

Government of India Ministry of Environment, Forest and Climate Change (Impact Assessment Division)



Agenda of Expert Appraisal Committee

Meeting ID	: IA/THE/13514/01/06/2023
Meeting Venue	: MoEF&CC
Meeting Type	: Video Conference
Agenda Generation Date	: 25-05-2023

The following proposals are being considered for deliberation in the Expert Appraisal Committee as per the schedule given below :

Meeting Schedule :

S.No	Meeting date	SA: ZOULT P	Time (From)	Time (To)
1	01 Jun 2023	PE AND	15:30 PM	17:30 PM
		7/200	12	·
		1	11	
Date of Me	eting : 01-06-2023		11	
			511	

Date of Meeting: 01-06-2023

S.No	Proposal No.	File No.	Proposal Name	Company Name	Location	Proposal Type
1	IA/RJ/THE/4 04292/2022	13012/15/20	2x660 MW Expansion Thermal Power Project, U#7&8 Chhabra TPS	RAJASTHAN RAJYA VIDHYUT UTPADAN NIGAM LTD	Tehsil: District: Baran State: Rajasthan	TOR
2		J- 13012/06/20 09 IA.II(T)	Korba Super Thermal Power Station Stage III	NTPC Limited	Tehsil: Katghora District: Korba State: Chhattisgarh	Amendment EC

Any Other Item with Permission of Chairman:

S.N		File No.	Proposal Name	Company	Location	Remarks
0	No.			Name		

List of EAC Member :

S.No	Members Name	Designation	Email_ID
1	Shri Gururaj P. Kundargi	Chairman	gpkundargi@gmail.com
2	Dr. Narmada Prasad Shukla	Member	shuklanp55@gmail.com
3	Dr. Nandini.N	Member	sai.nandinin@gmail.com
4	Shri K. B. Biswas	Member	biswaskiriti@gmail.com
5	Shri Suramya Dolarray Vora	Member	suramya.vora@gmail.com
6	Dr. Umesh Jagannathrao Kahalekar	Member	ukahalekar@rediffmail.com
7	Dr. Santoshkumar Hampannavar	Member	santoshkumar777@yahoo.com
8	Dr. Unmesh Patnaik	Member	unmesh.patnaik@tiss.edu
9	Shri Mahi Pal Singh	Member - Representative of Central Electricity Authority (CEA)	mpsingh.cea@nic.in
10	Dr. Nazimuddin	Member - Representative of CPCB	nazim.cpcb@nic.in
11	Dr. R. K. Giri	Member - Representative of IMD	rk.giriccs@gmail.com
12	Professor Sheo Shanker Rai	Member - Representative of Indian School of Mines	sheoshankar@iitism.ac.in
13	Shri Yogendra Pal Singh	Member Secretary	yogendra78@nic.in

AGENDA FOR 42ND MEETING OF THE RE-CONSTITUTED EXPERT APPRAISAL COMMITTEE (EAC) (THERMAL POWER PROJECTS) TO BE HELD ON 01ST JUNE, 2023 DURING 03:30 PM – 05:30 PM THROUGH VIDEO CONFERENCE.

Instructions to Project Proponents:

- 1. The EAC meeting will be held through Video-Conference.
- 2. Project Proponents shall send the following through e-mail to all members immediately by 30th May, 2023. E-mails of all members are given at page No. 5:
- a) Duly filled in Agenda Form given at page No. 4.
- b) Basic Information in the Formats given at page Nos. 6-21.
- c) Executive Summary
- d) **.kml** shape file showing boundaries of project facilities (plant, ash dyke, rail/transmission lines, intake water point, water pipelines, etc.)
- e) Presentation (.pdf to all members, PPT format to EAC Secretariat officials (Shri Yogendra Pal Singh, Scientist 'E' & Member Secretary (<u>yogendra78@nic.in</u>)/ Dr. Saurabh Upadhyay, Scientist 'C' (<u>saurabh.upadhyay85@gov.in</u>)/ ia1.thermal@gmail.com.
- f) Duly filled in Undertaking at pg.22
- g) Copy of Valid NABET-QCI Certificate of Consultants
- 3. The proposals listed in the agenda are given below. Those proponents whose details are received as per the Sl.No.2 will only be taken up for Video-conference and to be followed strictly as the time slot given is very less.
- 4. Details of project proponents and number of online access points required are to be sent in advance. Only two persons from Proponent side shall communicate to Ministry Officials (Shri Yogendra Pal Singh, Scientist 'E' & Member Secretary/ Dr. Saurabh Upadhyay, Scientist 'C') for connecting through video conference as per their time slot.
- 5. Only 3-4 access points (number of devices, computer/laptop/mobile) will be permitted for one proposal/proponent which include consultants. Only one project proponent will be connected to EAC as per their slot. Remaining proponents have to wait for their time slot for joining VC meeting.
- After receiving the information from proponent, a link will be sent to selective people for installing a software for video-conference. All proponents can join the conference between 03:00PM - 03:15PM on 01.06.2023 for testing purpose. However, the actual meeting will commence at 03:30PM.
- 7. Project Proponent shall present salient points of the proposal. Only one person should speak at a time and keep the audio switched off during conference. Remaining shall keep their audio on 'mute' mode.

8. Time slot is given for discussion on project proposal. Accordingly, Project Proponents shall be ready for online connection at least 10 min before their given slot. It is endeavored to complete all projects within the stipulated time given by NIC. Accordingly, Project Proponents are required to cooperate and maintain timings. If any problem faced please contact **Mr. Kamal, Moderator, NIC (Mobile No. 8800225087, Email- support-ipb@nic.in)**.

AGENDA OF 42^{ND} MEETING OF THE EXPERT APPRAISAL COMMITTEE ON THERMAL POWER PROJECTS

DATE	:	01 st JUNE, 2023
TIME	:	03:30PM - 05:30PM
MODE	:	VIDEO-CONFERENCE

Agenda Item No. 42.1	Confirmation of the minutes of 41st EAC meeting.
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Consideration of Proposals

Agenda Item No. 42.2	Expansion of Chhabra Thermal Power Project of capacity 2x660 MW (Unit 7&8, Stage- III) located at near Chhabra town, District Baran, Rajasthan M/s Rajasthan Rajya Vidhyut Utpadan Nigam Ltd – Reconsideration for Terms
03:30 PM to	of Reference – reg.
04:30 PM	[Proposal No. IA/RJ/THE/404292/2022; F. No. J-13012/15/2009-IA.II(T)]
Agenda Item No. 42.3	Korba Super Thermal Power Project, (1x500 MW) Stage III Coal Based, located at Village Jamnipali, Tehsil Katghora, District Korba, Chhattisgarh by M/s NTPC Ltd - Reconsideration for Amendment in Environmental Clearance
04:30 PM to 05:30 PM	- reg. [Proposal No. IA/CG/THE/266455/2022; F. No. J-13012/06/2009 IA.II(T)]
Agenda Item No. 42.4	Any other items with the permission of the Chair
05:30 PM onwards	

Agenda Form

Agenda N	o: Project Proponer	Project Proponent Organisation:		
	Consultant Orga	Consultant Organisation:		
	Subject:			
Attendan	nce Sheet:			
Sl.No. N	Jame	E-mail & Phone Number	Whether Video Conference' access is required or not. (Yes/No)	
	Project Proponent: Name and Phone no. of Coordinator for video-conference:			
1				
2				
3				
4				
Consulta	Consultants:			
5				
6				

List & Correspondence addresses of Members of EAC (Thermal Power)

S. No.	Name & Address	Role	E-mail
1.	Shri Gururaj P. Kundargi	Chairman	gpkundargi@gmail.com
2.	Shri Suramya Dolarray Vora, IFS (Retd.)	Member	suramya.vora@gmail.com
3.	Dr. Narmada Prasad Shukla	Member	shuklanp55@gmail.com
4.	Dr. Santosh Kumar Hampannavar	Member	santoshkumar777@yahoo.com
5.	Dr. Umesh Jagannathrao Kahalekar	Member	ukahalekar@rediffmail.com
6.	Shri K. B. Biswas	Member	<u>biswaskiriti@gmail.com</u>
7.	Dr. Nandini N	Member	sai.nandinin@gmail.com
8.	Dr. Unmesh Patnaik	Member	unmesh.patnaik@tiss.edu
9.	Dr. Nazimuddin/ Dr. S. K. Paliwal Representative of Central Pollution Control Board	Member	<u>Nazim.cpcb@nic.in/sanjeevpaliwal</u> .cpcb@nic.in
10.	Shri Mahi Pal Singh, Representative of CEA	Member	mpsingh.cea@nic.in
11.	Professor S S Rai, Representative of IIT/ISM Dhanbad	Member	<u>sheoshankar@iitism.ac.in</u>
12.	Prof R.K. Giri	Member	rk.giriccs@gmail.com
	Representative of IMD		
13.	Shri Yogendra Pal Singh Scientist 'E'	Member Secretary	<u>yogendra78@nic.in</u>

Details for EC/ToR/Extension of EC/ Amendment of EC Proposal

(To be submitted in word format):

1. EAC Meeting Details:

EAC meeting/s	
Date of Meeting/s	
Date of earlier EAC meetings	

2. Project details:

Name of the Proposal	
Proposal No.	
Location	
Company's Name	
Accredited Consultant and certificate	
no.	
Inter- state issue involved	
Seismic zone	

3. Category details:

Category of the project	
Capacity	
Attracts the General Conditions (Yes/No)	
Additional information (if any)	

4. **Project Details:**

If expansion, the details of ECs (including amendments and extension of validity) of existing Units etc.	
Amendments granted, if Yes details	
Expansion / Green Field (new):	
(IPP / Merchant / Captive):	

If expansion, the date of latest monitoring done by the Regional Office (R.O) of MoEF&CC for compliance of the conditions stipulated in the environmental and CRZ clearances of the previous phases. A certified copy of the latest R.O. monitoring report shall also be submitted.	
Specific webpage address where all EC related documents (including monitoring and compliance related reports/documents) of the specific project under consideration are/will be available. Also contact details of PP's officer responsible for updating this webpage/information.	
Co-ordinates of all four corners OF TPP Site:	
Average height of:	
(a) TPP site,	
(b) ash pond site etc. above MSL	
Whether the project is in the Critically Polluted Area (CPA) or within 10 km of CPA. If so, the details thereof:	
CRZ Clearance	
Cost of the Project (As per EC and revised):	
Cost of the proposed activity in the amendment:	
Employment Potential for entire project/plant and employment potential for the proposed amendment (specify number of persons and quantitative information).	
Benefits of the project (specify quantitative information)	

5. Electricity generation capacity:

Capacity & Unit Configurations:	
Generation of Electricity Annually	

6. Details of fuel and Ash disposal

Fuel to be used:	
Quantity of Fuel required per Annum:	
Coal Linkage / Coal Block:	
(If Block allotted, status of EC & FC of the Block)	
Details of mode of transportation of coal from coal source to the plant premises along with distances	
Fly Ash Disposal System Proposed	
Ash Pond/ Dyke	
(Area, Location & Co-ordinates)	
Average height of area above MSL (m)	
Quantity of	
a. Fly Ash to be generated	
b. Bottom Ash to be generated:	
Fly Ash utilization (details)	
Stack Height (m) & Type of Flue	

7. Water Requirement:

Source of Water:	
Quantity of water requirement:	
Distance of source of water from Plant:	
Whether barrage/ weir/ intake well/ jack well/ others proposed:	

Mode of conveyance of water:	
Status of water linkage:	
(If source is Sea water) Desalination Plant Capacity	
Mode / Management of Brine:	
Cooling system	

8. Land Area Breakup:

Land Requirement:	
a) TPP Site	
b) Ash Pond	
c) Township	
d) Railway Siding & Others	
e) Raw Water Reservoir	
f) Green Belt	
g) others	
Total (if expansion state additional land requirement)	
Status of Land Acquisition:	
Status of the project:	
If under construction phase: please specify the reasons for delay, works completed till date and balance works along with expected date of completion.	
If under operation phase, date of commissioning (COD) of each unit. Whether the plant was under shutdown since commissioning, details and reasons.	
Break-Up of land-use of TPP site:	

Total land	l required	for	project
component	s		
Private lan	f		
Governmer	it land		
Forest Lan	đ		
	component Private land Governmen	Total land required components Private land Government land Forest Land	Private land Government land

9. Presence of Environmentally Sensitive areas in the study area

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter/Remarks
Reserve Forest/Protected		
Forest Land		
National Park		
Wildlife Sanctuary		
Archaeological sites		
monuments/historical		
temples etc		
Names & distance of National		
parks, Wildlife sanctuaries,		
Biosphere reserves, Heritage		
sites Rivers, Tanks, Reserve		
Forests etc. Located within 10		
Km from the plant boundary:		
Additional information (if		
any)		

Availability of Schedule-I species in study area

10. Court case details:

Any	litigation/	Court	Case
pertai	ining to the p	roject	

Is the proposal under any investigation? If so, details thereof.	
Any violation case pertaining to the project:	
Additional information (if any)	

Date:

(SIGNATURE OF AUTHORISED REPRESENTATIVE)

Place :

NAME & DESIGNATION :

Contact Nos. & E-mail :

Name of the project Addressed detailed E-mail/contact No.

Subject:- Environmental Clearance/ToR- reg.

[Proposal NO.....]

The Project Proponent and the accredited Consultant M/s., made a detailed presentation on the salient features of the project and informed that:

- i. The proposal is for environmental clearance/ToR to the project for located at by M/s.
- iii. All are listed at S.N. of the Schedule to the Environment Impact Assessment (EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).
- iv. Ministry had issued EC earlier vide letter no.; dated to the existing project... in favour of M/s.(in Expansion case/if applicable).
- v. Existing land area is $\dots m^2$, additional $\dots m^2$ land will be used for proposed expansion.
- vi. Industry has already developed / will develop greenbelt in an area of 33 % i.e., m² out of total area of the project.
- vii. The estimated project cost is Rs...... including existing investment of Rs...... crores. Total capital cost earmarked towards environmental pollution control measures is Rs...... and the Recurring cost (operation and maintenance) will be about Rs...... per annum.
- viii. Total Employment will be persons as direct & persons indirect after expansion. Industry proposes to allocate Rs..... @ of % towards CER (as per Ministry's OM dated....).
- ix. There are national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site. River/ water body..... is flowing at a distance ofin......direction.
- x. Ambient air quality monitoring was carried out at locations during to and the baseline data indicates the ranges of concentrations as: PM10 (...-µg/m3), PM2.5 (...-...µg/m3), SO2 (...-...µg/m3) and NO2 (...-...µg/m3). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would beµg/m³,µg/m³ andµg/m³ with respect to PM₁₀, SOx and NOx. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS). (In case of EC Proposal)

- xi. Total water requirement is m3/day of which fresh water requirement ofm3/day will be met from Permission for allocation of water obtained vide letter dated......from......Authority/ Water Board for theKLD/MLD quantity.
- xiii. Power requirement after expansion will be including existing KVA and will be met from State power distribution corporation limited (...SPDCL). Existing unit has DG sets ofcapacity, additionally DG sets are used as standby during power failure. Stack (height......)will be provided as per CPCB norms to the proposed DG sets.
- xiv. Existing unit has TPH fired boiler. Additionally -----TPH ----fired boiler will be installed. Multi cyclone separator/ bag filter with a stack of height of m will be installed for controlling the particulate emissions within the statutory limit of 115 mg/Nm³ for the proposed boilers (Applicable for thermal sector projects).
- xv. Details of Solid waste/ Hazardous waste generation and its management......
- xvi. Public Hearing for the proposed project has been conducted by the State Pollution Control Board onThe main issues raised during the public hearing are related to...........(Applicable for EC proposals)
- xvii. Details of Certified compliance report submitted by RO, MoEF&CC. (In case of expansion Proposal).
- xviii. Status of Litigation Pending against the proposal, if any.
- xix. The silent features of the project are as under:-

Name of the Proposal	
Location	
(Including coordinates)	
Inter- state issue involved	
Seismic zone	
Capacity / Cultural command area	
(CCA)	
Attracts the General Conditions	
(Yes/No)	
Powerhouse Installed Capacity	
Generation of Electricity Annually	

No. of Units	
Cost of project	
Total area of Project	
Details of consultant and status of	
accredition	
Project Benefits	
Status of other statutory clearances	
R&R details	
Any litigation/Court case	
pertaining to the project	
Is the proposal under any investigation?	
If so, details thereof.	
Any violation case	
pertaining to the project:	
Certified EC compliance report (if	
applicable)	
Status of Stage- I FC	
Additional detail (If any)	
Is FRA (2006) done for FC-I	
Advertisement for PH with date	
Date of PH	
Venue	
Chaired by	
Main issues raised during PH	
No. of people attended	
Fuel to be used:	
Quantity of Fuel required per Annum:	
Coal Linkage / Coal Block:	

(If Block allotted, status of EC & FC of	
the Block)	
Details of mode of transportation of coal	
from coal source to the plant premises	
along with distances	
Fly Ash Disposal System Proposed	
Ash Pond/ Dyke	
(Area, Location & Co-ordinates)	
Average height of area above MSL (m)	
Quantity of	
a Fly Ash to be generated	
c. Fly Ash to be generated	
d. Bottom Ash to be generated:	
Fly Ash utilization (details)	
Stack Height (m) & Type of Flue	
Stack neight (iii) & Type of Flue	

Name of	Expansion / Green Field (new):		
Project	(IPP / Merchant / Captive):		
Project	If expansion, the details of ECs (including amendments and extension of validity) of existing Units etc. If expansion, whether the application is under 7(ii) of the EIA Notification, 2006. If expansion, the date of latest monitoring done by the Regional Office (R.O) of MoEF&CC for compliance of the conditions stipulated in the environmental and CRZ clearances of the previous phases. A certified copy of the latest R.O. monitoring report shall also be submitted. Specific webpage address where all EC related documents (including monitoring and compliance related reports/documents) of the specific project under consideration are/will be available. Also contact details of PP's officer		
	responsible for updating this webpage/information.		

Name of Project Proponent	M/s				
Name of Consultan t(s) who prepared the EIA/EMP					
S1. No.	Salient Features				
1.	Date of the ToR, extension of validity and amendment, if any.				
2.	Date & place of Public Hearing				
3.	Issues raised during Public Hearing and assurance given along with the financial provisions, if any, by the project proponent.	tabular form.)			
4.	If the proposal is for re- consideration, the dates of the earlier EAC meeting (s) and the information/documents sought.				
5.	Location of TPP Village : Taluk : District : State : Co-ordinates of all four	a) TPP site; b) Ash pond site; c) township etc.			
	corners: Average height of (a) TPP site, (b) ash pond site etc above MSL (m)				

6.	Whether the project is in the Critically Polluted Area (CPA) or within 10 km of CPA. If so, the details thereof:	
7.	Capacity & Unit Configurations:	MW
8.	Land requirement: a) TPP site b) Ash Pond c) Township d) MGR etc. (if expansion state additional land requirement)	Acres / Hectares
9.	Status of Land acquisition:	
10.	Status of the project: If under construction phase: please specify the reasons for delay, works completed till date and balance works along with expected date of completion. If under operation phase, date of commissioning (COD) of each unit. Whether the plant was under shutdown since commissioning, details and reasons.	
11.	Break-Up of Land-Use of TPP site:	(Acres / Hectares) Forests land (Type and density) : Double Crop agricultural land : Single crop agricultural land : Waste/Barren land : Grazing/Community land : Others (specify) :

		(Status of land allotment/acquisition)		
12.	Fuel to be used:	Coal/Lignite / Gas / Other (Specify)		
13.	Quantity of Fuel Required per Annum:	MTPA / MMSCMD (Million Tonne Per Annum)		
14.	Coal Linkage / Coal Block: (<i>If Block allotted, status of</i> <i>EC & FC of the Block</i>)	Quantity and details of Linkage available: Name of Block		
		The method of obtaining remaining coal: (LOA issued on) Ash content in coal(%) Sulphur in coal(%) Moisture(%) GCV in coalKcal/Kg		
15.	Details of mode of transportation of coal from coal source to the plant premises along with distances.	Total distance from the source toRail:km (from To)Road: km (from To)		
16.	Fly Ash Disposal System proposed:	High / Medium / Lean concentration slurry.		
17.	Ash Pond / Dyke: (Area, Location & Co- ordinates) Average height of area above MSL (m)	pond)		
18.	Quantity of Fly Ash to be Generated:	МТРА		
19.	Quantity of Bottom Ash to be Generated:	MTPA		
20.	Fly Ash utilisation percentage with details :			
21.	Stack Height (m)	(m) (new or existing)		

	& Type of Flue	Single/Bi/Tri Flue	
22.	Source of Water:	Sea / River / Barrage (Name) (Downstream / Upstream) (HFL of nearest river if located within 10 kms study area)	
23.	Quantity of water requirement:	MLD / MCM	
24.	Distance of source of water from Plant:	Km / m (from intake point)	
25.	Whether barrage/ weir/ intake well/ jack well/ others proposed:	Yes / No (If yes, give details)	
26.	Mode of conveyance of water:	Pipeline / canal / others	
27.	Status of water linkage:	(Date of allocation obtained)	
28.	(If source is Sea water) Desalination Plant Capacity		
29.	Mode / Management of Brine:	f Details	
30.	Cooling system	Induced/ Natural draft	
31.	CRZ Clearance	(Status)	
32.	Names & distance of National parks, Wildlife sanctuaries, Biosphere reserves, Heritage sites Rivers, Tanks, Reserve Forests etc. Located within 10 Km from the plant boundary:		
33.	Any litigation/Court case pertaining to the project:	please provide a list with details and status as annexure	

20	T (1 1 1		
32.	Is the proposal under any		
	investigation? If so, details		
	thereof.		
33.	Any violation case	please provide a list with details	
	pertaining to the project:	and status as annexure	
34.	Cost of the Project (As per	Rs (Crores)	
	EC and revised):		
	Cost of the proposed		
	activity in the amendment:		
35.	Employment Potential for		
	entire project/plant and		
	employment potential for		
	the proposed amendment		
	(specify number of persons		
	and quantitative		
	information).		
36.	Benefits of the project		
	(specify quantitative		
	information)		
	,		
37.	Any other declaration		
	<u> </u>		
	1	1	
Certified that the above information is true to the best of my knowledge and			
belief.			

Format for brief summary for EC/ToR Amendment

The proposal is for amendment in the **Terms of Reference/Environmental Clearance** granted by the Ministry vide letter dated.....for the project located favour M/s at in of

2. The project proponent has requested for amendment in the ToR/EC with the details are as under;

S. No.	Para of ToR/EC issued by MoEF&CC	Details as per the ToR/EC	To be revised/ read as	Justification/ reasons

Undertaking

This is to certify that the information provided in Form-.... in physical form and/or in .pdf format (as applicable to the project and remaining be removed) in PARIVESH, to the Ministry/EAC members and PPT presentation during the EAC meeting held on 01.06.2023 have no deviation in respect of the proposal of ToR/EC/EC validity extension/EC amendment for establishing "......MW Thermal Power Project at village, Taluk, District......, State......by M/s.

2. It is further certified that there are no data entry errors in the information uploaded in PARIVESH system including names/email-id/mobile numbers/address of the project proponent, authorized person, etc. It is also certified that the supporting documents uploaded on PARIVESH portal are correct and duly authenticated by the Authorized Signatory.

3. In case of any deviation in data found in any of the documents, the Authorized Signatory shall be held responsible and furthermore, the above said project shall be rejected for grant of amendment in EC.

Authorized Signature Date