: The ash dyke is analysed for steady seepage condition (nor mal) and steady seepage earthquake condition (seismic) for local and global stability analysis. Factor of Safety are obtained more than 1.5 to 1.0 for normal and seismic loading conditions, which fulfils the acceptance criteria for minimum factor of safety required as per IS 7894: 1975 (Reaffirmed 2002), "Code of practice for stability analysis of earth dams." Therefore, it can be concluded that: sh dyke with 4th stage raising is observed to be stable and safe with current existing (fly ash filling and water ponding) condition and expected to perform satisfactorily. However, continuous inspection/ examination of the ash dyke is required periodically. Conclusion of latest IIT Kharagpur study: The following specific conclusions are derived: 1. The possibility of air quality degradation, due to the practice of fly ash-mixed dumping has not been observed, based on the air quality monitoring of the studied stations during the study period. 2. The heavy metal concentrations (in both surface and ground water samples) did not exceed the permissible limits, hence, heavy metal poisoning of surrounding flora, fauna and other aquatic lives are not seen to be imminent threats. 3. The geo-environmental contamination level due to current mining activities (including fly-ash mixed backfilling) has showed no significant evidence to impact the lives of flora, fauna and other aquatic lives in the surrounding areas. Conclusion of latest CIMFR Dhanbad study: No major impacts observed on the soil physicochemical par ameters of the area due to mining activity. As per soil physic

S l. N o	EAC sub-committee rec ommendation	Compliance status
	by de commoliance	al parameters reclaimed site with fly ash is well managed to develop vegetation and ecosystem which may be similar to natural forest. Overall all the physicochemical parameters f or all sampling sites are similar to the samples from forest a rea. Quality assessment of groundwater for drinking purposes s uggest that concentration of most of the analyzed paramet ers are within the recommended drinking water limits of BIS (2012). All the analysed parameters of the surface water collected a re well within the prescribed limits of surface water quality standards under class C of IS:2296 and can be used for drin king purposes after conventional treatment followed by disi nfection. The analysis results of mine water collected from proposed mine voids shows that pH are within the recommended ran ge of 5.5 - 9.0 for effluent discharge. Concentrations of F-, Cl-, SO42- and NO3- in the analysed mine water samples are below the specified limits for effluent discharge. All the measured metals like Fe, Mn, Pb, Zn, Cu, Cr, Cd, Ni, As and H g are also observed below the recommended limits for effluent discharge in inland surface water. TCLP test and study of radioactivity of radionuclide in coal a sh samples shows no major impacts on the water quality parameters of the area due to disposal of coal ash in mine voi ds. The data indicates that the air quality in these locations are within acceptable standards concerning heavy metal conta mination, ensuring a safer environment for the residents. Re gular monitoring is recommended to maintain these standards and to identify any potential changes in the concentrations of these metals over time.
4.	M/s JPL should also work to enhance the utilization of fly ash in areas such as Cement manufacturing, b rick, and tiles and hollow block manufacturing and highways construction et c.	Being complied The Company is also supplying the ash to JSP cement plant and nearby brick plants as per their requirements. Further th e company provides the ash for road/ highway construction as and when the requirement arises.
5.	For control of SO ₂ emissi	As per the MoEF&CC's Gazette Notification G.S.R.465 (E) d

S l. N	EAC sub-committee rec ommendation	Compliance status
	ons PP should install FGD systems at the earliest as per the provisions of OM of date 30/12/2024 as is sued by MoEF&CC.	ated 11.07.2025, the TPP at Tamnar is categorized as Category C and thus the condition to install FGD is not applicable on Category C TPPs.
6.	PP should make roadside plantation along the tran sport route of coal.	Being complied Avenue plantation along the route (both sides of the road) of coal transportation from is being done on continuous ba sis. The Company has already planted approx. 1 lakh sapling on the road side.
7.	Miyawaki plantation shou ld also be done by PP in t he plant area.	JPL has done Miyawaki plantation during monsoon season in the nearby area of plant.

32.2.6: Certified compliance report of the existing ECs

MoEF&CC was in receipt of certified compliance report for the existing ECs on 25/04/2025. The report was deliberated in the EAC meeting held on 20/06/2025 wherein EAC sought for closure report against the 31 non-compliances as reported in the certified compliance report dated 25/04/2025 including the non-compliance to the provisions contained under the ash utilization notification 2021 for the existing ash dyke of 4x250 MW. The report in this regard was issued by the RO on 23/09/2025. Details of the non-conformities obaserved in the said report and the present status as reported by the proponent is given as below:

S.N o.	EC Condition	Abridged comments of Sub-Offic e, Raipur as per report dated 23.0 9.2025	Reply of JPL
		This Sub-Office is not accepting the reply submitted by the Project Authority on account of the following facts:	· It is submitted that the Cross Country Pipe Conveyor (CCPC) is connecting the TPP with the Gare Palma IV/2 & IV/3 coal mi ne. Gare Palma IV/1 coal mine is adjacen
		· Coal transportation for the above Thermal Power Plant is still bei ng continued through trucks b y road and partly through Cros s Country Pipe Conveyor (CCP C). Further existing Cross Coun try Pipe Conveyor (CCPC) is no t connected till their captive C	t to the GP IV/2 & IV/3 coal mine and th us the coal from these mines to the TPP is transported through CCPC only. • Further it is submitted that the coal being s ourced under Fuel Supply Agreement (F SA) from MCL mines has to be transport ed by road. • The coal transportation by road from MCL
		oal Mines, since CCPC work for part of the stretch connecting the Mines yet to be completed. Project Authority relied upon the	mines to TPP at Tamnar has been deliber ated by the Hon'ble NGT in the O.A. no. 70/2023 and through its judgment date d 08.11.2024 has held that in absence o

S.N o.	EC Condition	Abridged comments of Sub-Offic e, Raipur as per report dated 23.0 9.2025	Reply of JPL
	bz ₁ y ₁	Ministry's gazette notification S.O. 1561 (E) dated 21/05/20 20 and the judgment dated 08/ 11/2024 in the O.A. No. 70 of 2023. The said gazette notifica tion S.O. 1561 (E) dated 21/0 5/2020 mandates compliance of several conditions referred therein. Further, the order date d 15/02/2022 of Hon'ble NGT in the O.A. No.104 of 2018 in the matter of Shivpal Bhagat & Ors. Vs UOI has been passed a fter the above said Ministry's gazette notification S.O.1561 (E) dated 21/05/2020. The said Order dated 15/02/2022 of Hon'ble NGT has not been strike down by any appellate Tribunal/Court. Further, Project Authority in their reply referred another NGT Or der dated 08/11/2024 and in the said Order also Hon'ble NGT (CZ) expressly directed that the railway route for this project must be completed by 01/04/2025. Project Authority has not complied with the recommendations covered in the Order dated 15/0 2/2022 of Hon'ble NGT in the Original Application No.104 of 2018. Non-compliance of the NGT orders will tantamount contempt of the Hon'ble Tribunal and thus Ministry may take appropriate view based on the reply of the Project Authority and prevailing various Judicial Order s.	f Railway infrastructure, the transportati on of coal for the Power Plant is require d to run the plant. It is further submitted that the construction of Railway line that is being undertaken by South East Central Railway and the transportation of coal from MCL mines to JPL Tamnar has to be done by the road till the completion of the line.
	Condition no. (i v) of EC J-1301 1/15/93-II(T) da ted 24.09.1997	In the observed non-compliances, i t was sought implementation detail s regarding Compensatory Afforest ation and catchment area treatmen t plan. In the ATR, Project Authority has not provided any supporting do cuments regarding implementation of Compensatory Afforestation and catchment area treatment plan as s	· It is humbly submitted that the implementa tion of CA is carried out by the State For est Department and the Company does not have any control over the implement ation of CA scheme to be undertaken by the State Government Department. · Catchment area treatment plan has been im plemented and the information regardin g the implementation of the same was s

S.N o.	EC Condition	Abridged comments of Sub-Offic e, Raipur as per report dated 23.0 9.2025	Reply of JPL
		tipulated and thus no comments ar e offered by this Office. Ministry m ay take appropriate view.	ubmitted to MoEF. Copy of the supporti ng document have been submitted.
	Condition no. (i x) of EC J-1301 1/15/93-II(T) d ated 24.09.199 7	Based on the third-party report on monitoring & evaluation of Green Belt / plantation made available dur ing the visit, this Office has already reported the factual status. Project Authority has not made available any supporting document in their ATR regarding details submitted to the Ministry by 31st December, 1997 as stipulated in the condition and thus no comments are offered. Ministry may take appropriate view based on the compliance details available with the Ministry.	 IRO has already reported that the Green be elt has been developed which has been done as per the stipulation and as per the e CPCB guidelines. However, the IRO has mentioned that the details of submission of green belt proposal to MoEF in 1997 has not been provided. In this regard, it is submitted that the company could not find the relevant document which must have been submitted in 1997 i.e. 28 years ago. It is humbly submitted that in light of the development and maintenance of satisfactory green belt, the condition has been complied with.
	Condition no. (xii) of EC J-130 11/15/93-II(T) dated 24.09.19 97	Project Authority has not made available any corrective action taken on the observation rather relied upon the Ministry's Notification dated 2 1/05/2020. In this regard, it is sub mitted that the Coal from the captive mines (Gare Palma mines) is being transported partly by road and partly through Cross Country Pipe Conveyor (CCPC). Coal sourced from other mines/places are being transported through trucks by road. Though provision has been made for collection of fly ash in dry form, As h slurry transportation system has also been installed for disposal of fly ash in the ash dyke. In case of utilization in mine void back filling and land filling, wet ash with moisture is being transported in covered trucks. In view of the above, the condition is partly complied with.	 Coal from Gare Palma IV/1 and Gare Palma IV/2 & IV/3 coal mines is transported usi ng existing Cross Country Pipe Conveyor (CCPC). Only coal procured from MCL under Fuel S upply Agreement (FSA) has to be transp orted by road as there is no railway infra structure. As has been reported by the IRO, wet ash f or backfilling is being transported in cov ered trucks. The Company is ensuring th at the ash is not being transported in dry form to prevent the fugitive emissions.
	Condition no. (xiv) of EC J-13 011/15/93-II(T) dated 24.09.19 97. Condition no. (i i) of EC letter	Project Authority has not made available any document in support of 1 00 percent fly ash utilization achieved within 10 years from the year of operation of the project. 100% fly ash utilization has not been achieved within 9 years.	Through continuous efforts, the Company h as been able to achieve 100% ash utilisat ion now. Ash utilisation achieved by the TPP during la st 05 years is as below: Year 4x250 MW 4x600MW

S.N o.	EC Condition	Abridged comments of Sub-Offic e, Raipur as per report dated 23.0 9.2025	Reply of JPL		
	J-13011/8/200 6-IA.II(T) dated 08.06.2006, Additional Con dition no. 11(ii) of EC Amendm ent letter no. J-13011/8/200 6-IA.II(T) dated 13.08.2021, Specific Condit ion no. (xvi) of EC letter no. J- 13012/117/200 8-IA.II(T) dated 18.03.2011, Additional Con dition no. 16(ii) of EC Amendm ent letter no. J-13012/8/200 6-IA.II(I) dated 03.01.2019	As per the stipulated condition in 4 x600 MW TPP EC, Utilization of 10 0% Fly Ash generated shall be mad e from 4th year of operation and st atus of implementation shall be rep orted to the Regional Office of the Ministry from time to time. Project Authority has not achieved 100% fly ash utilization. Project Authority should have taken further follow-up action or explore d with other appropriate institutes as stipulated for alternate new tec hnology to utilize dry fly ash	2021-22 84.7 89.6 2022-23 98.9 98. 2023-24 100.3 101 2024-25 94.3 92. 2025-26* 102.9 103 *till 30 th September, 2025 · As evident from the above, the Compachieving about 100% ash utilization the TPP during last 4 years. · It is submitted that the ash utilization e TPP may be evaluated in line with atest Fly ash Utilization Notification 1 and its amendment. · Further, JPL has been regularly submit he fly ash utilization and its impler ion report to IRO, MoEF & CC as a re to the six monthly compliance in submitted. · It is submitted that the company has sing ash for road making. · JPL has also supplied ash to the Public ks Department for utilization in the truction of road/embankment as puirement received.	8 .9 .9 .0	
	Condition no. (xvi) of EC J-13 011/15/93-II(T) dated 24.09.19 97	Project Authority in their reply claims that the condition has been complied with. However, Project Authority has not made available any documents regarding the awards passed by the District Administration, total no. of Project Affected Family, total no. of Project Affected People, No. of persons paid compensation, total compensation assessed a gainst land, Amount of compensation paid, Amount of compensation yet to be paid, No. of persons yet to be provided job, No. family yet to be rehabilitated. Ministry may take appropriate view based on the compliance details available, if any, in the Ministry.	All project affected families have been pensated as per directives of State of C.G. It is submitted that 1120 families have compensated and no R&R is pender.t. the said thermal power plant ancillary facilities. Thus it is requested that the condition be considered to be complied with	e Govt. e been ling w. and its	
	Condition no. (xx) of EC J-130 11/15/93-II(T) dated 24.09.19 97 As per the condition, Monitoring Committee should be constitut ed for reviewing the complianc e to various safeguard measure s by involving recognized local NGOs, Pollution Control Board		· It is submitted that the Company req CECB for formation of Monitoring mittee was submitted to vide lett JPL/EMD/RO/OCT-2010 dated 7/1 0 as the Company was of the und ding that the CECB would suggest	g Com er No. .0/201 lerstan	

S.N o.	EC Condition	Abridged comments of Sub-Offic e, Raipur as per report dated 23.0 9.2025	Reply of JPL
		s, Institutions, Experts etc. Monitoring Committee needs to be e constituted by the Project Au thority in coordination with the authorities concerned as stipul ated. Project Authority in their reply/ATR informed that it was requested the CECB for constitution of the Committee. Monit oring Committee has not been constituted for reviewing the compliance even after the lapse of 28 years from the grant of the EC. In view of the above, the condition may be treated as not complied.	ncerned for formulation of a committee. However, now the Company vide its letter dated 13.10.2025 has requested CECB to nominate a member from the Board to constitute the committee inter alia comprising representative of IIT Kharagpur. Further, it is submitted that the company has engaged IIT, Kharagpur for monitoring of compliance to various safeguard me asures.
	Additional con dition no. 16 (ii i) of EC Amend ment letter no. J-13012/8/200 6-IA.II(I) dated 03.01.2019, Specific Condition no. (xviii) of EC letter no. J-13012/117/200 8-IA.II(T) dated 18.03.2011, Additional Con dition no. 3(vii i), (xiii)- EC Amendment letter no. J13012/11 7/2008-IA.II(T) dated 26.04.20 17, Additional Specific Condition no. 6 (A) (xxxii i)- EC Amendment Letter no. J-13012/117/2 008.IA.II(T) dated 10.01.2014	As per the condition, the approved ash pond site at village Dolesara/ R oadapalli in an area of 239 ha. vide Ministry's letter dated 26.4.2017 f or disposal of ash generated from 4X600 MW Power Plant shall be o perationalized within one year so t hat there should not be any necessi ty to further raise the existing dyke height. Reportedly the height of the existin g ash dyke has been raised 4 times and also using the existing ash dyke of 4x250 MW without constructing new ash dyke. In such circumstances, Project Authority ought to have amended the said condition before raising the height of the ash dyke. Project Authority in their reply / ATR submitted that an application has been submitted for EC amendment for continuing use of existing ash dyke for 4x600 MW and thus Ministry may take appropriate view based on the factual status.	 At the outset it is submitted that the company has raised the height of ash dyke only after obtaining prior permission from MoEF&CC vide EC amendments dated 0 3.01.2019 and 13.08.2021. It is submitted that no raising of height of the ash dyke has been undertaken without approval of MoEF&CC. Thus the condition is complied with. The instant proposal of EC amendment has been submitted for seeking permission for use of existing ash dyke of 4x250 MW as no separate ash pond will be const ructed for 4x600 MW.
	Specific Condition no. (xvii) of EC letter no. J-	· As informed by the Project Author ity during the visit, as part of re handling ash from the ash pon	· Ash was utilised for low-lying area filling in the year 2023-24 after obtaining necess ary NOC from CECB.

S.N o.	EC Condition	Abridged comments of Sub-Offic e, Raipur as per report dated 23.0 9.2025	Reply of JPL
	13012/117/200 8-IA.II(T) dated 18.03.2011	d was partly used for levelling of low-lying areas, which was a lso confirmed from the CECB. However, it appears that prese ntly re-handling of ash from the ash dyke is used for only backfilling of mine voids at Gare Palma.	 Since then no ash has been utilised for low-lying area filling. Re-handling of ash from the ash dyke is do ne by utilising the same for backfilling of mine voids at Gare Palma IV/1 and Gare Palma IV/2 & IV/3 coal mines of JPL.
	Specific Condition no. (xix) of EC letter no. J-13012/117/200 8-IA.II(T) dated 18.03.2011	In the ATR, Project Authority has not produced any document regarding NOC obtained from the State Pollution Control Board for ash disposal in the mine voids and intimation submitted by the Project Authority to the CECB before undertaking the activity rather Project Authority claims that as per the notification guidelines, separate NOC from CECB is not required for utilizing the fly ash for backfilling in the mine voids. This Office is not in agreement with the reply of the Project Authority. Even for backfilling in small voids of stone quarry, NOC is being is sued by the State PCB.	 Fly ash is being utilised in backfilling of min e voids as per the mandate under the provisions of the Fly ash Utilization Notific ation dated 31.12.2021 and amendment s thereof. As per the notification or fly ash utilisation guidelines, separate NoC from State PC B is not required for utilizing the fly ash in backfilling of the mine voids. The Consent to Operate GP IV/1 dated 21.0 2 2025 and GP IV/2 &3 21.01.2025 man dates to use fly ash from the Thermal power plant for backfilling.
	Specific Condit ion no. (xxi) of EC letter no. J-13012/117/200 8-IA.II(T) dated 18.03.2011	During the visit, Project Authority claimed that as per the survey of Govt. PHE Department, all the neighboring villages of project area are free from fluoride contaminated water, hence there is no need to supply fluoride free potable drinking water in the villages and schools and thus it was reported that if the said condition is not applicable, Project Authority ought to have a mended the said EC condition. Project Authority in their ATR reported that the Company is supplying free potable drinking water to nearby villages as part of CSR programme. But, failed to furnish the name of the villages where such water supply is made under CSR and the supporting documents from the Districe.	 As per letter received from Public Health En gineering Sub-Division, District- Raigarh, Chhattisgarh vide its letter dated 16.05. 2025 has confirmed that the neighbouring villages of project area are free from fluoride contaminated water. Copy of the letter from PHE Department has been submitted. However, JPL has been supplying free potable drinking water to nearby villages during lean season as part of its CSR programme. It is submitted that there is no fact twisting being done by the Company and the information submitted is true without any distortion.

S.N o.	EC Condition	Abridged comments of Sub-Offic e, Raipur as per report dated 23.0 9.2025	Reply of JPL
		t Administration or local author ity concerned. Project Authorit y twisting the facts for their o wn convenience. No comment s are offered in the absence of any documental proof. Ministry may take appropriate view.	
	Specific Condition no. (xxii) of EC letter no. J-13012/117/200 8-IA.II(T) dated 18.03.2011	Project Authority in their ATR subm itted an unsigned document comprising of the CSR activities undertake n and expenditure incurred from 20 11-2015. Ministry may take appropriate view.	 Details regarding the annual expenditure by the company on the CSR activities from 2011-15 were submitted as an annexure to the covering letter printed on Company's letterhead and duly signed by the signatory. Copy of the details of expenditure incurred during 2011-15 has been submitted.
	Specific Condition no. (xxiii) of EC letter no. J-13012/117/200 8-IA.II(T) dated 18.03.2011	As per the condition, while identifying CSR activities it shall be ensured that need based assessment for the nearby villages within study area shall be conducted to study economic measures with action plan which can help in upliftment of poor section of society. Income generating projects consistent with the traditional skills of the people shall be undertaken. Project Authority claims that CSR plan is prepared and implemented based upon the need-based assessment. Ministry may take appropriate view.	 The CSR plan for every year is prepared bas ed upon the need-assessment survey being carried out by our field team. The detail of the need based activities in nearby villages for the period of FY-2025-26 has been submitted.
	Specific Condition no. (xxiv) of EC letter no. J-13012/117/200 8-IA.II(T) dated 18.03.2011	In the reply /ATR, Project Authorit y reiterated that the annual social audit has been carried out through Xavi er Institute of Social Service, Ranc hi. As per the condition, annual social audit needs to be carried out thro ugh Government institute. The ab ove referred institute is not a Gov ernment Institute and it is a privat e institute. Ministry may take appr opriate view.	1. The annual social audit has been carried o ut by engaging Xavier Institute of Social Service, Ranchi (XISS-Ranchi), which is a well renowned, highly recognised and a prestigious institute in India. 2. Thus it is requested that the condition may be considered to be complied with.
	Specific Condit ion no. (xxv) of	Project Authority in their ATR subm itted an unsigned document as Ann	· The details of schemes being implemented for tribal families was annexed as an atta

S.N o.	EC Condition	Abridged comments of Sub-Offic e, Raipur as per report dated 23.0 9.2025	Reply of JPL
	EC letter no. J- 13012/117/200 8-IA.II(T) dated 18.03.2011 exure-10 in support of the comp nce of the condition. Ministry manake appropriate view.		chment to the covering letter duly signe d by the signatory and printed on the Company's Letterhead. Thus it is requested that the condition may be considered to be complied with.
	Additional Spe cific Condition no. 6 (A) (xxx)- EC Amendment Letter no. J-13 012/117/2008.I A.II(T) dated 1 0.01.2014	As per the condition, a long term st udy of radio activity and heavy met als 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. Project Authority in their reply/ATR, not made available compliance status regarding in-built continuous monitoring mechanism in place for radio activity and heavy metals in coal and fly ash (including bottom ash). If the condition is not implementable, which needs to be amended from the MoEF&CC.	Development of in-built continuous monito ring mechanism is not available. The radioactivity in coal was analysed by N ABL accredited laboratory for determina tion of Radioactivity in Coal and fly ash. Study of heavy metals contents in coal and fly ash from a reputed institute/organization is carried out regularly. The radioactivity report for coal, fly ash & b ottom ash have been submitted.
	Additional Spe cific Condition no. (xxxvi) - EC Amendment let ter no. J13012/ 117/2008-IA.II(T) dated 27.03. 2015	Reply furnished by the Project Auth ority does not reveal the consultati on held with Government Authoriti es regarding compliance of the condition and details of the periodic maintenance of the coal transportati on road undertaken by the project proponent on their own expenses.	 Periodic maintenance of the road for coal tr ansportation is being done of JPL on reg ular basis. Presently JPL is installing road light from th e plant gate to mine end. Latest photographs of the road have been s ubmitted.
	Additional Condition no. 3(v)-EC Amendment letter no. J130 12/117/2008-IA.II(T) dated 2 6.04.2017	Details of coal characteristics, sour ce & location of coal mine, traffic s tudy, submitted to the Ministry aft er the allocation of coal has not be en made available in their reply/AT R.	 Majority of coal for the TPP is sourced from Gare Palma IV/1 and Gare Palma IV/2 & I V/3 coal mines of Jindal Power Limited. Remaining coal is being sourced from MCL mine under long-term Fuel Supply Agree ment (FSA), details of which have been s ubmitted to the MoEF&CC. Apart from the above, no coal is being sour ced under any other scheme notified by M/s Coal India Limited.

32.2.7: 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

Details of NGT court case

S. N o.	Case n o.	Name of the Court	Brief Sum mary of th e Case	Last dat e of Hea ring	Next da te of H earing	Direction / Action tak en by the PP
1.	Original Applicat ion No. 70/202 3	NGT, C entral Z one	News report published in the Newspaper named Indian Express, Daily News Paper dated 4th February, 2022, Kolkata, Late City Edition titled "Noncompliance of EC conditions by different units interalia Tamnar Thermal Plant of M/s. Jindal Power Limited, Chhattisgarh.	08.11.20 24	Dispose	As per NGT order date d 08.11.2024 Original Application No. 70/202 3 stands disposed of w ith following directions: MoEF&CC is directed t o periodically monitor t he compliances of the environmental conditions and after scrutiny of the environmental conditions to take necessary / proper action in case of violation. The state is directed to strictly comply Rule 22 of the Chhattisgarh District Mineral Foundation Trust Rule, 2015 and Rule 10(1)(b)(1) Odish a District Mineral Foundation Trust Rule, 2015 which provides the expenditure from the trust fund of the District Mineral Foundation Trust for the overall development of the area affect ed by the Mining or mining is related operations in accordance with the annual action plan prepared by the Managing Committee and approved by the Governing Council of the Trust. The DMF fund must be utilised in accordance with rules and for proper maintenance of the road and welfare for the public. The railway route must be completed by 01.0

S. N o.	Case n o.	Name of the Court	Brief Sum mary of th e Case	Last dat e of Hea ring	Next da te of H earing	Direction / Action tak en by the PP
			R. I		CAF	4.2025 and MoEF&CC with the Railway Board will regularly monitor the progress of the completion of the railway route. The South East Central Railway (SECR) Bilaspur is directed to periodically monitor the progress of the railway construction and to ensure its completion before 01.04.2025.

B. Summary of Show Cause Notices: NIL

C. Summary of violation: NIL

32.2.8: Proposed use of land in place of Ash dyke- It is submitted that Government of Chhattisgarh has issued an Invitation to Invest vide letter dated 30.06.2025 to JPL to develop a Thermal Power Plant. Thus the Company intends to utilize the land for the developing the thermal power plant.

3.2.3. Deliberations by the committee in previous meetings

Date of EAC 1:27/06/2024
Deliberations of EAC 1:

Date of EAC 2:01/10/2024

Deliberations of EAC 2:

Observations and deliberations of the Committee:

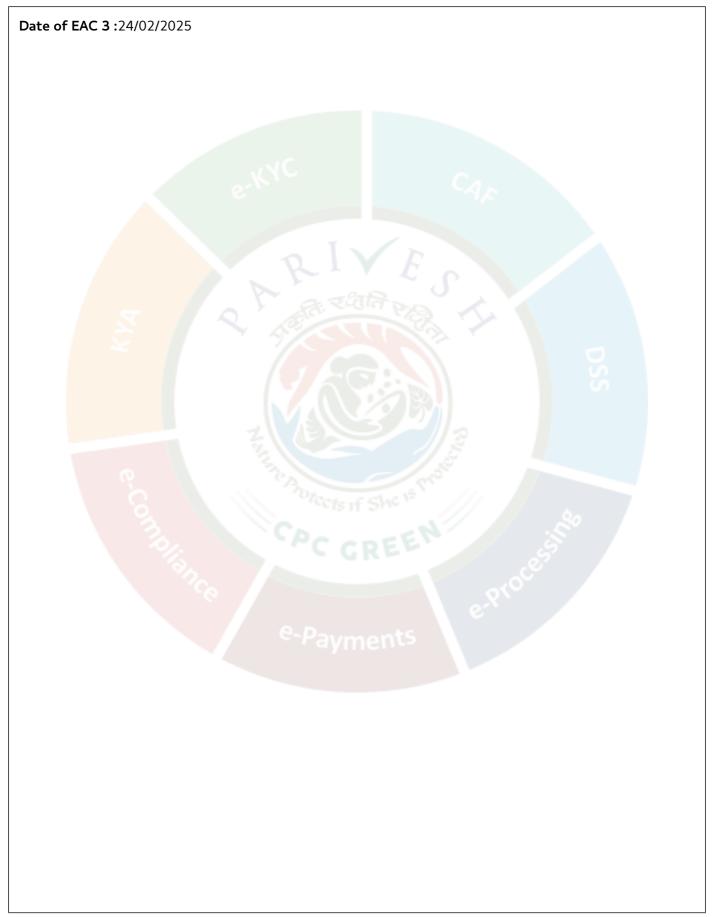
13.3.5: The EAC noted the following:

- i. As per EC dated 18.03.2011, a separate ash dyke near Rodapali village was to be constructed for 4x 600 MW. However, the Ash dyke could not be constructed as the land for the proposed ash dyke area became part of a coal block. Based upon the request of JPL, MoEF&CC vide letter dated 26.04.2017 granted permission to construct the ash dyke on 236 ha land at an alternate location near village Dolesera. Consent to Establish (CTE) for the same was granted by Chhattisgarh Environment Conservation Board (CECB) vide letter dated 27.04.2022. The present proposal of project proponent is not to construct the ash dyke in the 236 Ha and use the existing ash dyke developed for 4 x250 MW.
- ii. The Committee noted that proponent has obtained amendment in the existing EC with respect to use of existing ash dyke of 4x250 MW for unutilized ash of 4x600 MW on 10/01/2014, 26/04/2017, 28/08/2020, 28/10/2021 and 24/02/2023.
- iii. With respect to ash utilization for the existing 3400 MW TPP, the Committee noted that the ash is being utilized for filling of low lying areas reportedly with prior permission from CECB. However, the quantity of ash disposal in low lying areas and compliance to the stipulated conditions have not made available by the project proponent.
- iv. The committee opined that in order to take considered view in the matter, it is necessary ascertain the compliance status to the prescribed EC conditions inter-alia present generation, utilization and disposal of ash in accordance with the ash utilization notification dated 31/12/2021 and its subsequent amendments.
- v. A court case is pending before the NGT, CZ Bhopal [No. Original Application No.70/2023(CZ)] arising out of News report published in the Newspaper named Indian Express, Daily News Paper dated 4th February, 2022, Kolkata, Late City Edition titled "Noncompliance of EC conditions by different units inter-alia Tamnar Thermal Plant of M/s. Jindal Power Limited, Chhattisgarh.

Recommendations of the Committee:

- **13.3.6:** In view of the foregoing and after detailed deliberations, the Committee **deferred** the proposal for amendment in EC and sought for following additional information for further consideration:
 - i. Present status of 236 Ha land along with photographs and intended purpose of the said land in place of new ash dyke.
 - ii. Quantum of ash generation, disposal and utilization as per the ash utilization notification dated 31/12/2021 and its subsequent amendments shall be submitted. Further, the quantum of legacy ash utilization shall also be furnished.
 - iii. Action plan for reduction in existing ash pond area shall be submitted.
 - iv. Project proponent shall submit a certified compliance report from the concerned Regional Office of the Ministry regarding the compliance of all the stipulated conditions in the existing ECs and its subsequent amendments.
 - v. Compliance report from CECB regarding adherence to the terms and conditions by the proponent for disposal of ash in low lying area shall be submitted.
 - vi. Action plan for adopting dry bottom ash collection system shall be submitted.

vii. Detailed status of court case i.e., Original Application No.70/2023 pending before the NGT, CZ Bhopal regarding "Noncompliance of EC conditions by different units inter-alia Tamnar Thermal Plant of M/s. Jindal Power Limited, Chhattisgarh shall be submitted.



Deliberations of EAC 3:

Observations and deliberations of the Committee:

20.5.8: The EAC noted the following:

- i. As per EC dated 18.03.2011, a separate ash dyke near Rodapali village was to be constructed for 4x 600 MW. However, the Ash dyke could not be constructed as the land for the proposed ash dyke area became part of a coal block. Based upon the request of JPL, MoEF&CC vide letter dated 26.04.2017 granted permission to construct the ash dyke on 236 ha land at an alternate location near village Dolesera. Consent to Establish (CTE) for the same was granted by Chhattisgarh Environment Conservation Board (CECB) vide letter dated 27.04.2022. The present proposal of project proponent is not to construct the ash dyke in the 236 Ha and use the existing ash dyke developed for 4 x250 MW.
- iii. The Committee noted that proponent has obtained amendment in the existing EC with respect to use of existing ash dyke of 4x250 MW for unutilized ash of 4x600 MW on 10/01/2014, 26/04/2017, 28/08/2020, 28/10/2021 and 24/02/2023.
- iv. With respect to ash utilization for the existing 3400 MW TPP, the Committee gone through the ash generation and utilization details.
- v. The EAC also deliberated on the written submissions of the project proponent and found it satisfactory.

Recommendations of the Committee:

20.5.9: In view of the foregoing and after the detailed deliberations, the Committee *partially recommended* the instant proposal for grant of amendment in the ECs dated 18/03/2011 & 04/11/2011 and its subsequent amendment dated 24/02/2023 as detailed below **subject to stipulation of following additional specific conditions and uploading of written submissions on PARIVESH portal.** Other terms and conditions prescribed in EC dated 18/03/2011 & 04/11/2011 and its subsequent amendments shall remain unchanged:

Paragraph s of EC a mendmen t letter da ted 24/0 2/2023	Details as pe r EC amend ment dated 24/02/2023	Amendme nt sought by the proj ect propon ent	Recommendations of EAC as per MoM
Para no 3, 4 & 5 of E C amendm ent dated 24.02.202 3	Permission to use existing a sh dyke of 4x 250 MW for unutilized as h/ bottom as h of 4x600 M W has been g ranted till Jun e 2024.	Permission to continue use existing ash dyke of 4x250 MW for unutiliz ed ash of 4 x600 MW p ermanently	Permission to use existing ash dyke of 4x250 M W for 4x600 MW TPP for 2 year i.e. till 30.06.2 026 subject to stipulation of following additional specific conditions:

Date of EAC 4:20/06/2025

Deliberations of EAC 4:

Observations and deliberations of the Committee (during 26th EAC meeting):

26.5.10: The EAC noted the following:

- i. As per EC dated 18.03.2011, a separate ash dyke near Rodapali village was to be constructed for 4x 600 MW. However, the Ash dyke could not be constructed as the land for the proposed ash dyke area became part of a coal block. Based upon the request of JPL, MoEF&CC vide letter dated 26.04.2017 granted permission to construct the ash dyke on 236 ha land at an alternate location near village Dolesera. Consent to Establish (CTE) for the same was granted by Chhattisgarh Environment Conservation Board (CECB) vide letter dated 27.04.2022. The present proposal of project proponent is not to construct the ash dyke in the 236 Ha and use the existing ash dyke developed for 4 x250 MW.
- iii. The Committee noted that proponent has obtained amendment in the existing EC with respect to use of existing ash dyke of 4x250 MW for unutilized ash of 4x600 MW on 10/01/2014, 26/04/2017, 28/08/2020, 28/10/2021 and 24/02/2023.
- iv. The adequacy of the ash dyke for 4x250 MW have been examined by EAC in detail and noted that factor of safety is 1.0, which is pretty low. In view of this, PP was advised to take adequate measures to ensure that ash dyke is more stable. It was also advised that proponent shall go for circular slip analysis for the ash dyke.
- v. EAC opined that height of the ash dyke shall not be increased beyond 18 meter and preferably fly ash shall not be utilized for filling up of low lying areas.
- vi. EAC deliberated upon the certified compliance report dated 25/04/2025 and observed that 31 non-compliances have been reported by the Regional Office including the non-compliance to the provisions contained under the ash utilization notification 2021 for the existing ash dyke of 4x250 MW which is presently under consideration before the EAC for amendment purpose. The committee felt that proponent should take immediate action to the comply with non-compliances reported by the RO and obtain closure report.

Recommendations of the Committee:

26.5.11: In view of the foregoing and after the detailed deliberations, the Committee *deferred* the instant proposal and sought for a closure report against the 31 non-compliances as reported in the certified compliance report dated 25/04/2025 including the non-compliance to the provisions contained under the ash utilization notification 2021 for the existing ash dyke of 4x250 MW. Further, proponent shall also submit the circular slip analysis of the existing ash dyke to ensure the stability of the same as it has been proposed to be used for disposal of ash from 4x600 MW forever. Thereafter, the proposal shall be placed before the EAC for consideration for taking considered view on the amendment request of the project proponent.

3.2.4. Deliberations by the EAC in current meetings

Observations and deliberations of the Committee:

32.2.9: The EAC noted the following:

i. As per EC dated 18.03.2011, a separate ash dyke near Rodapali village was to be constructed for 4x 600 MW. However, the Ash dyke could not be constructed as the land for the proposed ash dyke area became part of a coal block. Based upon the request of JPL, MoEF&CC vide letter dated 26.04.2017 granted permission to construct the ash dyke on 236 ha land at an alternate location near village Dolesera located at a distance of 4.6 km from the plant site. Consent to Establish (CTE) for the same was granted by Chhattisgarh Environment

Conservation Board (CECB) vide letter dated 27.04.2022. The present proposal of project proponent is not to construct the ash dyke in the 236 Ha and use the existing ash dyke developed for 4 x250 MW permanently.

- ii. The Company's management intends to use the 236 Ha of land acquired for ash dyke for setting up of the new power plant as per the Invitation to Invest of Government of Chhattisgarh dated 30.06.2025.
- iii. The Committee noted that proponent has obtained amendment in the existing EC with respect to use of existing ash dyke of 4x250 MW for unutilized ash of 4x600 MW on 10/01/2014, 26/04/2017, 28/08/2020, 28/10/2021 and 24/02/2023.
- iv. Adequacy of the existing ash dyke of 4x250 MW for disposal of ash from 4x600 MW on permanent basis was deliberated upon by the EAC in detail. The committee deliberated on the existing ash dyke volume availability, Action plan for excavation and use of already stored ash in the ash dyke, Slope Stability study of Ash dyke by NIT Raipur. After deliberations, the Committee opined that recommendations of NIT Raipur shall be complied with.
- v. The expected life of existing ash dyke will increase from 1.6 years till the life of the 4x250 MW & 4x600 MW TPP due to the concurrent excavation and utilization plan.
- vi. Committee deliberated on the sub-committee site inspection report and reply submitted by the proponent. vii. Committee deliberated on the report of Regional Office dated 23/09/2025 and observed the following:
- Project proponent needs to comply with the recommendations covered in the Order dated 15/02/2022 of
- Hon'ble NGT in the Original Application No.104 of 2018.

 Project proponent shall submit the relevant supporting documents regarding implementation of Compensatory Afforestation and catchment area treatment plan, Third-party report on monitoring & evaluation of Green Belt / plantation, documents regarding 100 percent fly ash utilization, R&R plan & its implementation status, formation of monitoring committee, CSR activities undertaken, details of schemes being implemented for tribal families, periodic maintenance of the coal transportation road undertaken and
- Project Authority needs to apply for amendment in the existing ECs for the conditions related to in-built continuous monitoring for radio activity and heavy metals in coal, annual social audit by govt institute.

 After deliberations, the Committee opined project proponent to take corrective action on the above and compliance status to be submitted to the Ministry and Regional Office within 30 days from the date of grant of EC amendment.
- viii. The EAC also deliberated on the additional information submitted by the project proponent and found it satisfactory.

Recommendations of the Committee:

details of coal characteristics to the Regional Office of MoEF&CC.

32.2.10: In view of the foregoing and after the detailed deliberations, the Committee *partially recommended* the instant proposal for grant of amendment in the ECs dated 18/03/2011 & 04/11/2011 and its subsequent amendment dated 24/02/2023 as detailed below **subject to stipulation of following additional specific conditions.** Other terms and conditions prescribed in EC dated 18/03/2011 & 04/11/2011 and its subsequent amendments shall remain unchanged:

Paragraph s of EC a mendmen t letter da ted 24/0 2/2023	Details as pe r EC amend ment dated 24/02/2023	Amendme nt sought by the proj ect propon ent	Recommendations of EAC as per MoM
Para no 3, 4 & 5 of E C amendm ent dated 24.02.202 3	Permission to use existing a sh dyke of 4x 250 MW for unutilized as h/ bottom as h of 4x600 M W has been g ranted till Jun	Permission to continue use existing ash dyke of 4x250 MW for unutiliz ed ash of 4 x600 MW p ermanently	Permission to use existing ash dyke of 4x250 M W for 4x600 MW TPP permanently subject to st ipulation of following additional specific conditions:

Paragraph s of EC a mendmen t letter da ted 24/0 2/2023	Details as pe r EC amend ment dated 24/02/2023	Amendme nt sought by the proj ect propon ent	Recommendations of EAC as per MoM
	e 2024.		

3.2.5. Recommendation of EAC

Recommended

3.2.6. Details of Environment Conditions

3.2.6.1. Specific

Additional specific conditions:

- 1. 236 Ha of additional land acquired for ash dyke for 4x600 MW shall be utilized only for developing the thermal power plant as per Government of Chhattisgarh Invitation to Invest letter dated 30.06.2025. No other activity is permitted in the said land. Compliance status in this regard shall be submitted to the Regional Office in this regard along with the six monthly compliance report
- Ash dyke stability study for the 4x250 MW situated in an area of 198 Ha. shall be conducted through reputed government organisation once in six months and the recommendations of the study report shall be duly complied with
- 3. All the recommendations of the stability analysis report of NIT Raipur shall be complied with

PP shall expedite the planation activities and plantation shall be done in this financial year (2025-26) as per the action plan given below:

Sl. No	Location	Area	No of Saplings	Remark
1	From Plant Gate to Gare Mines	Approx. 09 KM length	10,000	On completion of road construction being done by PWD and as per availability of road side land
2	Near Ash dyke	Approx. 4 Acres	5000	Gap plantation. Replacement and strengthening of existing plantation
3	Miyawaki Planation	1.5 Acres	10,000	-
4	Plantation in nearby Villages	-	30,000	Through CSR
5	Distribution of fruit tree saplings	-	25,000	Through CSR
6	In and around the Plant	-	20,000	Replacement and strengthening of existing plantation
Tota	al		1,00,000	

- 5. PP shall expedite to start construction of nearby roads, geotagged pictures of before and after construction of the road shall be submitted
- PP shall deploy vacuum based vehicle for everyday cleaning of the road in and around plant site at least for 5 KM. Sprinkling on the road side shall be carried out regularly (twice in a day) and data shall be maintained mentioning about its functionality
- PP is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development. An action plan in this regard shall be submitted to concern RO

Project proponent shall comply with the following non-conformities as reported in the report of the Regional Office dated 23/09/2025 within 30 days from the date of issue of EC amendment letter:

- Project proponent needs to comply with the recommendations covered in the Order dated 15/02/2022 of Hon'ble NGT in the Original Application No.104 of 2018.
- Project proponent shall submit the relevant supporting documents regarding implementation of Compensatory Afforestation and catchment area treatment plan, Third-party report on monitoring & evaluation of Green Belt / plantation, documents regarding 100 percent fly ash utilization, R&R plan & its implementation status, formation of monitoring committee, CSR activities undertaken, details of schemes being implemented for tribal families, periodic maintenance of the coal transportation road undertaken and details of coal characteristics to the Regional Office of MoEF&CC.
 - Project Authority shall apply for amendment in the existing ECs for the conditions related to in-built continuous monitoring for radio activity and heavy metals in coal, annual social audit by govt institute.

3.3. Agenda Item No 3:

8.

3.3.1. Details of the proposal

Proposed 3x800 MW Coal Based Ultra Super Critical Nilanchal Thermal Power Plant at Village Rahangol, Kandarei, Tehsil Athagarh, District Cuttack, Odisha by Orissa Thermal Energy Private Limited by Adani P ower Limited located at CUTTACK, ODISHA

Proposal For	PCG	Application for amendment in ToR (for categories A & B1)/Amendment in EC (for category B2)- Form-3		
Proposal No	File No	Submission Date	Activity Sub-Activity (Schedule Item)	
IA/OR/THE/553944/202 5	J-13012/02/2025-IA.I(T)	13/10/2025	Thermal Power Plants Coal/Lignite based plants (1(d))	

3.3.2. Project Salient Features

Agenda No. 32.3

32.3. Proposed 3x800 MW Coal Based Ultra Super Critical Nilanchal Thermal Power Plant by M/s. Orissa Thermal Energy Private Limited **at Village Rahangol, Kandarei, Tehsil Athagarh, District Cuttack, Odisha - Amendment in Terms of Reference (ToR) - regarding.**

[Proposal No: IA/OR/THE/553944/2025; F.No. J-13012/02/2025-IA.I(T)] Details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meeting, are given as under:

S. N o.		Terms of Reference (TO R)	Capacity (MW)	Date of
1.	J-13012/02/2025-IA.I(T)	Terms of Reference (To R)	3x800 MW (2400 M W)	21.02.202 5

32.3.4: In pursuance to the ToR dated 21/2/025, PP has already completed the baseline data during October'2024 to December'2024 and public hearing is proposed in the Month of December'2025.

Poin ts/ S.N o. of ToR	Details of Con To	ditions as per	Amendment Sought R Condition	in the To	Justification
Poi nt n o. 1 O (S l. N o i)	Environmental site setting s: Land requirement for the pr oposed power project of 24 00 MW capacity is about 33 1.49 Ha. Forest Land (inside the plant boundary): 9.235 Ha (barest minimum, scatter ed unavoidable forest patch es). Proposal no. FP/OR/THE/513328/2024. Non-Forest Land is 322.26 Ha.		Land requirement for the pro posed power project of 2400 MW capacity is about 331.49 Ha. Forest Land (inside the pl ant boundary): Forest diversi on for 15.984 Ha. (barest mi nimum, scattered unavoidable forest patches). Proposal no FP/OR/THE/554363 /2025. Non-Forest Land is 315.506 Ha.		After detailed survey by Odisha Forest Departmen t the forest land has been increased (from 9.235 Ha to 15.984 Ha) which are unavoidable forest patch es identified within the Pl ant boundary.
Poi nt n o. 1 O (S l. N o ii)	Facilities Main Plant (Plant Area including BTG, FDG, Water Facility, AHP Facility, Switchy ard & Misc Facility) Coal Handling System (Coal Stock Yard including Rail Yard) Water System (Reservoir) Green belt Township	² C ₀	TRANSPORT LANGE AND LAND. TO	94.70 57.87	The Ash Dyke area has be en revisited to accommo date Cement Grinding Un it (CGU) to achieve 100% ash utilization.
	Ash pond Total	30.35 331.49 Ha			

Poin ts/ S.N o. of ToR	Details of Conditions as per ToR	Amendment Sought in the To R Conditions	Justification
Poi nt n o. 1 O (S l. N o iii)	Non- Forest Land- 322.26 Ha Forest land- 9.235 Ha Total land- 331.49 Ha Land is already under posse ssion of the project except t he following: Forest Land (i nside the plant boundary): 9.235 Ha are forest Land (b arest minimum, scattered un avoidable forest patches). P roposal no. FP/OR/THE/513328/2024.	Non- Forest Land- 315.51 Ha Forest land- 15.984 Ha Total land- 331.49 Ha. Land is already under posses sion with the company excep t Forest Land (unavoidable fo rest patches inside the plant boundary): 15.984 Ha. Proposal no. FP/OR/THE/55 4363/2025	After detailed survey by Odisha Forest Departmen t the forest land has been increased (from 9.235 Ha to 15.984 Ha) which are unavoidable forest patch es identified within the Pl ant boundary.
Poi nt n o. 1 O (S l. N o vi i)	Area of the forest land involved: 9.235 Ha. Application for Stage I FC has been submitted vide proposal no. FP/OR/THE/51332 8/2024	Area of the forest land involved: 15.984 Ha . Application for Stage I FC has been submitted vide proposal no FP/OR/THE/554363/2025	After detailed survey by O disha Forest Department the forest land has been in creased (from 9.235 Hat o 15.984 Ha) which are unavoidable forest patches identified within the Plant boundary.
Poi nt n o. 1 O (S l. N o x)	Name of the ESZ: Kapilash Wildlife Sanctuaries Status of Notification: Kapil ash Wildlife Sanctuary was notified by MoEF&CC vide notification S.O. 1659 (E) dat ed 17/06/2015. Distance of project from ES Z: 3.2 km Status of NBWL approval: Not required	Name of the ESZ: Kapilash W ildlife Sanctuaries Status of Notification: Kapilas h Wildlife Sanctuary was noti fied by MoEF&CC vide notific ation S.O. 1659 (E) dated 17/06/2015. Distance of project from ES Z: 0.776 km Status of NBWL approval: No t required	Distance certificate issu ed by DFO, Athgarh For est Office vide letter n o. 4070 dated 04.08.20 25 and is enclosed. The Project site is at an aerial distance of 0.776 K m from Eco-Sensitive Zo ne (ESZ) of Kapilash Wildlife Sanctuary and 2.76 Km from the boundary of Kapilash Wildlife Sanctuary.
Poi nt n o. 2 2 (S l. N o v)	Total area requirement of the project is 331.49 Ha [Private: 117.18 Ha; Govt.: 214.3 15 Ha]. The proposed project involves 9.235 Ha of Forest Land. Forest application for diversion of Forest land/patches has been submitted on 05/12/2024, proposal no. FP/OR/THE/513328 /2024.	Total area requirement of the project is 331.49 Ha [Private: 184.914 Ha; Govt.: 130.596 Ha; and Forest: 15.984 Ha]. 15.984 Ha Forest land is involved and application for diversion of Forest land/patches has been submitted on 08.10. 2025 proposal no. FP/OR/TH E/554363/2025.	After detailed survey by O disha Forest Department t he forest land has been in creased (from 9.235 Ha t o 15.984 Ha) which are u navoidable forest patches identified within the Plant boundary.

Poin ts/ S.N o. of ToR	Details of Conditions as per ToR	Amendment Sought in the To R Conditions	Justification
Poi nt n o. 2 2 (S l. N o vi i)	The Kapilash Wildlife Sanctu ary was notified by MoEF&C C vide notification S.O. 165 9 (E) dated 17/06/2015. PP informed that the project sit e is located at a distance of 3.2 km from the ESZ bound ary of Kapilash Wildlife Sanc tuary.	The Kapilash Wildlife Sanctua ry was notified by MoEF&CC vide notification S.O. 1659 (E) dated 17/06/2015. PP informed that the project site is located at a distance of 0.776 km from the ESZ boundary of Kapilash Wildlife Sanctuary.	Distance certificate issu ed by DFO, Athgarh For est Office vide letter n o. 4070 dated 04.08.20 25.
Spe cifi c T oR 1[A], (Sl No. 1.3)	Project proponent shall sub mit the stage I Forest Cleara nce for the diversion of 9.2 35 Ha of forest land envisag ed under the project. Project proponent shall also obtain recommendations from the State Forest department regarding the impact of project on the nearby Reserved Forests along with the mitigation measures if any to be followed.	Project proponent shall submit the stage I Forest Clearance fo r the diversion of 15.984 Ha of forest land envisaged under the project. Project proponent shall also obtain recommendations from the State Forest department regarding the impact of project on the nearby Reserved Forests along with the mitigation measures if any to be followed.	After detailed survey by O disha Forest Department the forest land has been in creased (from 9.235 Hat o 15.984 Ha) which are unavoidable forest patches identified within the Plant boundary.

32.3.6: 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 (Last Two Years): Nil

Any violation case pertaining to the project on fo llowing:	GREE
i. The Environment Protection Act, 1986	0100
ii. Van (Sanrakshan Evam Samvardhan) Adhiniya	0.4
m, 1980.	
iii. The Wildlife (Protection) Act, 1972	ment ⁵

Written submission

32.3.7: PP vide letter dated 31.10.2025 has submitted the following/ Clarification as suggested

Additional Information	Information/ Clarification
PP shall submit mitigation measures con ESZ boundary and Kapilash WLS.	The Project site is at an aerial distance of 0.776 Km from Eco-Sensitive Zone (ESZ) and at 2.76 Km from Kapil ash Wildlife Sanctuary. The mitigation measures considering Kapilash WLS as below:
PP shall submit the details regarding the forest patches with coordinates.	usage o The 15.984 Ha Forest patches within the Plant bounda ry are scattered and unavoidable. The land use of the f

Additional Information	Information/ Clarification	
	orest patches as far as possible will be for Greenbelt, Rainwater Harvesting, Water Reservoir & Cooling tow er system, Railway facility and administrative purpose. The Authenticated DGPS Map from ORSAC is submitte d.	

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

32.3.8: The Committee noted the following:

Recommendation of EAC

32.3.9: In view of the foregoing and after detailed deliberations, the committee *recommended* the instant proposal for grant of following amendment in ToR dated 21.02.2025 **subject to uploading of written submissions**, as detailed below and stipulation of following additional specific ToRs. All Other terms and conditions prescribed in ToR dated 21.02.2025 shall remain unchanged:

Point s/ S.N o. of ToR	Details of Cond Tof		Amendment Sought in the ToR Conditions Recommen -dations of he EAC
Poin t no. 10 (S l. No i)	Environmental site settings: Land requirement for the proposed po wer project of 2400 MW capacity is a bout 331.49 Ha. Forest Land (inside th e plant boundary): 9.235 Ha (barest m inimum, scattered unavoidable forest patches). Proposal no. FP/OR/THE/513328/2024. Non-Forest Land is 322.26 Ha.		Land requirement for the proposed power project of 2400 MW capacity is about 331.49 Ha. Fo rest Land (inside the plant boun dary): Forest diversion for 15.9 84 Ha. (barest minimum, scatte red unavoidable forest patches). Proposal no FP/OR/THE/554 363 /2025. Non-Forest Land is 315.506 Ha.
Poin t no. 10 (S l. No ii)	Facilities Main Plant (Plant Area including BTG, FDG, Water Facility, AHP Facility, Switchyard & Misc Facility) Coal Handling Sys	Proposed Area (In Ha) 94.70	Facilities Land Area (In Ha) Main Plant (Including B) TG, Water Facility, AHP Facility, Switchyard & Misc. Facility) Coal Handling System (Coal Stock Yard includi 57.87 ng Rail Yard)
	tem (Coal Stock Y ard including Rail	57.87	Water System (Reserv oir)

Point s/ S.N o. of ToR	Details of Cond Tof	•	Amendment Sought i Conditions		Recommen -dations of t he EAC
	Yard) Water System (Reser voir) Green belt Township Ash pond Total	22.26 116.60 9.71 30.35 331.49 Ha	Green belt Township Ash pond Cement Grinding Unit (CGU) Total	9.71 21.85 8.50 331.49	
Poin t no. 10 (S l. No iii)	Non- Forest Land- 32 Forest land- 9.235 H Total land- 331.49 H Land is already under e project except the Land (inside the plan 5 Ha are forest Land scattered unavoidable Proposal no. FP/OR/THE/513328/2	a possession of the following: Forest toundary): 9.23 (barest minimum, e forest patches).	Non- Forest Land- 32 Forest land- 15.984 Total land- 331.49 H Land is already under n with the company est Land (unavoidabl tches inside the plany): 15.984 Ha. Proposal no. FP/OR, 63/2025	Ha a. r possessio except For e forest pa nt boundar	Agreed
Poin t no. 10 (S l. No vii)	Area of the forest lan 9.235 Ha. Application for Stage bmitted vide proposa 513328/2024	I FC has <mark>be</mark> en su	Area of the forest lad: 15.984 Ha. Application for Stage een submitted vide pFP/OR/THE/554363/	e I FC has b proposal no	Agreed
Poin t no. 10 (S l. No x)	Name of the ESZ: Kanctuaries Status of Notification e Sanctuary was notivide notification S.O. 7/06/2015. Distance of project frestatus of NBWL apped	n: Kapilash Wildlif fied by MoEF&CC 1659 (E) dated 1 from ESZ: 3.2 km	Name of the ESZ: Ka life Sanctuaries Status of Notificatio Wildlife Sanctuary w by MoEF&CC vide S.O. 1659 (E) dated 5. Distance of project 0.776 km Status of NBWL apple equired	n: Kapilash vas notified notification 17/06/201 from ESZ:	Agreed
Poin t no. 22 (S l. No v)	Total area requireme s 331.49 Ha [Private t.: 214.315 Ha]. The involves 9.235 Ha of est application for divand/patches has bee 5/12/2024, proposal 13328 /2024.	: 117.18 Ha; Gov proposed project Forest Land. For version of Forest l n submitted on 0	Total area requireme roject is 331.49 Ha [4.914 Ha; Govt.: 130 nd Forest: 15.984 Ha 15.984 Ha Forest lared and application for forest land/patch n submitted on 08.14 posal no. FP/OR/THE 025.	[Private: 18 0.596 Ha; a a]. nd is involv or diversion es has bee 0.2025 pro	Agreed
Poin	The Kapilash Wildlife	Sanctuary was n	The Kapilash Wildlife	e Sanctuary	Agreed , si

Point s/ S.N o. of ToR	Details of Conditions as per ToR	Amendment Sought in the ToR Conditions	Recommen -dations of t he EAC
t no. 22 (S l. No vii)	otified by MoEF&CC vide notification S.O. 1659 (E) dated 17/06/2015. PP i nformed that the project site is locate d at a distance of 3.2 km from the ES Z boundary of Kapilash Wildlife Sanctu ary.	was notified by MoEF&CC vide notification S.O. 1659 (E) dated 17/06/2015. PP informed that t he project site is located at a di stance of 0.776 km from the E SZ boundary of Kapilash Wildlif e Sanctuary.	nce the Di stance cer tificate ha s been iss ued by DF O, vide let ter no. 40 70 dated 04.08.202 5.
Spec ific T oR 1[A], (Sl N o. 1. 3)	Project proponent shall submit the sta ge I Forest Clearance for the diversion of 9.235 Ha of forest land envisaged u nder the project. Project proponent shall also obtain recommendations from the State Forest department regarding the impact of project on the nearby Reserved Forests along with the mitigati on measures if any to be followed.	Project proponent shall submit the stage I Forest Clearance for the diversion of 15.984 Ha of for est land envisaged under the project. Project proponent shall also obtain recommendations from the State Forest department regarding the impact of project on the nearby Reserved Forests along with the mitigation measures if any to be followed.	Agreed

3.3.5. Recommendation of EAC

Recommended (Subject to submission of requisite information/ documents)

3.3.6. Details of Terms of Reference

3.3.6.1. Specific

	ditional Specific ToRs
1.	iv. Project proponent shall carry out the cumulative EIA/EMP study including the proposed cement grinding unit. Further, requisite statutory clearances including the prior environment clearance for the proposed cement grinding unit shall be obtained from the concerned competent authority.
2.	i. Proponent shall submit the revised plant layout by excluding the pollution generation sources and increased the width of the green belt towards the ESZ boundary side.
3.	ii. Presence of flora/fauna shall be duly authenticated by the concerned DFO along with the recommendations of State Forest Department regarding mitigation measures to be adopted shall also be submitted as the proposed thermal power plant site is about 78 meters distance from the ESZ boundary.

iii. Stage I FC (or) status of stage I FC for enhanced forestland of 15.984 ha shall be submitted as per the MoEF&CC O.M. dated 09/09/2011 & its amendment.

4. Any Other Item(s)

N/A

4.

5. List of Attendees

Sr. No.	Name	Designation	Email ID	Remarks
1	Dr Santoshkumar Hampannavar	Member (EAC)	san********@yahoo.com	Present
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 <mark>Inder Pal Singh Ma</mark> tharu IFS	Chairman, EAC	mat*******@gmail.com	Present
6	S <mark>h Lalit Kapur</mark>	Member (EAC)	lka******@yahoo.com	Present
7	Dr Umesh Jagannathrao Kahalekar	Member (EAC)	uka******@gmail.com	Present
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	Prof R M Bhattacharjee	Member (EAC)	rmb**********@iitism.ac.in	Present
12	Shri Prasoon Gargava, Scientist - F	EAC Member	pra********@nic.in	Present
13	Shri Harmeet Sahaney	EAC Member	har*********@gmail.com	Absent

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

Date of zero draft MoM sent to Chairman: 04/11/2025 Approval by Chairman: 06/11/2025 Uploading on PARIVESH: 06/11/2025

SUMMARY RECORD OF THE THIRTY SECOND (32nd) MEETING OF EXPERT APPRAISAL COMMITTEE (EAC) HELD ON 30TH OCTOBER, 2025 FOR ENVIRONMENT APPRAISAL OF THERMAL SECTOR PROJECTS THROUGH VIRTUAL MODE.

30th October, 2025 [Thursday]

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 $\underbrace{Annexure-I}$.

Confirmation of the Minutes of the 31st Meeting of the EAC (Thermal): The minutes of the 31st Meeting of the EAC (Thermal) held during 16th October, 2025 has been confirmed by the EAC as uploaded on Parivesh.

Agenda no. 32.1

32.1: Expansion of existing 1740 MW [Unit 1 & 2: 2x210 MW and Unit 3&4: 2x660 MW] Coal Based Thermal Power Plant by addition of 2x660 MW (Unit 5 & 6) as Stage-III by M/s. Odisha Power Generation Corporation Limited located at Banaharpalli village, Jharsuguda District, Odisha - Amendment in Terms of Reference – regarding.

[Proposal No: IA/OR/THE/554996/2025; F.No. J-13011/59/2008-IA.II (T)]

32.1.1: M/s Odisha Power Generation Corporation Limited (OPGCL) has made online application vide proposal no. IA/OR/THE/554996/2025 dated 14.10.2025 along with Form-3 and sought for amendment in the Terms of Reference (ToR) accorded by the Ministry vide letter no. J-13011/59/2008-IA.II (T) dated 02.11.2023 under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at item No. 1(d) – Thermal Power Plants under Category 'A' of the schedule of the EIA Notification, 2006 and appraised at the Central Level.

Name of the EIA consultant: Vimta Labs Ltd. Hyderabad [S. No. 222 List of ACOs with their Certificate / Extension Letter no. NABET/EIA/2326/RA 0301 Valid up to 26.05.2026.

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

32.1.2: The instant proposal of M/s OPGCL is for seeking amendment in the ToR accorded on 02.112023 for expansion of existing unit-1&2 (2x210 MW) and Unit-3&4 (2x660MW) by addition of unit 5 &6 (2x660MW) with respect to shifting of ash pond area 4 km away from the plant site (Area, Location & coordinates), stack height (modification in design parameters), and quantity of water consumption and effluent generation and land use area break up.

32.1.3: Details of the Terms of Reference (TOR) for which amendment is sought: Terms of Reference (ToR) was accorded by the Ministry vide letter no. J-13011/59/2008-IA.II (T) dated 02.11.2023 for Expansion of Coal Based Thermal Power Plant by addition of 2x660 MW (Unit 5 & 6) as Stage-III at Banaharpalli village, Jharsuguda district, Odisha by M/s Odisha Power Generation Corporation Limited for undertaking EIA/EMP study under the provisions of the EIA Notification, 2006.

S.	Details of	Terms of Reference (TOR)	Capacity	Date of
No.	Letter No.		(MW)	issuance
1	J-	Expansion of Coal Based Thermal	2x660 MW	02.11.2023
	13011/59/2008-	Power Plant by addition of 2x660 MW	(Unit 5 & 6)	
	IA.II (T)	(Unit 5 & 6) as Stage-III at	as Stage-III	
		Banaharpalli village, Jharsuguda		
		district, Odisha by M/s Odisha Power		
		Generation Corporation Limited		

- **32.1.4:** In pursuance to the ToR granted on 02/11/2023, following progress has been reported by the project proponent:
 - Baseline data was collected for the period October to December 2023 (Post monsoon period).
 - Public hearing was conducted at Jharsuguda district of Odisha
 Date and Time: 07.07.2025 at 10:00 A.M.

 Venue: Mouza Telenpali, at Hatapada Open Public Field, close to Plant boundary.

32.1.5: Details of the condition for which amendment is sought: The details of the amendment sought by the proponent in the ToR dated 02.11.2023 are summarized as below along with the justification:

Conditi on No	Details of Conditions as per ToR	Amendment Sought	Justificati on
Subject	Expansion of Coal Based Thermal Power Plant by addition of 2x660 MW (Unit 5 & 6) as Stage-III at Banaharpalli village, Jharsuguda district, Odisha by M/s Odisha Power Generation Corporation Ltd Terms of References (TOR) – reg.	Expansion of Ib Thermal Power Station by addition of 2x660 MW (Unit 5 & 6) as Stage-III at Banharpali village, Jharsuguda district, Odisha by M/s Odisha Power Generation Corporation Ltd Terms of References (TOR) – reg.	Considering a more unique name of the Project Title.
Annexur e (3) Point No. V	Total water requirement is 2, 16,000 KLD including existing water requirement of 1, 24,000 KLD of which fresh water requirement be met from Hirakud Reservoir. Permission obtained from Water Resource Department, Govt, of Odisha for 52.98 cusecs (129619 KLD) for Stage-I & II. Application was	Total water requirement is 2, 05,600 KLD including existing fresh water requirement of 1, 24,000 KLD which is being met from Hirakud Reservoir. Permission obtained from Water Resource Department, Govt, of Odisha for 52.98 cusecs (129619 KLD) for Stage-I & II. The water requirement for stage-III	As MoEF&CC notification dated 11 th July-2025, the SO2 emission standards for Category-C thermal power plants has been waived off. Since Ib Thermal Power Station (ITPS) of OPGC falls under

Conditi on No	Details of Conditions as per ToR	Amendment Sought	Justificati on
	filed for 38.84 cusecs (95024 KLD) water allocation.	will be 81,600 KLD which will be met from Hirakud Reservoir. Permission in this regard has already been obtained from Water Resource Department, Govt, of Odisha for drawl of 38.84 cusecs (95024 KLD) water for Stage-III.	Category-C as per classification of CPCB; there will be no requirement for installation of FGD for the proposed project, however; since the construction of FGD for the existing units have almost been completed and there is a plan to run the FGD as of date, there will be no change in the existing water consumption data provided. For proposed Stage-III since there will be no installation of FGD, the stated water consumption for proposed unit will reduced by 10400 KLD. Thus the total water requirement will be 205600 KLD in place mentioned
The details of the project Annexur e (3) Point No. Vi	Effluent of 15650 KLD including existing 9800 KLD quantity will be treated through Effluent Treatment plant of capacity existing 9600 KLD and proposed 9600 KLD. The plant will be based on Zero Liquid discharge system. Sewage water will be treated by using existing STP- 1000 KLD.	Effluent of 15602 KLD including existing 9800 KLD quantity will be treated through Effluent Treatment plant of capacity existing 9600 KLD and proposed 9600 KLD. The plant will be based on Zero Liquid discharge system. Sewage water will be treated by using existing STP- 1000 KLD.	As MoEF&CC notification dated 11th July-2025, the SO ₂ emission standards for Category-C thermal power plants has been waived off. Since Ib Thermal Power Station (ITPS) of OPGC falls under Category-C as per classification of CPCB; there will be no requirement for installation of FGD for the proposed project, however; since the construction of FGD

Conditi on No	Details of Conditions as per ToR	Amendment Sought	Justificati on
	e-KYC	C4s	for the existing units have almost been completed and there is a plan to run the FGD as of date, there will be no change in the existing effluent generation data provided. For proposed Stage-III since there will be no installation of FGD, the stated effluent generation for proposed unit will reduced by 48 KLD.
The details of the project Annexur e (3) Point No. Viii	2 units of 660 MW Turbine generator sets of coal fired boiler operated with supercritical steam parameters. Electro Static Precipitators with a stack of height of 150 m will be installed for controlling the particulate emissions within the statutory limit of 30 mg/Nm3.	2 units of 660 MW Turbine generator sets of coal fired boiler operated with supercritical steam parameters. Electro Static Precipitators with a stack of height of 275 m will be installed for controlling the particulate emissions within the statutory limit of 30 mg/Nm3.	As MoEF&CC notification dated 11th July-2025, the SO ₂ emission standards for Category-C thermal power plants has been waived off. Since Ib Thermal Power Station (ITPS) of OPGC falls under Category-C as per classification of CPCB; there will be no requirement for installation of FGD. Thus regulation of minimum stack height of 275 m will be applicable
Annexur e (3) Point No. Xii 5. Details of fuel and Ash disposal Ash	Ash Pond / Dyke – Area: 131.523 ha An area of 131.523 Ha for Ash Pond will be acquired which has already identified adjacent to the Plant site boundary. Details GPS Coordinates of unit	Ash Pond / Dyke – Area:109.38 ha An area of 109.38 ha for Ash Pond has been identified and will be acquired. The identified piece of land is around 4 Km (Aerial) distance from the Plant Boundary & is situated at Kumarbandh village.	It came in to notice that the identified land of 131.523 ha at Adhapada village which was adjacent to the plan boundary was notified by MCL under Coal Bearing Act in the year 1985. This was intimated to OPGC by MCL

Conditi	Details of Conditions as per		Amendment Sought		Justificati
Pond/Dyke (Area, Locatio n & Coordin ates) Average height of area above MSL (m)	Ash Pond-1 Ash Pond-2	ToR A. 21°41'22.40"N 83°53'33.95"E B. 21°41'49.18"N 83°53'51.82"E C. 21°41'01.92"N 83°54'50.06"E D. 21°40'39.69"N 83°54'23.19"E A. 21°38'33.34"N 83°54'50.37"E B. 21°39'04.81"N 83°55'08.41"E C. 21°38'48.48"N 83°55'54.87"E D.21°38'29.97"N 83°55'06.07"E	Ash Pond	GPS Coordina tes A. 21°41'56.79"N 83°55'56.47"E B. 21°42'16.25"N 83°55'41.96"E C. 21°42'28.44"N 83°55'15.35"E D. 21°42'09.41"N 83°55'7.35"E	vide its Letter date 03.05.2025. The above mentioned land of 131.523 ha at Adhapada village is covered with thick vegetation with high canopy density and construction of ash pond in this location would have led to felling of large number of trees.
Point No. Xii 5. Stack Height (m) & Type of Flue	One (1) twin-flue chimney with common windshield for the two units have been envisaged for the proposed power station. The total height of the chimney has been considered as 150 m. The flues will be of mild steel construction with glass wool insulation. The chimney windshield would be of RCC slip-form construction.		common units have the propo- total heigh been con- flues wind construction insulation windshield slip-form	d would be of RCC construction.	As MoEF&CC notification dated 11th July-2025, the SO2 emission standards for Category-C thermal power plants has been waived off. Since Ib Thermal Power Station (ITPS) of OPGC falls under Category-C as per classification of CPCB; there will be no requirement for installation of FGD. Thus regulation of minimum stack height of 275 m will be applicable
Point	Existing:	5133 m³/hr (124000	Existing:	5166 m ³ /hr (124000	As MoEF&CC notification dated 11 th

Conditi	Details of Conditions as per	Amendment Sought	Justificati
on No	ToR		on
No. Xii	KLD)	KLD)	July-2025, the SO2
6. Water	Proposed: 3800 m ³ /hr (92000	Proposed: 3400 m ³ /hr (81600	emission standards for Category-C thermal
Require	KLD)	KLD)	power plants has been
ment	Upon Expansion: 8933 m ³ /hr	Upon Expansion: 8566 m ³ /hr	waived off. Since Ib
Quantity	(216000 KLD)	(205600 KLD)	Thermal Power
of water			Station (ITPS) of OPGC falls under
require ment:			Category-C as per
ment.	210		classification of
	1640	Ca.	CPCB; there will be
			no requirement for installation of FGD
			for the proposed
		I	project, however;
	B	TYES	since the construction
		alas J	of FGD for the
	Z / Q ' A	E COULD BY	existing units have almost been
		() () () ()	completed and there is
			a plan to run the FGD
	(3)		as of date, there will
			be no change in the existing water
	7		consumption data
	2 10		provided. For
	0 25.	and the second	proposed Stage-III
	70	204 - C 5/10 15	since there will be no installation of FGD,
		CISTI SITE	the stated water
	30. CP	CGREEN	consumption for
		GRE	proposed unit will
	n _c	0,0	reduced by 10400 KLD. Thus the total
		ent	water requirement
	e-p	over outs	will be 205600 KLD
		ayments	in place mentioned
			216000 KLD.
Point	Land Requirement:	Land Requirement:	> It came in to notice
No. Xii	Existing (Stage-I & II):	Existing (Stage-I & II):	that the identified land of 131.523 ha
7. Land	a) TPP site including township:	a) TPP site including township:	at Adhapada
area Breaku	263.637 Ha	262.561 Ha	village which was adjacent to the
p:	b) Vacant or unutilized land:	b) Vacant or unutilized land:	adjacent to the plan boundary was
	60.703 Ha	60.703 Ha	notified by MCL
Land Require			under Coal
Require	c) Ash Pond: 350.17 Ha (Outside	c) Ash Pond: 231.04 Ha (Outside	Bearing Act in the

Conditi on No	Details of Conditions as per ToR	Amendment Sought	Justificati on
		DI A	-
ment:	Plant)	Plant)	year 1985. This was intimated to
a) TPP Site	d) MGR: 294 Ha		OPGC by MCL
	e) Raw water reservoir: 0 Ha	Note:98 Ha of Ash Pond-B has	vide its Letter date 03.05.2025.
b) Ash Pond	f) Green Belt: 172.579 Ha	been capped & reclamation certificate has already been	> The above
c)	g) Others: 0 Ha	obtained from OSPCB. 21.13	mentioned land of 131.523 ha at
Townsh		Ha area of land has been kept as buffer & unutilized to	Adhapada village
ip		maintain a minimum distance	is covered with thick vegetation
d)		of 500 m from HFL of Hirakud	with high canopy
Railway		Reservoir.	density and construction of ash
Siding &		d) MGR: 294 Ha	pond in this
Others		e) Raw water reservoir: 0 Ha	location would have led to felling
e) Raw Water		f) Green Belt: 173.453 Ha	of large number of trees.
Reservo		g) Others: 0 Ha	urees.
ir		Carlotte Land	
f)	Land Requirement:	Land Requirement:	05
Green Belt	Proposed (Stage-III):	Proposed (Stage-III):	U.
g) Others	a) TPP site including township: 60.703 Ha	a) TPP site including township: 60.703 Ha	
	b) Vacant or unutilized land: 0 Ha	b) Vacant or unutilized land: 0 Ha	
	c) Ash Pond: 131.523 Ha (Adjacent to Plant)	c) Ash Pond: 109.38 Ha (Outside Plant)	
	d) MGR: 294 Ha	d) MGR: 0 Ha	
	e) Raw water reservoir: 0 Ha	e) Raw water reservoir: 0 Ha	
	f) Green Belt: 0 Ha	f) Green Belt: 0 Ha	
	g) Others: 0 Ha	g) Others: 0 Ha	
	Note:	Note:	
	• Stage-III installation (main plant & auxiliaries) will be carried out in an area of 60.703 Ha of Vacant land available adjacent to existing Stage II (2 x 660 MW) of area 263.637 Ha including	• Stage-III installation (main plant & auxiliaries) will be carried out in an area of 60.703 Ha of Vacant land available adjacent to existing Stage II (2 x 660 MW) of area 262.561 Ha including	

Conditi on No	Details of Conditions as per ToR	Amendment Sought	Justificati on
	township facilities. No additional land is proposed to be acquired for the Stage-III project. To cater future requirement of ash pond 131.523 Ha land will be identified and acquired as per MoEF&CC Guideline i.e. 0.1 ha / MW.	township facilities. No additional land is proposed to be acquired for the Stage-III project (Main Plant Area). To cater future requirement of ash pond 109.38 Ha land will be identified and acquired as per MoEF&CC Guideline i.e. 0.1 ha / MW.	
Point No. Xii 7. Land area Breaku	The complete land is in possession of OPGCL and work can be started immediately without any hindrance.	The land for main plant area (60.703 Ha) is in possession of OPGCL (Inside existing plant boundary) and work can be started immediately without any hindrance.	It came in to notice that the identified land of 131.523 ha at Adhapada village which was adjacent to the plan boundary was
Status of Land Acquisi tion	Name of State of Stat	For Ash pond 109.38 ha land has been identified and will be acquired.	notified by MCL under Coal Bearing Act in the year 1985. This was intimated to OPGC by MCL vide its Letter date 03.05.2025. The above mentioned land of 131.523 ha at Adhapada village is covered with thick vegetation with high canopy density and construction of ash pond in this location would have led to felling of large number of trees.
Point No. Xii 7. Land	Break-Up of land-use of TPP site a. Total land required for project components – 60.703 ha	Break-Up of land-use of TPP site a. Total land required for project	It came in to notice that the identified land of 131.523 ha
area Breaku p:	b. Private land – 0 ha	components – 60.703 ha (Main Plant)	at Adhapada village which was adjacent to the plan boundary was
Break- Up of	c. Land already acquired (existing) – 60.703 ha	b. Land already acquired (existing) for Main Plant area – 60.703 ha	notified by MCL under Coal Bearing Act in the

Conditi	Details of Conditions as per	Amendment Sought	Justificati
on No	ToR		on
land- use	d. Forest land – 0 ha	c. Private Land for Ash Pond- 107.81 Ha	year 1985. This was intimated to OPGC by MCL
of TPP site:		d. Govt. Land for Ash Pond- 1.56 Ha	vide its Letter date 03.05.2025.
a. Total land required for project compon ents	e-KYC	d. Forest land – 0 ha	The above mentioned land of 131.523 ha at Adhapada village is covered with thick vegetation with high canopy density and construction of ash
b. Private land	R	IV_{E}	pond in this location would have led to felling
c. Govern ment land	KIX S REEL	र देशते एक	of large number of trees.
d. Forest land			SS
TOR Applica tion	NO	Yes	During drone videography, trees were observed in the
Part-B Point		610 Numbers of trees to be felled	proposed plot plan of Unit#5 & Unit#6. Besides some trees
No. 9.2	2/3/	CGREE	which were less than 30 cm girth width a
Whethe r any clearanc e of	е-р	ayments e.Rro	couple of years back has increased in girth diameter. Hence tree felling is envisaged.
existing vegetati on due to			
project activity ?			

32.1.7: 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

S. No		ase No/Title	Name of the Court	Brief summary of the case	Last date of hearing	Next date of hearing	Directio n / Action taken by the PP
1	A _l	riginal pplication o.89/2024/EZ	NGT	This matter portent to the breach of Ash Pond-C was occurred on 09.12.2023. The Applicant Gopinath Majhi is the General Secretary of Hirakud Budi Anchal Sangram Samiti, a forum to protect the interest of displaced persons of Hirakud Dam Project. It has been alleged that OPGC is not able to manage the Flyash in the existing capacity.	12.09.2025	25.11.2025	Case is pending
2		HRC Case o. 3475/2023	OHR C	Suo-Motu case Dispute related to breaking of ash pond.	19.04.2025	Not a	Case is pending

Note: Apart from the above 2 nos, of court cases related to environment, 58 nos. of non-environment (Arbitration, service, MSME etc.) related court cases are pending at different courts.

B. Summary of Show Cause Notices (Last two years)

S.	Issuing	Date	Reasons for	Status of	Present status
No	authority		issuance of	reply	
			SCN	submission	
1	MoEF&CC	26.10.2024	Show cause	In this regard	In this regard, a personal
		· @ //	Notice under	point wise	hearing had been
			Section-5 of	compliance	conducted at MoEF&CC
			Environment	report had	on 01.10.2025 under the
			(Protection)	been	chairmanship of Joint
			Act, 1986 for	submitted to	Secretary.
			Non-	MoEF&CC	All submissions of
			Compliances	compliance	OPGC in regard to non-
			observed with	division.	compliance/ partially
			respect to the		complied points have
			project		been consider as
			(Expansion of		complied and the
			existing Coal		committee suggested
			Based Thermal		OPGC to apply for EC
			Power Plant by		amendment with respect
			addition of		to the condition of Green

S.	Issuing	Date	Reasons for	Status of	Present status
No	authority		issuance of	reply	
			SCN	submission	
			2×660 MW(Endowment Fund as
			Unit 3 & 4) at		OPGC has already
			village		surplus the statutory
			Banharpali, in		requirement of 33% and
			Jharsuguda		uses fund for
			District on		development of Green
			Orissa by M/s		Belt.
			OPGC Ltd.		The proceedings of the
					said meeting is expected
			VC .		to be circulated shortly.

C. Summary of violation

Any violation case pertaining to the project on	No violation case pertaining to
following:	this project.
i. The Environment Protection Act, 1986	
ii. Van (Sanrakshan Evam Samvardhan) Adhiniyam,	<u> </u>
1980.	
iii. The Wild Life (Protection) Act, 1972	7

Observations and Deliberations of the Committee

32.1.8: The Committee noted the following:

- i. Instant proposal is for seeking for following amendment in the Terms of Reference (ToR) letter dated 02.11.2023:
 - Shifting of ash pond area 4 km away from the plant site (Area, Location & coordinates),
 - Stack height Modification in design parameters inline with the MoEF&CC Notification dated 11/07/2025
 - Quantity of water consumption and effluent generation
 - Land use area break up for the existing TPP and proposed TPP
- ii. The baseline data for the instant proposal was collected during October to December, 2023 and public hearing for the project was conducted by the OSPCB on 07/07/2025. It was informed that public hearing for the project was conducted by OSPCB for the new ash pond location situated 4 km away from the project site designated for the expansion project.
- iii. Due to the proposed shifting of ash pond 4 km away from the plant site, the extent of changes in the study area involved & corresponding environmental site settings, adequacy of baseline monitoring stations including the locations in and around the new ash pond area, public hearing proceedings wherein the new ash pond area has been recorded and the concerns of land losers of the new ash pond area, land acquisition details of new ash pond as per MoEF&CC O.M. dated 7/10/2014 & 19/02/2025 have neither made available in the application nor in the presentation made before the EAC. Besides, no information was made available regarding the

Right of way land requirement which will be connecting the main plant site and new ash pond area.

- iv. As per the ToR accorded, the area of existing ash pond for stage I & II was 350.17 Ha whereas in the instant amendment this has been revised to 231.04 Ha and the percentage of ash utilization is only 6.33% for the last year. No justification has been provided by the proponent in this regard.
- v. The area for ash pond per MW is reported to 0.11 ha/MW [340.2 Ha/3060MW]. Proponent needs to revisit the same and reduce the area requirement of the ash pond.
- vi. Proposed ash pond area is near by the Hirakund Reservoir. HFL data for the same along with adequate protection measures adopted needs to be furnished.
- vii. There are total two pending cases related with Environment w.r.t breach of Ash Pond. One show cause notice was issued by the MoEFCC under Section-5 of Environment (Protection) Act, 1986 for Non-Compliances observed with respect to Expansion of existing Coal Based Thermal Power Plant by addition of 2×660 MW (Unit 3 & 4). In this regard, a personal hearing was conducted at MoEF&CC on 01.10.2025. The outcome of the show cause needs to be submitted by the proponent.
- viii. It appears that the proposed project site falls under the severely polluted area as per the CEPI score of CPCB. Proponent needs to submit factual information in the regard and additional environmental safeguards to be followed have to be explicitly spilled out.
 - ix. In view of the above, EAC was of the considered view that PP needs to revise and submit the proposal afresh with supporting documents and factual information for further consideration.

Recommendations of the Committee

32.1.9: In view of the foregoing and after deliberations, the Committee *recommended to return the proposal in its present* form and asked the proponent to revisit the entire application by incorporating all the technical shortcomings inter-alia including the above and thereafter proposal shall be submitted by the proponent for fresh consideration by the EAC.

Agenda no. 32.2

4x600 MW Thermal Power Plant by M/s. Jindal Power Limited (JPL) at Villages Tamnar, Taluk Gharghoda, District Raigarh, Chhattisgarh – Reconsideration for Amendment in Environmental Clearance based on ADS reply – reg.

[Proposal No. IA/CG/THE/472414/2024; F. No. J-13012/117/2008-IA. II (T)]

32.2.1: M/s. Jindal Power Limited has made an online application vide proposal no. IA/CG/THE/472414/2024 dated 10/05/2024 seeking for amendment in Environmental Clearance dated 18.03.2011 and its subsequent amendment granted therein for the project namely "4x600 MW unit Coal based Thermal Power Plant located at Village Tamnar, Taluk Gharghoda, District Raigarh, Chhattisgarh" by M/s Jindal Power Limited (JPL) for

utilization of existing ash dyke of 4x250 MW situated in an area of 198 Ha for 4x600 MW TPP. Due to this proposed amendment, there will be no ash pond for 4x600 MW TPP and area of 236 Ha meant for ash pond will be used for other purposes.

The above proposal was earlier considered by the EAC – Thermal in its 11th meeting held on 27-28th June, 2024 and recommended for amendment in EC subject to stipulation of additional environmental safeguards. Subsequently, the proposal was again referred back to the EAC with an observation that whether EAC has taken into consideration scheduled action plan and asked for any inspection. Accordingly, the proposal was again considered by the EAC in its meeting held on 1/10/2024 wherein EAC deferred the proposal for want of additional information and also recommended for a site visit by the sub-committee of EAC – Thermal. The site visit by the sub-committee was completed during 3-4th January, 2025 and the proponent submitted the reply to the additional information through Parivesh on 06/02/2025. The said proposal was further placed before the 20th EAC meeting held on 24/02/2025, wherein the committee partially recommended for amendment in EC to use existing ash dyke of 4x250 MW for 4x600 MW TPP for 2 year i.e. till 30.06.2026 subject to stipulation of additional environmental safeguards. The proposal was again referred back to the EAC by the Ministry for further examination regarding adequacy of existing ash dyke of 4x250 MW. Accordingly, the proposal was placed before the EAC in its meeting held on 20/06/2025 wherein the Committee deferred the proposal and sought for a closure report against the 31 non-compliances as reported in the certified compliance report dated 25/04/2025 including the non-compliance to the provisions contained under the ash utilization notification 2021 for the existing ash dyke of 4x250 MW. Further, proponent was requested to submit the circular slip analysis of the existing ash dyke of 4x250 MW to ensure the stability of the same as it has been proposed to be used for disposal of ash from 4x600 MW forever.

Propoent has uploaded the additional information on PARIVESH web portal on 14/10/2025 and the same was considered by the EAC in its 32nd meeting held on 30/10/2025.

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

32.2.2: Details of the EC for which amendment is sought:

i. Jindal Power Ltd. (JPL) is operating 1000 MW (4x250 MW) & 2400 MW (4x600 MW) thermal power plants located at village Tamnar, District Raigarh, Chhattisgarh. Details of the EC obtained and its implementation status is summarized as below:

S. No.	Units	EC date	ents COD	Status of implementation
1.	2x250 MW (Phase I)	24.09.1997	08.12.2007 & 15.06.2007	Fully implemented and the units are
2.	2x250 MW (Phase II)	08.06.2006	16.04.2008 & 05.09.2008	under operation
3.	2x600 MW (Units#1&2)	18.03.2011	27.08.2014 & 09.11.2014	
4.	2x600 MW (Units#3&4)	04.11.2011	15.01.2015 2.12.2016	

- ii. The 1000 MW plant was constructed in two phases. Phase I and Phase –II, each comprising of two units of 250 MW.
- iii. Existing ash dyke for 4x250 MW has been constructed in an area of 198 Ha.
- iv. The 4x600 MW (2400 MW) units were granted EC in two parts i.e. on 18.03.2011 (Unit # 1 &2) and on 04.11.2011 (Unit # 3 & 4). As per EC dated 18.03.2011, a separate ash dyke near Rodapali village was to be constructed for 4x600 MW TPP. However, the Ash dyke could not be constructed as the land for the proposed ash dyke area became part of a coal block area. Based upon the request of JPL, MoEF&CC vide letter dated 26.04.2017 granted permission to construct the ash dyke on 236 Ha land at an alternate location near village Dolesera which is located at a distance of 4.3 km from the TPP site. Consent to Establish (CTE) for the same was granted by Chhattisgarh Environment Conservation Board (CECB) vide letter dated 27.04.2022. However, JPL not constructed the new ash dyke for 4x600 MW in an area of 236 ha which was permitted by MoEF&CC. The earlier amendment obtained in this regard are summarized as below:

G NI	D (0 1 0		
S No	Date of accord of	Remarks	
	EC amendment		
a.	10.01.2014	Amendment in EC w.r.t. transportation of coal, utilization of existing ash dyke of 4x250 MW for 4x600 MW TPP for 03 years.	
b.	26.04.2017	Amendment in EC w.r.t. transportation of coal, utilization of existing ash dyke for 4x600 MW TPP for 02 more years till construction of new dyke & change in coal source from imported to domestic, change in location of proposed dyke from Rodappli to near Dolesara village	
c.	28.08.2020	Amendment in EC for extension of permission for transportation of coal, utilization of existing ash dyke for 4x600 MW TPP till October, 2021.	
d.	28.10.2021	Amendment in EC for extension of permission utilization of existing ash dyke for 4x600 MW TPP till December, 2022.	
e.	24.02.2023	Amendment in EC for extension of permission utilization of existing ash dyke for 4x600 MW TPP till June 2024.	

v. The instant proposal is for amendment in Environmental Clearance of 4x600 MW Thermal Power Plant for utilization of existing ash dyke of 4x250 MW for 4x600 MW TPP permanent basis and the same is summarized as below:

Specific/General Condition No	Details of Conditions as per EC	Amendment Sought	Justification
Condition no. 3,	MoEF&CC has	Permission	• To conserve the land and

Specific/General Condition No Details of Conditions as per EC		Amendment Sought	Justification
4 & 5 of the EC	granted permission	to continue	maximize ash utilization, the
amendment	to use existing ash	use of	Company has planned to not
dated	dyke of 4x250 MW	existing ash	construct the new ash dyke for
24.02.2023.	for disposal of	dyke of	4X600 MW on an area of 236
	unutilized ash of	4x250 MW	hectares which was permitted
	4x600 MW till June,	for unutilized	by MoEF&CC.
	2024.	ash of 4x600	As the Company is utilizing
		MW	about 100% ash, the existing
		permanently.	ash dyke volume will be
	JVC	_	adequate to continue bottom
	0.1		ash disposal from 4x250 MW
			and 4x600 MW TPPs.

32.2.3: Adequacy of the existing ash dyke of 4x250 MW in 198 Hectares

The existing ash dyke is located in 198 ha. area. The dyke has four lagoons namely 1A, 1B, 2A and 2B. The height of the existing ash dyke is 18 m from the Ground level. It is submitted that the height of the existing ash dyke will not be increased further.

Details of Annual Ash Generation, Utilisation and Disposal in Ash dyke (in lakh metric tons)

TPP	Total Ash Generation	Fly Ash Utilisation	Bottom Ash disposal in Ash dyke	Remarks
4x250 MW	23.1	18.48	4.62	Dried ash is excavated
4x600 MW	61.81	49.45	12.36	from the ash dyke and
Total	84.91	67.93	16.98	utilised in mine backfilling. Thus, 100% ash is being utilised

Presently, 164.5 Lakhs metric tons ash from 4x250 MW TPP & 4x600 MW TPP is stored in the 198 ha existing ash dyke. The Company plans to excavate and utilize 17.25 Lakh metric tons ash annually from the dyke which will ensure the volume availability in the dyke for the life of the 4x250 MW & 4x600 MW TPP.

Details of existing ash dyke regarding volume availability

S	Details	Lagoon	Lagoon	Lagoon 2A	Lagoon 2B	Total
No.		1A	1B			
1.	Status of ash	Active	Active	Active	Capping is	
	dyke (Active/	with Ash			in progress	
	Exhausted- Yet to	excavation				
	be reclaimed/	in				
	reclaimed)	progress				
2.	Area (ha)	52.6	68.8	42.7	33.9	198
	` ′					

S No.	Details	Lagoon 1A	Lagoon 1B	Lagoon 2A	Lagoon 2B	Total
3.	Dyke Height (m)		12	18 m	- L	<u>L</u>
4.	Volume (m ³)	6680000	8120000	4440000	2360000	21600000
5.	Quantity of ash stored (metric tons)	164.5 Lakh	Metric tonne	es till 29 th Oct	2025	
6.	Available volume in percentage and quantity of ash that can be further disposed (Metric tons)	8.7% 544500	14.5%	24.67% 1030500	0%	2664000 Metric tons (296000 m³)
7.	Expected Life of ash pond (number of years and months)	119 days	239 days	226 days	0 days	584 days

The bottom ash (around 20% of the total ash generated) from the Power Plant has to be evacuated in slurry form and disposed to the ash dyke before the same can be dried and utilized. JPL is achieving the 100% ash utilization by utilizing the complete fly ash (which is 80% of the total ash generated) which is collected and evacuated in dry form, and by excavating and subsequently using the dried ash (approx. 20% of the total ash generated) from the ash dyke. Thus the company has sufficient volume available in the ash dyke for disposal of bottom ash in the ash dyke.

Action plan for excavation and use of already stored ash in the ash dyke

Year	Ash planned to be excavated (Lakhs metric tons)	Lagoon	Use of excavated ash
2025-26	17.25	1A, 1B & 2A	For mine void
2026-27	17.25	Q-Y	backfilling
2027-28	17.25		
2028-29	17.25	nents	
2029-30	17.25		
2030-31	17.25		
2031-32	17.25		
2032-33	17.25		
2033-34	17.25		
2034-35	17.25		
Total	172.5		

Thus, concurrent excavation and utilization of ash from the ash dyke will enhance the volume availability in the existing ash dyke. The expected life of ash dyke, basis the above mentioned excavation and utilization plan, will increase from 1.6 years till the life of the 4x250 MW & 4x600 MW TPP.

32.2.4: Study regarding Slope Stability of Ash dyke

The Department of Civil Engineering, National Institute of Technology (NIT) Raipur conducted the stability analysis. NIT Raipur submitted the Stability Analysis report on 01.01.2025. The slope stability analysis of ash dyke for both normal and Earthquake condition were done by circular slip analysis with the Geo-studio software.

The conclusion and recommendations of the report is:

"The ash dyke is analysed for steady seepage condition (normal) and steady seepage earthquake condition (seismic) for local and global stability analysis. Factor of Safety are obtained more than 1.5 to 1.0 for normal and seismic loading conditions, which fulfils the acceptance criteria for minimum factor of safety required as per IS 7894: 1975 (Reaffirmed 2002), "Code of practice for stability analysis of earth dams." Therefore, it can be concluded that:

- a. Ash dyke with 4th stage raising is observed to be stable and safe with current existing (fly ash filling and water ponding) condition and expected to perform satisfactorily.
- b. However, continuous inspection/ examination of the ash dyke is required periodically."

Measures taken by JPL for implementation of the recommendations of NIT Raipur are tabled below:

below.		
S No.	Recommendation of the NIT Raipur	Measures being taken by JPL
1.	Internal drainage system: for efficient functioning	Rock toe and toe drains are
	of the existing and raised embankment, the	cleaned on regular basis to
	internal drainage system consists of rock toe,	maintain efficiency of the
	drains etc. should perform satisfactorily and shall	drainage system.
	be cleaned periodically.	Status: Complied.
2.	Soil cover: Ash embankment shall be covered	The embankment has been
	with non-erodible soil cover of at least 0.5 m	covered with 0.5 mtr. thick soil
\	thickness with natural soil and compacted to	and 95% maximum dry density
	maintain required dry density of 95% of	is being maintained.
	Maximum Dry Density (MDD)	Status: Complied.
		e**
3.	Regular Survey of the site and monitoring the	An internal Dyke Committee
	condition of the ash dykes, lagoon and	ensures weekly visit and
	surrounding soil is required to ascertain the safety	submit report to the Plant head
	of the ash dyke. Situations which are considered	to ascertain the safety of the
	as undesirable i.e. formation of cracks, gulleys	dyke.
	etc. in and around the ash dyke can be avoided by	Status: Complied.
	early detection.	
4.	An effective groundwater control of the	The toe drain, slope drain,
	decantation of the ash dyke lagoon and surface	cross drain are directed to Ash
	water management during rainy seasons is utmost	water recovery system
	important. It shall be instrumental for maintaining	(AWRS). The decantation well
	the static stability with permissible limits.	is connected to AWRS through
		underground of Hume pipe

S No.	Recommendation of the NIT Raipur	Measures being taken by JPL
		1000 MM dia.
		Status: Complied.
5.	Good practices like instrumentation and	Instrumentation like
	monitoring of the ash pond should be	Piezometer, settlement marker
	implemented. Surface settlement and movement	are already installed and being
	markers can be an important instrumentation to	monitoring on regular basis.
	check the time wise deformations.	Status: Complied.
6.	All the slopes shall be properly maintained. Trees	Slope is well maintained and
	and large root plants shall not be allowed to grow	being monitored on regular
	on slopes.	basis. No trees or plant roots
	VAC	are there on the slopes.
	e	Status: Complied.
7.	All slopes must be clear properly so that any	All slope are properly
	distress occur in these portion shall be identified	maintained and being
	immediately.	monitored on regular basis.
		Status: Complied.

NIT Raipur vide its letter dated 04.08.2025 has clarified that the factor of safety obtained from circular slip analysis are more than 1.5 – factor of safety obtained as 2.21 to 2.67 for normal conditions and and 1.52 to 1.89 for earthquake loading conditions. It has been further clarified that the above obtained FOS meets the acceptance criteria as per IS 7894: 1975.

32.2.5: Compliance to the observations of EAC sub-committee site visit report: The Subcommittee of EAC – Thermal visited the project site on 03rd Jan to 04th Jan 2025. The recommendations of the Subcommittee of EAC – Thermal and its compliance status by the proponent are as below:

Sl.	EAC sub-committee	Compliance status
No	recommendation	rects if She P
1.	The PP should ensure that	Being complied
	the back filling of mine	All out efforts are being made to utilize ash in accordance
	voids in combination with	with the Fly ash utilization notification.
	over burden material is	Currently, JPL is utilizing the fly ash in back filling of mine
	carried out under care of	along with OB in Gare Palma IV/1 and Gare Palma
	environmental safe	IV/2&3 coal mines owned by JPL, Tamnar as per approved
	guards in compliance	mine plan and guidelines of DGMS & CPCB guidelines.
	with the guidelines of	dymente
	DGMS and CPCB.	
2.	PP should carry out	Being complied
	regular monitoring of the	JPL has engaged IIT-Kharagpur and CIMFR, Dhanbad for
	area around back filling	monitoring of long-term impacts of dumping of fly ash and
	site to ensure there is no	leaching of heavy metals on soil and water of study area.
	leaching or deterioration	There is no sign of deterioration of any environmental
	of any environmental	parameter w.r.t Ground water or surface water sources due
	parameter particularly	to the backfilling.
	w.r.t. Ground Water and	
	Surface water sources.	
3.	M/s JPL should present	The Conclusion of the studies carried out by IIT,

Sl.	EAC sub-committee	Compliance status
No	recommendation	
	the findings and recommendations of the studies carried out by IIT, Kharagpur, CIMFR,	Kharagpur, CIMFR, Dhanbad and NIT Raipur w.r.t. the impact analysis of back filling of mine voids and slope stability of ash dyke are as below:
	Dhanbad and NIT Raipur	Conclusion of NIT Raipur Report on Slope Stability of
	w.r.t. the impact analysis of back filling of mine voids and slope stability of Ash Dyke.	Ash dyke: The ash dyke is analysed for steady seepage condition (normal) and steady seepage earthquake condition (seismic) for local and global stability analysis. Factor of Safety are obtained more than 1.5 to 1.0 for normal and seismic loading conditions, which fulfils the acceptance criteria for minimum factor of safety required as per IS 7894: 1975 (Reaffirmed 2002), "Code of practice for stability analysis of earth dams." Therefore, it can be concluded that: • Ash dyke with 4th stage raising is observed to be stable and safe with current existing (fly ash filling and water ponding) condition and expected to perform satisfactorily. • However, continuous inspection/ examination of the ash dyke is required periodically. Conclusion of latest IIT Kharagpur study: The following specific conclusions are derived: 1. The possibility of air quality degradation, due to the practice of fly ash-mixed dumping has not been observed,
	e-compliance	based on the air quality monitoring of the studied stations during the study period. 2. The heavy metal concentrations (in both surface and ground water samples) did not exceed the permissible limits, hence, heavy metal poisoning of surrounding flora, fauna and other aquatic lives are not seen to be imminent threats. 3. The geo-environmental contamination level due to current mining activities (including fly-ash mixed backfilling) has showed no significant evidence to impact the lives of flora, fauna and other aquatic lives in the surrounding areas.
		Conclusion of latest CIMFR Dhanbad study: 1. Soil Sampling and Physicochemical Parameter Analysis No major impacts observed on the soil physicochemical parameters of the area due to mining activity. As per soil physical parameters reclaimed site with fly ash is well managed to develop vegetation and ecosystem which may be similar to natural forest. Overall all the physicochemical parameters for all sampling sites are similar to the samples

Sl.	EAC sub-committee	Compliance status
No	recommendation	from forest area. 2. Water and Fly Ash Sampling and Physicochemical Parameters- Quality assessment of groundwater for drinking purposes suggest that concentration of most of the analyzed parameters are within the recommended drinking water limits of BIS (2012). All the analysed parameters of the surface water collected are well within the prescribed limits of surface water quality standards under class C of IS:2296 and can be used for drinking purposes after conventional treatment followed by disinfection. The analysis results of mine water collected from proposed mine voids shows that pH are within the recommended range of 5.5 - 9.0 for effluent discharge. Concentrations of F-, Cl-, SO42- and NO3- in the analysed mine water samples are below the specified limits for effluent discharge. All the measured metals like Fe, Mn, Pb, Zn, Cu, Cr, Cd, Ni, As and Hg are also observed below the recommended limits for effluent discharge in inland surface water. 3. TCLP test: TCLP test and study of radioactivity of radionuclide in coal ash samples shows no major impacts on the water quality parameters of the area due to disposal of coal ash in mine voids. 4. Air Quality Monitoring The data indicates that the air quality in these locations are within acceptable standards concerning heavy metal contamination, ensuring a safer environment for the residents. Regular monitoring is recommended to maintain these standards and to identify any potential changes in the concentrations of these metals over time.
4.	M/s JPL should also work to enhance the utilization of fly ash in areas such as Cement manufacturing, brick, and tiles and hollow block manufacturing and highways construction etc.	Being complied The Company is also supplying the ash to JSP cement plant and nearby brick plants as per their requirements. Further the company provides the ash for road/ highway construction as and when the requirement arises.
5.	For control of SO ₂ emissions PP should install FGD systems at the earliest as per the provisions of OM of date	As per the MoEF&CC's Gazette Notification G.S.R.465 (E) dated 11.07.2025, the TPP at Tamnar is categorized as Category C and thus the condition to install FGD is not applicable on Category C TPPs.

Sl.	EAC sub-committee	Compliance status	
No	recommendation		
	30/12/2024 as issued by		
	MoEF&CC.		
6.	PP should make roadside	Being complied	
	plantation along the	Avenue plantation along the route (both sides of the road)	
	transport route of coal.	of coal transportation from is being done on continuous	
		basis.	
		The Company has already planted approx. 1 lakh sapling	
		on the road side.	
7.	Miyawaki plantation	JPL has done Miyawaki plantation during monsoon season	
	should also be done by PP	in the nearby area of plant.	
	in the plant area.	VC .	

32.2.6: Certified compliance report of the existing ECs

MoEF&CC was in receipt of certified compliance report for the existing ECs on 25/04/2025. The report was deliberated in the EAC meeting held on 20/06/2025 wherein EAC sought for closure report against the 31 non-compliances as reported in the certified compliance report dated 25/04/2025 including the non-compliance to the provisions contained under the ash utilization notification 2021 for the existing ash dyke of 4x250 MW. The report in this regard was issued by the RO on 23/09/2025. Details of the non-conformities obaserved in the said report and the present status as reported by the proponent is given as below:

S.No.	EC Condition	Abridged comments of Sub- Office, Raipur as per report dated 23.09.2025	32	Reply of JPL
1.	e-compliant	This Sub-Office is not accepting the reply submitted by the Project Authority on account of the following facts: Coal transportation for the above Thermal Power Plant is still being continued through trucks by road and partly through Cross Country Pipe Conveyor (CCPC). Further existing Cross Country Pipe Conveyor (CCPC) is not connected till their captive Coal Mines, since CCPC work for part of the stretch connecting the Mines yet to be completed. Project Authority relied upon the Ministry's gazette notification S.O. 1561 (E) dated 21/05/2020 and the judgment dated 08/11/2024 in the O.A. No. 70 of 2023. The said gazette notification S.O. 1561 (E) dated 21/05/2020 mandates compliance of several conditions referred therein. Further, the order dated 15/02/2022 of Hon'ble		It is submitted that the Cross Country Pipe Conveyor (CCPC) is connecting the TPP with the Gare Palma IV/2 & IV/3 coal mine. Gare Palma IV/1 coal mine is adjacent to the GP IV/2 & IV/3 coal mine and thus the coal from these mines to the TPP is transported through CCPC only. Further it is submitted that the coal being sourced under Fuel Supply Agreement (FSA) from MCL mines has to be transported by road. The coal transportation by road from MCL mines to TPP at Tamnar has been deliberated by the Hon'ble NGT in the O.A. no. 70/2023 and through its judgment dated 08.11.2024 has held that in absence of Railway infrastructure, the transportation of coal for the Power Plant is required to run the plant. It is further submitted that the construction of Railway line that is being undertaken by South East Central Railway and the transportation of coal from MCL mines to JPL Tamnar has to be done by the road till the completion of the line.

S.No.	EC Condition	Abridged comments of Sub-	Reply of JPL
		Office, Raipur as per report	
		dated 23.09.2025	
		NGT in the O.A. No.104 of	
		2018 in the matter of Shivpal	
		Bhagat & Ors. Vs UOI has	
		been passed after the above	
		said Ministry's gazette	
		notification S.O.1561 (E)	
		dated 21/05/2020.	
		• The said Order dated	
		15/02/2022 of Hon'ble NGT	
		has not been strike down by	
		any appellate Tribunal/Court.	
		• Further, Project Authority in	
		their reply referred another	C
		NGT Order dated 08/11/2024	AL.
		and in the said Order also	
		Hon'ble NGT(CZ) expressly	
		directed that the railway route	
		for this project must be	
		completed by 01/04/2025.	
/	/	• Project Authority has not	
		complied with the	
	V	recommendations covered in	2 1/2
		the Order dated 15/02/2022 of	(A)
	\simeq	Hon'ble NGT in the Original	
		Application No.104 of 2018.	
		Non-compliance of the NGT	92
		orders will tantamount	30.
		contempt of the Hon'ble	70 M
		Tribunal and thus Ministry	
		may take appropriate view	
		based on the reply of the	
		Project Authority and	.59
	1	prevailing various Judicial	S. C.
	Q \	Orders.	
2.	Condition no.	In the observed non-compliances,	• It is humbly submitted that the
1	(iv) of EC J-	it was sought implementation	implementation of CA is carried out by
	13011/15/93-	details regarding Compensatory	the State Forest Department and the
	II(T) dated	Afforestation and catchment area	Company does not have any control
	24.09.1997	treatment plan. In the ATR, Project	over the implementation of CA scheme
		Authority has not provided any	to be undertaken by the State
		supporting documents regarding	Government Department.
		implementation of Compensatory	Catchment area treatment plan has been
		Afforestation and catchment area	implemented and the information
		treatment plan as stipulated and	regarding the implementation of the
		thus no comments are offered by	same was submitted to MoEF. Copy of
		this Office. Ministry may take	the supporting document have been
		appropriate view.	submitted.
3.	Condition no.	Based on the third-party report on	1. IRO has already reported that the Green
	(ix) of EC J-	monitoring & evaluation of Green	belt has been developed which has been
	<u>13011/15/93-</u>	Belt / plantation made available	done as per the stipulation and as per
	II(T) dated	during the visit, this Office has	the CPCB guidelines.
	<u>24.09.1997</u>	already reported the factual status.	2. However, the IRO has mentioned that
		Project Authority has not made	the details of submission of green belt
		available any supporting document	proposal to MoEF in 1997 has not been
		in their ATR regarding details	provided.
		submitted to the Ministry by 31st	3. In this regard, it is submitted that the
		December, 1997 as stipulated in	company could not find the relevant

S.No. EC Cond	S .	Reply of JPL
	Office, Raipur as per report dated 23.09.2025	
	the condition and thus n comments are offered. Ministr may take appropriate view base on the compliance details availabl with the Ministry.	submitted in 1997 i.e. 28 years ago. It is humbly submitted that in light of the
4. Condition (xii) of EC 13011/15/9 II(T) datec 24.09.1997	available any corrective actio taken on the observation rather relied upon the Ministry Notification dated 21/05/2020. I this regard, it is submitted that the Coal from the captive mines (Gar Palma mines) is being transporter partly by road and partly through Cross Country Pipe Conveyor (CCPC). Coal sourced from other mines/places are being transported through trucks by road. Though provision has been made for collection of fly ash in dry form Ash slurry transportation system has also been installed for disposation of fly ash in the ash dyke. In cast of utilization in mine void bact filling and land filling, wet as with moisture is being transported in covered trucks. In view of the above, the condition	Coal from Gare Palma IV/1 and Gare Palma IV/2 & IV/3 coal mines is transported using existing Cross Country Pipe Conveyor (CCPC). Only coal procured from MCL under Fuel Supply Agreement (FSA) has to be transported by road as there is no railway infrastructure. As has been reported by the IRO, wet ash for backfilling is being transported in covered trucks. The Company is ensuring that the ash is not being transported in dry form to prevent the fugitive emissions.
5. Condition (xiv) of EC 13011/15/9 II(T) date 24.09.1997 Condition (ii) of EC J-13011/8/ IA.II(T) d 08.06.2006 Additiona Condition 11(ii) of EC Amendme letter no. J 13011/8/20 IA.II(T) d 13.08.2021 Specific Condition (xvi) of EC letter no. J 13012/117 IA.II(T) d 18.03.2011 Additiona Condition	available any document in support of 100 percent fly ash utilization achieved within 10 years from the year of operation of the project. 100% fly ash utilization has not been achieved within 9 years. As per the stipulated condition in 4x600 MW TPP EC, Utilization of 100% Fly Ash generated shall be made from 4th year of operation and status of implementation shall be reported to the Regional Office of the Ministry from time to time. Project Authority has not achieve 100% fly ash utilization. Project Authority should have taken further follow-up action of explored with other appropriate institutes as stipulated for alternation new technology to utilize dry flash	Company has been able to achieve 100% ash utilisation now. Ash utilisation achieved by the TPP during last 05 years is as below: Year 4x250 4x600M MW W 2021-22 84.7 89.62 2022-23 98.9 98.8 2023-24 100.3 101.9 2024-25 94.3 92.0 2025-26* 102.9 103.7 *till 30th September, 2025 As evident from the above, the Company is achieving about 100% ash utilization for the TPP during last 4 years. It is submitted that the ash utilization by the TPP may be evaluated in line with the latest Fly ash Utilization Notification, 2021 and its amendment. Further, JPL has been regularly submitting the fly sub utilization and its

S.No.	EC Condition	Abridged comments of Sub- Office, Raipur as per report dated 23.09.2025	Reply of JPL
	16(ii) of EC Amendment letter no. J- 13012/8/2006- IA.II(I) dated 03.01.2019		 It is submitted that the company has been using ash for road making. JPL has also supplied ash to the Public Works Department for utilization in the construction of road/ embankment as per requirement received.
6.	Condition no. (xvi) of EC J- 13011/15/93- II(T) dated 24.09.1997	Project Authority in their reply claims that the condition has been complied with. However, Project Authority has not made available any documents regarding the awards passed by the District Administration, total no. of Project Affected Family, total no. of Project Affected People, No. of persons paid compensation, total compensation assessed against land, Amount of compensation paid, Amount of compensation persons yet to be provided job, No. family yet to be rehabilitated. Ministry may take appropriate view based on the compliance details available, if any, in the Ministry.	 All project affected families have been compensated as per directives of State Govt. of C.G. It is submitted that 1120 families have been compensated and no R&R is pending w.r.t. the said thermal power plant and its ancillary facilities. Thus it is requested that the condition may be considered to be complied with.
7.	Condition no. (xx) of EC J- 13011/15/93- II(T) dated 24.09.1997	 As per the condition, Monitoring Committee should be constituted for reviewing the compliance to various safeguard measures by involving recognized local NGOs, Pollution Control Boards, Institutions, Experts etc. Monitoring Committee needs to be constituted by the Project Authority in coordination with the authorities concerned as stipulated. Project Authority in their reply/ATR informed that it was requested the CECB for constitution of the Committee. Monitoring Committee has not been constituted for reviewing the compliance even after the lapse of 28 years from the grant of the EC. In view of the above, the condition may be treated as not complied. 	 It is submitted that the Company requested CECB for formation of Monitoring Committee was submitted to vide letter No. JPL/EMD/RO/OCT-2010 dated 7/10/2010 as the Company was of the understanding that the CECB would suggest all concerned for formulation of a committee. However, now the Company vide its letter dated 13.10.2025 has requested CECB to nominate a member from the Board to constitute the committee inter alia comprising representative of IIT Kharagpur. Further, it is submitted that the company has engaged IIT, Kharagpur for monitoring of compliance to various safeguard measures.
8.	Additional condition no. 16 (iii) of EC Amendment letter no. J-	As per the condition, the approved ash pond site at village Dolesara/Roadapalli in an area of 239 ha. vide Ministry's letter dated 26.4.2017 for disposal of ash	1. At the outset it is submitted that the company has raised the height of ash dyke only after obtaining prior permission from MoEF&CC vide EC amendments dated 03.01.2019 and

S.No.	EC Condition	Abridged comments of Sub-	Reply of JPL		
512 (00	20 001141011	Office, Raipur as per report	110423 01 01 2		
		dated 23.09.2025			
	13012/8/2006- IA.II(I) dated 03.01.2019,	generated from 4X600 MW Power Plant shall be operationalized within one year so that there	13.08.2021. 2. It is submitted that no raising of height of the ash dyke has been undertaken with a transport of MaEE 8.00.		
	Specific Condition no. (xviii) of EC letter no. J- 13012/117/2008- IA.II(T) dated 18.03.2011, Additional Condition no. 3(viii), (xiii)- EC Amendment letter no. J13012/117/2008 -IA.II(T) dated 26.04.2017, Additional Specific Condition no. 6	should not be any necessity to further raise the existing dyke height. Reportedly the height of the existing ash dyke has been raised 4 times and also using the existing ash dyke of 4x250 MW without constructing new ash dyke. In such circumstances, Project Authority ought to have amended the said condition before raising the height of the ash dyke. Project Authority in their reply / ATR submitted that an application has been submitted for EC amendment for continuing use of existing ash dyke for 4x600 MW	without approval of MoEF&CC. 3. Thus the condition is complied with. 4. The instant proposal of EC amendment has been submitted for seeking permission for use of existing ash dyke of 4x250 MW as no separate ash pond will be constructed for 4x600 MW.		
	(A) (xxxiii)- EC Amendment Letter no. J- 13012/117/2008. IA.II(T) dated 10.01.2014	and thus Ministry may take appropriate view based on the factual status.	DSS		
9.	Specific Condition no. (xvii) of EC letter no. J- 13012/117/2008- IA.II(T) dated 18.03.2011	• As informed by the Project Authority during the visit, as part of rehandling ash from the ash pond was partly used for levelling of low-lying areas, which was also confirmed from the CECB. However, it appears that presently rehandling of ash from the ash dyke is used for only backfilling of mine voids at Gare Palma.	 Ash was utilised for low-lying area filling in the year 2023-24 after obtaining necessary NOC from CECB. Since then no ash has been utilised for low-lying area filling. Re-handling of ash from the ash dyke is done by utilising the same for backfilling of mine voids at Gare Palma IV/1 and Gare Palma IV/2 & IV/3 coal mines of JPL. 		
10.	Specific Condition no. (xix) of EC letter no. J- 13012/117/2008- IA.II(T) dated 18.03.2011	In the ATR, Project Authority has not produced any document regarding NOC obtained from the State Pollution Control Board for ash disposal in the mine voids and intimation submitted by the Project Authority to the CECB before undertaking the activity rather Project Authority claims that as per the notification & guidelines, separate NOC from CECB is not required for utilizing the fly ash for backfilling in the mine voids. This Office is not in agreement with the reply of the Project Authority. Even for backfilling in small voids of stone quarry, NOC is being issued by the State PCB.	 Fly ash is being utilised in backfilling of mine voids as per the mandate under the provisions of the Fly ash Utilization Notification dated 31.12.2021 and amendments thereof. As per the notification or fly ash utilisation guidelines, separate NoC from State PCB is not required for utilizing the fly ash in backfilling of the mine voids. The Consent to Operate GP IV/1 dated 21.02 2025 and GP IV/2 &3 21.01.2025 mandates to use fly ash from the Thermal power plant for backfilling. 		

S.No.	EC Condition	Abridged comments of Sub- Office, Raipur as per report dated 23.09.2025	Reply of JPL
		Ministry may take appropriate view.	
11.	Specific Condition no. (xxi) of EC letter no. J- 13012/117/2008- IA.II(T) dated 18.03.2011	During the visit, Project Authority claimed that as per the survey of Govt. PHE Department, all the neighboring villages of project area are free from fluoride contaminated water, hence there is no need to supply fluoride free potable drinking water in the villages and schools and thus it was reported that if the said condition is not applicable, Project Authority ought to have amended the said EC condition. Project Authority in their ATR reported that the Company is supplying free potable drinking water to nearby villages as part of CSR programme. But, failed to furnish the name of the villages where such water supply is made under CSR and the supporting documents from the District Administration or local authority concerned. Project Authority twisting the facts for their own convenience. No comments are offered in the absence of any documental	 As per letter received from Public Health Engineering Sub-Division, District- Raigarh, Chhattisgarh vide its letter dated 16.05.2025 has confirmed that the neighbouring villages of project area are free from fluoride contaminated water. Copy of the letter from PHE Department has been submitted. However, JPL has been supplying free potable drinking water to nearby villages during lean season as part of its CSR programme. It is submitted that there is no fact twisting being done by the Company and the information submitted is true without any distortion.
1	30.	proof. Ministry may take appropriate view.	'L'
12.	Specific Condition no. (xxii) of EC letter no. J- 13012/117/2008- IA.II(T) dated 18.03.2011	Project Authority in their ATR submitted an unsigned document comprising of the CSR activities undertaken and expenditure incurred from 2011-2015. Ministry may take appropriate view.	 Details regarding the annual expenditure by the company on the CSR activities from 2011-15 were submitted as an annexure to the covering letter printed on Company's letterhead and duly signed by the signatory. Copy of the details of expenditure incurred during 2011-15 has been submitted.
13.	Specific Condition no. (xxiii) of EC letter no. J- 13012/117/2008- IA.II(T) dated 18.03.2011	As per the condition, while identifying CSR activities it shall be ensured that need based assessment for the nearby villages within study area shall be conducted to study economic measures with action plan which can help in upliftment of poor section of society. Income generating projects consistent with	 The CSR plan for every year is prepared based upon the need-assessment survey being carried out by our field team. The detail of the need based activities in nearby villages for the period of FY-2025-26 has been submitted.

S.No.	EC Condition	Abridged comments of Sub-	Reply of JPL			
		Office, Raipur as per report	T. V			
		dated 23.09.2025				
		the traditional skills of the people				
		shall be undertaken.				
		Project Authority claims that CSR				
		plan is prepared and implemented				
		based upon the need-based				
		assessment. Ministry may take				
1.1	~	appropriate view.	4 50			
14.	Specific Specific	In the reply /ATR, Project	1. The annual social audit has been carried			
	Condition no.	Authority reiterated that the annual social audit	out by engaging Xavier Institute of			
	(xxiv) of EC letter no. J-	has been carried out through	Social Service, Ranchi (XISS-Ranchi), which is a well renowned, highly			
	13012/117/2008-	Xavier Institute of Social Service,	recognised and a prestigious institute in			
	<u>IA.II(T) dated</u>	Ranchi.	India.			
	18.03.2011	As per the condition, annual	2. Thus it is requested that the condition			
	10.03.2011	social audit needs to be carried out	may be considered to be complied with.			
		through Government institute. The	may be considered to be complied with.			
		above referred institute is not a				
		Government Institute and it is a				
		private institute. Ministry may	7			
		take appropriate view.				
		व जिल्ला				
15.	Specific	Project Authority in their ATR	• The details of schemes being			
	Condition no.	submitted an unsigned document	implemented for tribal families was			
	(xxv) of EC	as Annexure-10 in support of the	annexed as an attachment to the			
	letter no. J-	compliance of the condition.	covering letter duly signed by the			
	<u>13012/117/2008-</u>	Ministry may take appropriate	signatory and printed on the Company's			
	IA.II(T) dated	view.	Letterhead.			
	<u>18.03.2011</u>		• Thus it is requested that the condition			
			may be considered to be complied with.			
			// 5			
16.	Additional	A 4 100 1				
	Specific Conditions of	As per the condition, a long term	Development of in-built continuous			
	Condition no. 6	study of radio activity and heavy	monitoring mechanism is not available.			
	(A) (xxx)- EC	metals contents on coal to be used shall be carried out through a	The radioactivity in coal was analysed			
\ \	Amendment Letter no. J-	reputed institute. Thereafter	by NABL accredited laboratory for			
	13012/117/2008.	mechanism for an in-built	determination of Radioactivity in Coal			
	IA.II(T) dated	continuous monitoring for radio	and fly ash.			
	10.01.2014	activity and heavy metals in coal	Study of heavy metals contents in coal and fly ash from a reputed			
		and fly ash (including bottom ash)	institute/organization is carried out			
		shall be put in place.	regularly.			
		Project Authority in their	The radioactivity report for coal, fly ash			
		reply/ATR, not made available	& bottom ash have been submitted.			
		compliance status regarding in-	25 contain and have been submitted.			
		built continuous monitoring				
		mechanism in place for radio				
		activity and heavy metals in coal				
		and fly ash (including bottom ash).				
		If the condition is not				
		implementable, which needs to be				
	A 7 74.0	amended from the MoEF&CC.				
17.	Additional					
	Specific C. III	Reply furnished by the Project	Periodic maintenance of the road for			
	Condition no.	Authority does not reveal the	coal transportation is being done of JPL			
	(xxxvi) - EC	consultation held with Government	on regular basis.			
	Amendment	Authorities regarding compliance	Presently JPL is installing road light			
	<u>letter no.</u>	of the condition and details of the	from the plant gate to mine end.			

S.No.	EC Condition	Abridged comments of Sub-		Reply of JPL
		Office, Raipur as per report dated 23.09.2025		
	J13012/117/2008 -IA.II(T) dated 27.03.2015	periodic maintenance of the coal transportation road undertaken by the project proponent on their own expenses.	•	Latest photographs of the road have been submitted.
18.	Additional Condition no. 3(v)- EC Amendment letter no. J13012/117/2008 -IA.II(T) dated 26.04.2017	Details of coal characteristics, source & location of coal mine, traffic study, submitted to the Ministry after the allocation of coal has not been made available in their reply/ATR.		Majority of coal for the TPP is sourced from Gare Palma IV/1 and Gare Palma IV/2 & IV/3 coal mines of Jindal Power Limited. Remaining coal is being sourced from MCL mine under long-term Fuel Supply Agreement (FSA), details of which have been submitted to the MoEF&CC. Apart from the above, no coal is being sourced under any other scheme notified by M/s Coal India Limited.

32.2.7: 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

Details of NGT court case

S.	Case	Name	Brief	Last	Next	Direction / Action taken by the
No	no.	of the	Summary	date of	date of	PP
		Court	of the Case	Hearing	Hearin	
	21		CA.		g	
1.	Origina	NGT,	News report	08.11.20	Dispose	As per NGT order dated
	1	Centr	published in	24	d	08.11.2024 Original Application
	Applic	al	the	CODI	EL	No. 70/2023 stands disposed of
	ation	Zone	Newspaper	CK		with following directions:
	No.	Y/2	named			MoEF&CC is directed to
	70/202	0	Indian			periodically monitor the
	3		Express,			compliances of the
			Daily News	31/mon	+5	environmental conditions and
			Paper dated	ayıneı		after scrutiny of the
			4th			environmental conditions to take
			February,			necessary / proper action in case
			2022,			of violation.
			Kolkata,			The state is directed to strictly
			Late City			comply Rule 22 of the
			Edition			Chhattisgarh District Mineral
			titled			Foundation Trust Rule, 2015
			"Noncompli			and Rule 10(1)(b)(1) Odisha
			ance of EC			District Mineral Foundation
			conditions			Trust Rule, 2015 which provides
			by different			the expenditure from the trust

S.	Case	Name	Brief	Last	Next	Direction / Action taken by the
No	no.	of the	Summary	date of	date of	PP
		Court	of the Case	Hearing	Hearin	
					g	
			units inter-			fund of the District Mineral
			alia Tamnar			Foundation Trust for the overall
			Thermal			development of the area affected
			Plant of			by the Mining or mining is
			M/s. Jindal			related operations in accordance
			Power			with the annual action plan
			Limited,			prepared by the Managing
			Chhattisgar			Committee and approved by the
			h.			Governing Council of the Trust.
			6-1			The DMF fund must be utilised
						in accordance with rules and for
						proper maintenance of the road
				T < /		and welfare for the public.
			D	LV	F	The railway route must be
					~ . (completed by 01.04.2025 and
				K रहीति		MoEF&CC with the Railway
	7			1.	1743	Board will regularly monitor the
			7 3		16.37	progress of the completion of
						the railway route.
			/67		3 11	The South East Central Railway
				V 40	100	(SECR) Bilaspur is directed to
						periodically monitor the
			7 \ M.		الأنتر	progress of the railway
			2/10			construction and to ensure its
			3			completion before 01.04.2025.

B. Summary of Show Cause Notices: NIL

C. Summary of violation: NIL

32.2.8: Proposed use of land in place of Ash dyke- It is submitted that Government of Chhattisgarh has issued an Invitation to Invest vide letter dated 30.06.2025 to JPL to develop a Thermal Power Plant. Thus the Company intends to utilize the land for the developing the thermal power plant.

Observations and deliberations of the Committee:

32.2.9: The EAC noted the following:

i. As per EC dated 18.03.2011, a separate ash dyke near Rodapali village was to be constructed for 4x 600 MW. However, the Ash dyke could not be constructed as the land for the proposed ash dyke area became part of a coal block. Based upon the request of JPL, MoEF&CC vide letter dated 26.04.2017 granted permission to construct the ash dyke on 236 ha land at an alternate location near village Dolesera located at a distance of 4.6 km from the plant site. Consent to Establish (CTE) for the same was granted by Chhattisgarh Environment Conservation Board (CECB) vide letter dated 27.04.2022. The present proposal of project proponent is not to construct

the ash dyke in the 236 Ha and use the existing ash dyke developed for 4 x250 MW permanently.

- ii. The Company's management intends to use the 236 Ha of land acquired for ash dyke for setting up of the new power plant as per the Invitation to Invest of Government of Chhattisgarh dated 30.06.2025.
- iii. The Committee noted that proponent has obtained amendment in the existing EC with respect to use of existing ash dyke of 4x250 MW for unutilized ash of 4x600 MW on 10/01/2014, 26/04/2017, 28/08/2020, 28/10/2021 and 24/02/2023.
- iv. Adequacy of the existing ash dyke of 4x250 MW for disposal of ash from 4x600 MW on permanent basis was deliberated upon by the EAC in detail. The committee deliberated on the existing ash dyke volume availability, Action plan for excavation and use of already stored ash in the ash dyke, Slope Stability study of Ash dyke by NIT Raipur. After deliberations, the Committee opined that recommendations of NIT Raipur shall be complied with.
- v. The expected life of existing ash dyke will increase from 1.6 years till the life of the 4x250 MW & 4x600 MW TPP due to the concurrent excavation and utilization plan.
- vi. Committee deliberated on the sub-committee site inspection report and reply submitted by the proponent.
- vii. Committee deliberated on the report of Regional Office dated 23/09/2025 and observed the following:
 - Project proponent needs to comply with the recommendations covered in the Order dated 15/02/2022 of Hon'ble NGT in the Original Application No.104 of 2018.
 - Project proponent shall submit the relevant supporting documents regarding implementation of Compensatory Afforestation and catchment area treatment plan, Third-party report on monitoring & evaluation of Green Belt / plantation, documents regarding 100 percent fly ash utilization, R&R plan & its implementation status, formation of monitoring committee, CSR activities undertaken, details of schemes being implemented for tribal families, periodic maintenance of the coal transportation road undertaken and details of coal characteristics to the Regional Office of MoEF&CC.
 - Project Authority needs to apply for amendment in the existing ECs for the conditions related to in-built continuous monitoring for radio activity and heavy metals in coal, annual social audit by govt institute.

After deliberations, the Committee opined project proponent to take corrective action on the above and compliance status to be submitted to the Ministry and Regional Office within 30 days from the date of grant of EC amendment.

viii. The EAC also deliberated on the additional information submitted by the project proponent and found it satisfactory.

Recommendations of the Committee:

32.2.10: In view of the foregoing and after the detailed deliberations, the Committee *partially recommended* the instant proposal for grant of amendment in the ECs dated 18/03/2011 & 04/11/2011 and its subsequent amendment dated 24/02/2023 as detailed below **subject to stipulation of following additional specific conditions.** Other terms and conditions prescribed in EC dated 18/03/2011 & 04/11/2011 and its subsequent amendments shall remain unchanged:

Paragraphs of EC	Details as per EC	Amendment sought by	Recommendations of EAC as per MoM
amendment	amendment	the project	
letter dated	dated	proponent	
24/02/2023	24/02/2023	./VC	
Para no 3, 4	Permission	Permission	Permission to use existing ash dyke of 4x250
& 5 of EC	to use	to continue	MW for 4x600 MW TPP permanently subject
amendment	existing ash	use existing	to stipulation of following additional specific
dated	dyke of	ash dyke of	conditions:
24.02 <mark>.2023</mark>	4x250 MW	4x250 MW	Y .C .C
	for unutilized	for	and a
7 5	ash/ bottom	unutilized	
	ash of 4x600	ash of 4x600	(3)
	MW has	MW	
	been granted	permanently	S
	till June		
	<mark>2</mark> 024.		4 0

Additional specific conditions:

- i. 236 Ha of additional land acquired for ash dyke for 4x600 MW shall be utilized only for developing the thermal power plant as per Government of Chhattisgarh Invitation to Invest letter dated 30.06.2025. No other activity is permitted in the said land. Compliance status in this regard shall be submitted to the Regional Office in this regard along with the six monthly compliance report.
- ii. Ash dyke stability study for the 4x250 MW situated in an area of 198 Ha. shall be conducted through reputed government organisation once in six months and the recommendations of the study report shall be duly complied with.
- iii. All the recommendations of the stability analysis report of NIT Raipur shall be complied with.

iv. PP shall expedite the planation activities and plantation shall be done in this financial year (2025-26) as per the action plan given below:

Sl. No	Location	Area	No of Saplings	Remark
1	From Plant Gate	Approx. 09 KM	10,000	On completion of road
	to Gare Mines	length		construction being done by PWD
				and as per availability of road

				side land
2	Near Ash dyke	Approx. 4 Acres	5000	Gap plantation. Replacement and strengthening of existing plantation
3	Miyawaki Planation	1.5 Acres	10,000	-
4	Plantation in nearby Villages	-	30,000	Through CSR
5	Distribution of fruit tree saplings	-	25,000	Through CSR
6	In and around the Plant	-	20,000	Replacement and strengthening of existing plantation
Tota	al	7640	1,00,000	

- v. PP shall expedite to start construction of nearby roads, geotagged pictures of before and after construction of the road shall be submitted.
- vi. PP shall deploy vacuum based vehicle for everyday cleaning of the road in and around plant site at least for 5 KM. Sprinkling on the road side shall be carried out regularly (twice in a day) and data shall be maintained mentioning about its functionality.
- vii. PP is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development. An action plan in this regard shall be submitted to concern RO.
- viii. Project proponent shall comply with the following non-conformities as reported in the report of the Regional Office dated 23/09/2025 within 30 days from the date of issue of EC amendment letter:
 - Project proponent needs to comply with the recommendations covered in the Order dated 15/02/2022 of Hon'ble NGT in the Original Application No.104 of 2018.
 - Project proponent shall submit the relevant supporting documents regarding implementation of Compensatory Afforestation and catchment area treatment plan, Third-party report on monitoring & evaluation of Green Belt / plantation, documents regarding 100 percent fly ash utilization, R&R plan & its implementation status, formation of monitoring committee, CSR activities undertaken, details of schemes being implemented for tribal families, periodic maintenance of the coal transportation road undertaken and details of coal characteristics to the Regional Office of MoEF&CC.
 - Project Authority shall apply for amendment in the existing ECs for the conditions related to in-built continuous monitoring for radio activity and heavy metals in coal, annual social audit by govt institute.

Agenda No. 32.3

32.3. Proposed 3x800 MW Coal Based Ultra Super Critical Nilanchal Thermal Power Plant by M/s. Orissa Thermal Energy Private Limited at Village Rahangol, Kandarei, Tehsil Athagarh, District Cuttack, Odisha - Amendment in Terms of Reference (ToR) – regarding.

[Proposal No: IA/OR/THE/553944/2025; F.No. J-13012/02/2025-IA.I(T)]

32.3.1: M/s. Orissa Thermal Energy Limited (OTEL) a subsidiary of Adani Power Limited has made an online application *vide* proposal no. IA/OR/THE/553944/2025 dated 08.10.2025 along with Form 3 seeking for amendment in Terms of Reference (ToR) granted vide letter no. J-13012/02/2025-IA.I(T) dated 21.02.2025. The proposed project activity is listed at item No. 1(d) – Thermal Power Plants under Category 'A' of the schedule of the EIA Notification, 2006 and appraised at the Central Level.

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

- **32.3.2:** MoEFCC has granted Terms of Reference (ToR) vide **File no. J-13012/02/2025-IA.I(T)** dated **21.02.2025** for Proposed 3x800 MW Nilanchal Thermal Power Project to conduct EIA-EMP Study as per the provisions of EIA Notification, 2006.
- 32.3.3: Details of the Terms of Reference (TOR) for which amendment is sought: Terms of Reference (TOR) for proposed 3x800 MW Coal Based Ultra Super Critical Nilanchal Thermal Power Plant at Village Rahangol, Kandarei, Tehsil Athagarh, District Cuttack, Odisha was accorded by MoEF&CC on 21.02.2025 for undertaking EIA/EMP study.

S. No.	Details of Letter No.	Terms of Reference (TOR)	Capacity (MW)	Date of issuance
1.	J-13012/02/2025-IA.I(T)	Terms of Reference (ToR)	3x800 MW (2400 MW)	21.02.2025

- **32.3.4:** In pursuance to the ToR dated 21/2/025, PP has already completed the baseline data during October'2024 to December'2024 and public hearing is proposed in the Month of December'2025.
- **32.3.5:** Details of the condition/points for which amendment is sought: The details of the amendment sought by the proponent in the ToR dated 21.02.2025 are summarized as below:

Points/ S.No. of ToR	Details of Conditions as per ToR	Amendment Sought in the ToR Conditions	Justification
Point no. 10 (Sl. No i)	Environmental site settings: Land requirement for the proposed power project of 2400 MW capacity is about 331.49 Ha. Forest Land (inside the plant boundary): 9.235 Ha (barest minimum, scattered unavoidable forest patches). Proposal no. FP/OR/THE/513328/2024. Non-Forest Land is 322.26 Ha.	Land requirement for the proposed power project of 2400 MW capacity is about 331.49 Ha. Forest Land (inside the plant boundary): Forest diversion for 15.984 Ha. (barest minimum, scattered unavoidable forest patches). Proposal no FP/OR/THE/554363 /2025. Non-Forest Land is 315.506 Ha.	After detailed survey by Odisha Forest Department the forest land has been increased (from 9.235 Ha to 15.984 Ha) which are unavoidable forest patches identified within the Plant boundary.

Points/ S.No. of ToR		Details of Conditions as per ToR Amendment Sought in the ToR Conditions		Justification		
IUK	Facilities	Proposed Area (In Ha)	Facilities	Land Area (In Ha)	The Ash Dyke area has been revisited to accommodate	
	Main Plant (Plant Area including BTG, FDG, Water Facility, AHP Facility,	94.70	Main Plant (Including BTG, Water Facility, AHP Facility, Switchyard & Misc. Facility)		Cement Grinding Unit (CGU) to achieve 100% ash utilization.	
Point no. 10	Switchyard & Misc Facility) Coal		Coal Handling System (Coal Stock Yard including Rail Yard)	57.87		
(Sl. No ii)	Handling System (Coal	57.87	Water System (Reservoir)	22.26		
	Stock Yard including Rail	37.07	Green belt Township	9.71		
	Yard)		Ash pond	21.85		
	Water System (Reservoir)	22.26	Cement Grinding	8.50		
	Green belt	116.60	Unit (CGU) Total	331.49		
	Township	9.71	Total	331.47		
	Ash pond	30.35	-0-5			
	Total	331.49 Ha	St. Sally B	<u> </u>	After detailed survey by	
Point no. 10 (Sl. No iii)	Non- Forest Land- 322.26 Ha Forest land- 9.235 Ha Total land- 331.49 Ha Land is already under possession of the project except the following: Forest Land (inside the plant boundary): 9.235 Ha are forest Land (barest minimum, scattered unavoidable forest patches). Non- Forest Land- 315.5 Forest land- 15.984 Ha Total land- 331.49 Ha. Land is already under powith the company except Land (unavoidable forest inside the plant boundary): 15.984 Ha. Proposal FP/OR/THE/554363/20		possession acept Forest rest patches boundary):	Odisha Forest Department the forest land has been increased (from 9.235 Ha to 15.984 Ha) which are unavoidable forest patches identified within the Plant boundary.		
	Proposal no. FP/OR/THE/513328/2024.		otects of She 15			
Point no. 10 (Sl. No vii)	Area of the involved: 9.235 l Application for been submitted no. FP/OR/THE/	Stage I FC has vide proposal 513328/2024	Area of the forest land involved: 15.984 Ha. Application for Stage I FC has been submitted vide proposal no FP/OR/THE/554363/2025		After detailed survey by Odisha Forest Department the forest land has been increased (from 9.235 Ha to 15.984 Ha) which are unavoidable forest patches identified within the Plant boundary.	
Point no. 10 (Sl. No x)	Name of the ESZ: Kapilash Wildlife Sanctuaries Status of Notification: Kapilash Wildlife Sanctuary was notified by MoEF&CC vide notification S.O. 1659 (E) dated 17/06/2015. Distance of project from ESZ: 3.2 km Status of NBWL approval: Not required		Name of the ESZ Wildlife Sanctuaries Status of Notification Wildlife Sanctuary w by MoEF&CC vide S.O. 1659 (E) dated 1 Distance of project 0.776 km Status of NBWL apprequired	n: Kapilash vas notified notification 7/06/2015. from ESZ :	Distance certificate issued by DFO, Athgarh Forest Office vide letter no. 4070 dated 04.08.2025 and is enclosed. The Project site is at an aerial distance of 0.776 Km from Eco-Sensitive Zone (ESZ) of Kapilash Wildlife Sanctuary and 2.76 Km from the boundary of Kapilash Wildlife	

Points/ S.No. of ToR	Details of Conditions as per ToR	Amendment Sought in the ToR Conditions	Justification
Point no. 22 (Sl. No v)	Total area requirement of the project is 331.49 Ha [Private: 117.18 Ha; Govt.: 214.315 Ha]. The proposed project involves 9.235 Ha of Forest Land. Forest application for diversion of Forest land/patches has been submitted on 05/12/2024, proposal no. FP/OR/THE/513328/2024.	Total area requirement of the project is 331.49 Ha [Private: 184.914 Ha; Govt.: 130.596 Ha; and Forest: 15.984 Ha]. 15.984 Ha Forest land is involved and application for diversion of Forest land/patches has been submitted on 08.10.2025 proposal no. FP/OR/THE/554363/2025.	After detailed survey by Odisha Forest Department the forest land has been increased (from 9.235 Ha to 15.984 Ha) which are unavoidable forest patches identified within the Plant boundary.
Point no. 22 (Sl. No vii)	The Kapilash Wildlife Sanctuary was notified by MoEF&CC vide notification S.O. 1659 (E) dated 17/06/2015. PP informed that the project site is located at a distance of 3.2 km from the ESZ boundary of Kapilash Wildlife Sanctuary.	The Kapilash Wildlife Sanctuary was notified by MoEF&CC vide notification S.O. 1659 (E) dated 17/06/2015. PP informed that the project site is located at a distance of 0.776 km from the ESZ boundary of Kapilash Wildlife Sanctuary.	Distance certificate issued by DFO, Athgarh Forest Office vide letter no. 4070 dated 04.08.2025.
Specific ToR 1[A], (Sl No. 1.3)	Project proponent shall submit the stage I Forest Clearance for the diversion of 9.235 Ha of forest land envisaged under the project. Project proponent shall also obtain recommendations from the State Forest department regarding the impact of project on the nearby Reserved Forests along with the mitigation measures if any to be followed.	Project proponent shall submit the stage I Forest Clearance for the diversion of 15.984 Ha of forest land envisaged under the project. Project proponent shall also obtain recommendations from the State Forest department regarding the impact of project on the nearby Reserved Forests along with the mitigation measures if any to be followed.	After detailed survey by Odisha Forest Department the forest land has been increased (from 9.235 Ha to 15.984 Ha) which are unavoidable forest patches identified within the Plant boundary.

32.3.6: 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 (Last Two Years): Nil

C. Summary of violation

	violation case pertaining to the project following:	No.
i.	The Environment Protection Act,	
ii.	Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.	
iii.	The Wildlife (Protection) Act, 1972	

Written submission

32.3.7: PP vide letter dated 31.10.2025 has submitted the following/ Clarification as suggested

Additional Information	Information/ Clarification
PP shall submit mitigation measures	The Project site is at an aerial distance of 0.776
considering ESZ boundary and Kapilash	Km from Eco-Sensitive Zone (ESZ) and at 2.76
WLS.	Km from Kapilash Wildlife Sanctuary.
	The mitigation measures considering Kapilash
	WLS as below:
	 Boundary wall with adequate height shall be constructed.
	• Plantation and greenbelt of 100 m will be
	developed towards ESZ.
	• Biodiversity Assessment/ Wildlife
	Conservation & Management Plan will be prepared and implemented in consultation with
VVC	the local Forest Department.
6-K	• Efforts are made to minimize the plant
	activities to the extent possible towards the
	ESZ boundary.
	• A thick greenbelt will be developed along the
	plant boundary, internal roads and available
	areas of the project.
	 Wind breaking wall with adequate height will
	be constructed around the Coal Handling Plant
	area.
PP shall submit the details regarding the	The 15.984 Ha Forest patches within the Plant
usage of forest patches with coordinates.	boundary are scattered and unavoidable. The land
	use of the forest patches as far as possible will be
	for Greenbelt, Rainwater Harvesting, Water
	Reservoir & Cooling tower system, Railway
7 143	facility and administrative purpose.
2	The Authenticated DGPS Map from ORSAC is
3	submitted.

Observations and Deliberations of the Committee

32.3.8: The Committee noted the following:

- i. Instant proposal is for amendment in the ToR letter dated 21.02.2025 regarding the Land requirement, extent of the forest land involved and distance of project site from ESZ boundary.
- ii. Baseline data for the proposed project has already been collected for the period October'2024 to December'2024.
- iii. Public hearing is proposed to be held in the Month of December '2025.
- iv. EAC noted that Kapilash Wildlife Sanctuary is located at 0.776 km form the project boundary. PP needs to submit the mitigation measures for the same.
- v. EAC noted that there is a change in Area of the forest land from 9.235 Ha to 15.984 Ha. PP needs to submit stage-1 FC for the involvement of 15.984 Ha of forest land.
- vi. EAC deliberated the written information submitted by the PP and found it satisfactory.

Recommendation of EAC

32.3.9: In view of the foregoing and after detailed deliberations, the committee *recommended* the instant proposal for grant of following amendment in ToR dated 21.02.2025 **subject to uploading of written submissions**, as detailed below and stipulation of following additional specific ToRs. All Other terms and conditions prescribed in ToR dated 21.02.2025 shall remain unchanged:

Points/ S.No. of ToR	Details of Conc	litions as per	Condition	Amendment Sought in the ToR Conditions	
Point no. 10 (Sl. No i)	Environmental site settings: Land requirement for the proposed power project of 2400 MW capacity is about 331.49 Ha. Forest Land (inside the plant boundary): 9.235 Ha (barest minimum, scattered unavoidable forest patches). Proposal no. FP/OR/THE/513328/2024. Non-Forest Land is 322.26 Ha. Land requirement for the proposed power project of 2400 MW capacity is about 331.49 Ha. Forest Land (inside the plant boundary): Forest diversion for 15.984 Ha. (barest minimum, scattered unavoidable forest patches). Proposal no FP/OR/THE/554363 /2025. Non-Forest Land is 322.26 Ha.		Agreed		
	Facilities	Proposed Area (In Ha)	Facilities	Land Area (In Ha)	Agreed
Point	Main Plant (Plant Area including BTG, FDG, Water Facility, AHP Facility, Switchyard &	94.70	Main Plant (Including BTG, Water Facility, AHP Facility, Switchyard & Misc. Facility)	94.70	DS
no. 10 (Sl. No ii)	Misc Facility) Coal Handling System (Coal Stock	57.87	Coal Handling System (Coal Stock Yard including Rail Yard)	57.87	S
	Yard including Rail Yard)		Water System (Reservoir)	22.26	
	Water System	22.26	Green belt	116.60	
	(Reservoir) Green belt	`B.	Township	9.71	
	Township	116.60 9.71	Ash pond Cement Grinding	21.85	
	Ash pond	30.35	Unit (CGU)	8.50	0
	Total	331.49 Ha	Total	331.49	
Point 10	Non- Forest Land- 322 Forest land- 9.235 Ha Total land- 331.49 Ha		Non- Forest Land- 315 Forest land- 15.984 Ha Total land- 331.49 Ha.	a	Agreed
no. 10 (Sl. No	Land is already under project except the following the control of		Land is already under with the company e		
iii)	(inside the plant bound forest Land (barest n	dary): 9.235 Ha are ninimum, scattered	Land (unavoidable for	d (unavoidable forest patches de the plant boundary): 15.984	
	unavoidable forest patc FP/OR/THE/513328/20	24.	Proposal FP/OR/THE/554363/		
Point no. 10	Area of the forest land 9.235 Ha.	involved:	Area of the forest la 15.984 Ha.	nd involved:	Agreed
(Sl. No vii)	Application for Stage I FC has been submitted vide proposal no. FP/OR/THE/513328/2024		Application for Stage I FC has been submitted vide proposal no FP/OR/THE/554363/2025		
Point no. 10	Name of the ESZ: Sanctuaries Status of Notification:	•	Name of the ESZ Wildlife Sanctuaries Status of Notification	•	Agreed

Points/ S.No. of ToR	Details of Conditions as per ToR	Amendment Sought in the ToR Conditions	Recommen -dations of the EAC
(Sl. No x)	Sanctuary was notified by MoEF&CC vide notification S.O. 1659 (E) dated 17/06/2015. Distance of project from ESZ: 3.2 km Status of NBWL approval: Not required	Wildlife Sanctuary was notified by MoEF&CC vide notification S.O. 1659 (E) dated 17/06/2015. Distance of project from ESZ: 0.776 km Status of NBWL approval: Not required	
Point no. 22 (Sl. No v)	Total area requirement of the project is 331.49 Ha [Private: 117.18 Ha; Govt.: 214.315 Ha]. The proposed project involves 9.235 Ha of Forest Land. Forest application for diversion of Forest land/patches has been submitted on 05/12/2024, proposal no. FP/OR/THE/513328/2024.	Total area requirement of the project is 331.49 Ha [Private: 184.914 Ha; Govt.: 130.596 Ha; and Forest: 15.984 Ha]. 15.984 Ha Forest land is involved and application for diversion of Forest land/patches has been submitted on 08.10.2025 proposal no. FP/OR/THE/554363/2025.	Agreed
Point no. 22 (Sl. No vii)	The Kapilash Wildlife Sanctuary was notified by MoEF&CC vide notification S.O. 1659 (E) dated 17/06/2015. PP informed that the project site is located at a distance of 3.2 km from the ESZ boundary of Kapilash Wildlife Sanctuary.	The Kapilash Wildlife Sanctuary was notified by MoEF&CC vide notification S.O. 1659 (E) dated 17/06/2015. PP informed that the project site is located at a distance of 0.776 km from the ESZ boundary of Kapilash Wildlife Sanctuary.	Agreed, since the Distance certificate has been issued by DFO, vide letter no. 4070 dated 04.08.2025.
Specific ToR 1[A], (SI No. 1.3)	Project proponent shall submit the stage I Forest Clearance for the diversion of 9.235 Ha of forest land envisaged under the project. Project proponent shall also obtain recommendations from the State Forest department regarding the impact of project on the nearby Reserved Forests along with the mitigation measures if any to be followed.	Project proponent shall submit the stage I Forest Clearance for the diversion of 15.984 Ha of forest land envisaged under the project. Project proponent shall also obtain recommendations from the State Forest department regarding the impact of project on the nearby Reserved Forests along with the mitigation measures if any to be followed.	Agreed

Additional Specific ToRs

- i. Proponent shall submit the revised plant layout by excluding the pollution generation sources and increased the width of the green belt towards the ESZ boundary side.
- ii. Presence of flora/fauna shall be duly authenticated by the concerned DFO along with the recommendations of State Forest Department regarding mitigation measures to be adopted shall also be submitted as the proposed thermal power plant site is about 78 meters distance from the ESZ boundary.
- iii. Stage I FC (or) status of stage I FC for enhanced forestland of 15.984 ha shall be submitted as per the MoEF&CC O.M. dated 09/09/2011 & its amendment.
- iv. Project proponent shall carry out the cumulative EIA/EMP study including the proposed cement grinding unit. Further, requisite statuory clearances including the prior environment clearance for the proposed cement grinding unit shall be obtained from the concerned competent authority.

<u>ANNEXURE-I</u> <u>LIST OF PARTICIPANTS OF EAC (THERMAL) IN 32ND MEETING HELD ON 30TH</u> <u>OCTOBER, 2025 THROUGH VIRTUAL MODE</u>

S.	Name & Address	Role	30.10.2025
No.			
1.	Shri Inder Pal Singh Matharu, (I.F.S. Retd.)	Chairman	Present
2.	Shri Lalit Kapur	Member	Present
3.	Dr. Umesh Jagannathrao Kahalekar	Member	Present
4.	Dr. Santosh Kumar Hampannavar	Member	Present
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	Present
		Central Electricity	
	1	Authority (CEA)	
11.	Shri Harmeet Sawhney, Scientist 'E'	Representative of	Absent
	D > 00	Indian	
	्र इत्तान व	Meteorological	
		Department (IMD)	
12.	Prof. R M Bhattacharjee	Representative of	Present
		IIT/ISM Dhanbad	
13.	Shri Prasoon Gargava, Scientist 'F'	Representative of	Present
		Central Pollution	
		Control Board	
13.	Shri Sundar Ramanathan	Scientist 'F' &	Present
	2	Member Secretary	
14.	Dr. Rajesh Prasad Rastogi	Scientist 'D'	Present





ANNEXURE-II

<u>APPROVAL OF CHAIRMAN – EAC</u>

11/6/25, 11:03 AM

(311 unread) - Inbox - Mail (rp.rastogl@gov.in)

REVISED DRAFT MOM OF 32 EAC THERMAL HELD ON 30/10/2025

Sundar Ramanathan <r.sundar@nic.in>

Thu, 06 Nov 2025 11:01:02 AM +0530 INBOX

"RAJESH PRASAD RASTOGI" <rp.rastogi@gov.in>

TLS Learn more

======== Forwarded message =========

From: Inderpal Singh Matharu < matharu0204@gmail.com

To: "Sundar Ramanathan"<<u>r.sundar@nic.in</u>>
Date: <u>Thu, 06 Nov 2025 10:29:58 +0530</u>

Subject: Re: REVISED DRAFT MOM OF 32 EAC THERMAL HELD ON 30/10/2025

========= Forwarded message =========

Dear Sundar ji,

I have gone through the revised draft MoM of the 32 EAC Thermal held on 30/10/2025. All the points which were discussed in the meeting and amended in zero draft of the above meeting have been incorporated, hence I approve the same.

Sincerely yours

Inder Pal Singh Matharu

Chairman

Expert Appraisal Committee

(Coal mining and Thermal power)

MoEFCC, GoI

