

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



#### **Agenda of Expert Appraisal Committee**

**Meeting ID** : IA/THE/13545/16/08/2023

Meeting Venue : MoEF&CC

**Meeting Type** : Video Conference

Agenda Generation Date : 15-08-2023

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	Time (From)	Time (To)	
1	16 Aug 2023	10:30 AM	13:30 PM	

Date of Meeting: 16-08-2023

S.No	Proposal No.	File No.	Proposal Name	Company Name	Location	Proposal Type
1	IA/TR/THE/1 25111/2019		Rokhia Sepaĥijalá,	TRIPURA STATE ELECTRICITY CORPORATIO N LIMITED	Tehsil: Melaghar District: Sepahijala State: Tripura	EC
2	IA/MP/THE/ 410823/202 2	J- 13012/12/20 19-IA. II(T)	Project (Expansion, Phase -V, Unit no. 12) at Sarni,	PRADESH POWER GENERATING CO. LIMITED	Tehsil: District: State: Madhya Pradesh	EC

#### Any Other Item with Permission of Chairman:

		File No.	Proposal Name	Company	Location	Remarks
0	No.			Name		ļ

#### **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 45<sup>TH</sup> MEETING OF THE RE-CONSTITUTED EXPERT APPRAISAL COMMITTEE (EAC) (THERMAL POWER PROJECTS) TO BE HELD ON 16<sup>TH</sup> AUGUST, 2023 DURING 10:30AM – 01:30 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 14th August, 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 (yogendra78@nic.in)/Dr. Saurabh Upadhyay, Scientist 'C' (saurabh.upadhyay85@gov.in)/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.
- 6. 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 10:00AM 10:15AM on 16.08.2023 for testing purpose. However, the actual meeting will commence at 10:30 AM.

- 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- <a href="mailto:support-ipb@nic.in">support-ipb@nic.in</a>).

# AGENDA OF $45^{\text{TH}}$ MEETING OF THE EXPERT APPRAISAL COMMITTEE ON THERMAL POWER PROJECTS

DATE : 16<sup>TH</sup> AUGUST, 2023 TIME : 10:30AM - 01:30PM MODE : VIDEO-CONFERENCE

Agenda Item No. 45.1	Confirmation of the minutes of 44th EAC meeting.
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## **Consideration of Proposals**

	Expansion of Raigarh Thermal Power Plant Coal Based by adding 1600 (2x800)
Agenda Item	MW Ultra Super Critical Technology to existing 600 (1x600) MW at villages
No. 45.2	Chhote Bhandar, Bade Bhandar, Sarvani, & Amli Bhanuna, Tehsil Pussore,
	District Raigarh, Chhattisgarh by M/s Adani Power Limited Terms of
10:30 AM to	References (TOR) – reg.
11:30 AM	
	[Proposal No. IA/CG/THE/438173/2023; F. No. J-13012/57/2008.IA.II (T)]
Aganda Itam	Regularisation of 3 × 21 = 63 MW Gas-based Thermal Power Station in an area
Agenda Item No. 45.3	of 55.89ha at Rokhia in village Manikyanagar, Boxanagar PS, District
No. 45.5	Sepahijala, Tripura by M/s Tripura State Electricity Corporation Limited -
11:30 AM to	Reconsideration for Environmental Clearance – reg.
12:30 PM	
12.00 1 W	[Proposal No. IA/TR/THE/125111/2019; F. No. J-13012/13/2019-IA.I(T)]
Agenda Item	Expansion of Satpura Super-Critical Thermal Power Project by installing unit
No. 45.4	of capacity 1x660 MW at Sarni, Village Brahmanwada Ryt, Tehsil
110. 45.4	Ghoradongri, District Betul, (Madhya Pradesh) by M/s Madhya Pradesh Power
12:30 AM to	Generating Co. Ltd Reconsideration for Environmental Clearance - reg.
01:30 PM	
	[Proposal No. IA/MP/THE/410823/2022; F. No. J-13012/12/2019-IA. II(T)]
Agenda Item	
No. 45.5	Any other items with the permission of the Chair
01:30 PM	
onwards	

## Agenda Form

Agenda No:		Project Proponent Organisation:				
		Consultant Organisation:				
		Subject:				
Attend	ance	Sheet:				
Sl.No.	Sl.No. Name		E-mail & Phone Number	Whether 'Video Conference' access is required or not. (Yes/No)		
Project	Prop	onent:				
Name a	and P	hone no. of Coord	inator for video-conferen	ce:		
1						
2						
3						
4						
Consul	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	biswaskiriti@gmail.com
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	Nazim.cpcb@nic.in/sanjeevpaliwal.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	sheoshankar@iitism.ac.in
12.	Prof R.K. Giri Representative of IMD	Member	rk.giriccs@gmail.com
13.	Shri Yogendra Pal Singh Scientist 'E'	Member Secretary	yogendra78@nic.in

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

# (To be submitted in word format):

1.	EAC	Meeting	<b>Details:</b>
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	EAC meeting/s	
	Date of Meeting/s	
	Date of earlier EAC meetings	
	1	
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	
ļ	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)	

	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 coal source to the plant premises along 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:		

Electricity generation capacity:

5.

	Mode of conveyance of water:	
	Status of water linkage:	
	(If source is Sea water) Desalination Plant	
	Capacity	
	Mode / Management of Brine:	
	Cooling system	
		1
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.

Break-Up of land-use of TPP site:

If under operation phase, date of commissioning (COD) of each unit. Whether the plant was under shutdown since commissioning, details and reasons.

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/No	Details Certificate/letter/Remark
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)		

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.

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Subjec	t:ToR- reg.
[Propo	sal NO]
	e Project Proponent and the accredited Consultant M/s, made a detailed tation on the salient features of the project and informed that:  The proposal is for environmental clearance/ToR to the project for located at by M/s.
ii.	The project proposal was considered by the Expert Appraisal Committee (Thermal/Hydro River Valley Sector) in its <sup>th</sup> meeting held during
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 $m^2$ land will be used for proposed expansion.
vi.	Industry has already developed / will develop greenbelt in an area of 33 $\%$ i.e., $m^2$ 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 ofindirection.
х.	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,

	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 datedfromAuthority/ Water Board for theKLD/MLD quantity.		
xii.	Effluent of quantity will be treated through		
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. AdditionallyTPHfired 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 pr	roposal, if any.	
xix.	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)			

SOx and NOx. The resultant concentrations are within the National Ambient Air Quality

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	
<ul><li>c. Fly Ash to be generated</li><li>d. Bottom Ash to be generated:</li></ul>	
Fly Ash utilization (details)	
Stack Height (m) & Type of Flue	

Name	of	Expansion / Green Field (new):	
Project		(IPP / Merchant / Captive):	
		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	

	T		
	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	ı   ´		
Sl. 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.	(Please attach as an annexure in a tabular form.)	
4.	If the proposal is for reconsideration, the dates of the earlier EAC meeting (s) and the information/documents sought.		
5.	Location of TPP Village : Taluk :		

	District	
	District: State:	<ul><li>a) TPP site; b) Ash pond site;</li><li>c) township etc.</li></ul>
	Co-ordinates of all four 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	
11.	reasons.  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 / Others (Specify)
13.	Quantity of Fuel Required per Annum:	MTPA / MMSCMD (Million Tonne Per Annum)
14.	Coal Linkage / Coal Block: (If Block allotted, status of EC & FC of the Block)	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 coal(%)
15.		Total distance from the source to Rail:km (from To) Road: km (from To)
16.	Fly Ash Disposal System proposed:	High / Medium / Lean concentration slurry.
17.	Ash Pond / Dyke: (Area, Location & Coordinates) Average height of area above MSL (m)	(If expansion project state additional area required for ash pond)
18.	Quantity of Fly Ash to be Generated:	MTPA

19.	Quantity of Bottom Ash to be Generated:	MTPA				
20.	Fly Ash utilisation percentage with details :					
21.	Stack Height (m) & Type of Flue	(m) (new or existing) 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:	Details				
30.	Cooling system	Induced/ Natural draft				
31.	CRZ Clearance	(Status)				
32.	Names & distance of National parks, Wildlife sanctuaries, Biosphere reserves, Heritage sites					

33.	Rivers, Tanks, Reserve Forests etc. Located within 10 Km from the plant boundary:  Any litigation/Court case	please provide a list with details
	pertaining to the project:	and status as annexure
32.	Is the proposal under any investigation? If so, details thereof.	
33.	Any violation case pertaining to the project:	please provide a list with details and status as annexure
34.	Cost of the Project (As per EC and revised): Cost of the proposed activity in the amendment:	Rs (Crores)
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	

Certified that the above information is true to the best of my knowledge and belief.

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# Format for brief summary for EC/ToR Amendment

The	proposa	l is f	for	amendment	in the	<u>Terms</u>	of F	<u>Reference/</u>	<b>Enviro</b>	<u>nmental</u>	Clea	<u>arance</u>
gran	ted by	y t	he	Ministry	vide	letter	da	ted		.for the	e j	project
		•••••	••••		loo	cated	at		in	favour	of	M/s
		•••••	• • • • •									

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

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#### **Undertaking**

- 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