सत्यमेव जयते

File No.: J-13012/50/2010 - lA. II (T)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division
****

Dated **07/08/2026**

To,

Sh. Rajesh Malik
M/s. NTPC Limited
NTPC Limited, NTPC Bhawan, SCOPE Complex, Institutional Area, Lodhi Road, New Delhi – 110003
E-mail: environment.ntpc@gmail.com

Subject: **1550 MW (Stage-I to IV) Feroz Gandhi Unchahar Thermal Power Station by M/s. NTPC Limited located at Babhanpur & Niranjanpur Villages Unchahar Tehsil, Raebareli District, in Uttar Pradesh– Amendment in Environment Clearance – regarding**

Sir/Madam,

This is with reference to your online application vide proposal No. IA/UP/THE/582576/2026 dated 18.06.2026 along with written submission dated 21/07/2026 seeking for amendment in Environment Clearance accorded by the Ministry vide letter dated 27/05/1985 for Stage II, 15/03/2004 for Stage III and 10/05/2013 for Stage IV and its subsequent amendments dated 26/08/2019, 21/10/2020 and 25/01/2022 under the provisions of the EIA Notification, 2006, for the project mentioned above

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC26A0601UP5589387A
(ii) File No.	J-13012/50/2010 - lA. II (T)
(iii) Clearance Type	Amendment in EC
(iv) Category	A
(v) Schedule No./ Project Activity	1(d) Thermal Power Plants
(vi) Sector	Thermal Projects
(vii) Name of Project	1550 MW (Stage-I to IV) Feroz Gandhi Unchahar Thermal Power Station by M/s. NTPC Limited located
(viii) Location of Project (District, State)	Raebareli, Uttar Pradesh
(ix) Issuing Authority	MoEF&CC
(x) EC Date	10/05/2013
(xi) Applicability of General Conditions	YES

(xii) Status of implementation of the project Implemented

3. M/s. NTPC Limited has made online application vide proposal no. IA/UP/THE/582576/2026 dated 18.06.2026 along with Form-4 seeking for amendment in the Environment Clearances under the provisions of the EIA Notification, 2006 accorded by the Ministry for the project mentioned above.

4. The instant proposal was considered by the EAC in its 47th meeting held on 10th July 2026. The MoM for the same may be seen using the following web link: https://parivesh.nic.in.

Details submitted by the project proponent

5. The existing project of 1550 MW (Stages I-IV) Feroz Gandhi Unchahar Thermal Power Station in Babhanpur & Niranjanpur Villages Unchahar Tehsil, Raebareli District, in Uttar Pradesh by M/s. National Thermal Power Corporation (NTPC) Limited was accorded following ECs by the Ministry:-

Description	Units & Capacity	EC accorded to	EC Reference	Remarks
Stage-IV	1x500 MW	NTPC	J-13012/50/2010-IA.II (T), dated 10.05.2013	NTPC installed Stage-IV units in 2017
Stage-III	1x210 MW	NTPC	J-13011/13/ 2002/IA-II (T), dated 15.03.2004	NTPC installed Stage-III units in 2007
Stage - II	2x210 MW	UPRVUNL*	25/38/84-EN-2, dated-27.05.1985	NTPC took over the FGUTPS in 1992. NTPC installed Stage-II units in 1999
Stage - I	2x210 MW	UPRVUNL	No EC obtained	UPRVUNL installed Stage-I in 1989 reportedly based on the consent of UPPCB.

* ***Note***: *Application for transfer of EC dated 27/05/1985 from UPRVUNL to NTPC has been submitted vide proposal no IA/UP/THE/470370/2026 dated 10/01/2026. As per the EDS of MoEF&CC, EC transfer will be processed only after amendment in the ECs accorded for the project regarding involvement of 4.93 Ha of forest land which was not recorded.*

Note 2: EC dated 10/05/2013 was amended on **26/08/2019, 21/10/2020 and 25/01/2022**

6. **Implementation status**: The implementation status of the existing ECs is as follows:

S. No	Products	As on date	As per CTO dated	Balance Quantity
1	Electricity	1550 MW Stage I- 2x210 MW Stage II- 2x210 MW StageIII-1x210 MW StageIV-1x500 MW	1550 MW Stage I- 11.02.2026 Stage II- 15.12.2025 Stage III-15.12.2025 Stage IV-30.11.2024	Nil

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

EC Reference	Descri -ption Head	Description in EC	Amendment Proposed	Justification for Amendment
EC Stage-II, Ref. No.:25/38/84-EN.- 2 dated-27.05.1985	Project land descry -ption	No mention of land description	The total land requirement for 1550MW (Stage I-IV) Firoz Gandhi Thermal Feroz Gandhi Unchahar Thermal Power Station in Unchahar Tehsil, Raebareli District, in Uttar Pradesh by M/s. NTPC Limited is	1. The total land and land use breakup not mentioned in the ECs of Stage-II & III of FGUTTP. Whereas, a total land of 891.52 Ha
EC Stage-III,				

<table>
<tr><th>EC Reference</th><th>Descri -ption Head</th><th>Description in EC</th><th>Amendment Proposed</th><th>Justification for Amendment</th></tr>
<tr><td>Ref. No.: J-13011/13/ 2002/IA-II (T) dated 15.03.2004</td><td></td><td></td><td>891.52 ha including 4.93 Ha of forest land .
Land use breakup of FGUTPS shall be read as below: -
<table>
<tr><th>Description of land</th><th>Land area (Ha)</th></tr>
<tr><td>Main plant (Common for Stages-I, II, III & IV)</td><td>237.79</td></tr>
<tr><td>Ash Dyke (Common for all Stages)</td><td>155.00</td></tr>
<tr><td>Ash Pipeline Corridor (Common for all Stages)</td><td>20.40</td></tr>
<tr><td>Township (Common for all Stages)</td><td>61.27</td></tr>
<tr><td>Solar Plant (Ground mounted solar installation at main plant, township & other land)</td><td>24.54</td></tr>
<tr><td>Other Land (Outside plant boundary for Roads, Drains, Rly. Corridor)</td><td>60.00</td></tr>
<tr><td>Other Land (For future use)</td><td>45.00</td></tr>
<tr><td>Greenbelt (Existing)</td><td>129.08</td></tr>
<tr><td>Greenbelt (Proposed)</td><td>158.45</td></tr>
<tr><td>Total land (Ha)</td><td>891.52</td></tr>
</table>
Forest land of about 4.93 Ha is involved under the ash dyke area at Umran, for which forest clearance is available vide letter dated 04.03.1997.</td><td>(i.e. 2203 Acre) is only mentioned in Stage-IV, EC.
2. ECs of FGUTPS, Stage-I & II were accorded to Uttar Pradesh Rajya Vidyut Utpadan Nigam Limited (UPRVUNL). Stage-I units (2x210 MW) were installed by UPRVUNL. Later NTPC limited took over the FGUTPS in 1992 and installed Stage-II units (2x210 MW) in 1999, Stage-III (1x210 MW) in 2007 and Stage-IV (1x500 MW) in 2017.
3. Forest land of 4.93 Ha at the ash dyke land at Umran was already in possession of FGUTPS and Forest Clearance was also available vide letter dated 04.03.1997. However, forest land was inadvertently left out at the time of obtaining Environmental Clearance of Stage-III & IV. Forest Clearance letter enclosed in application form
Therefore, the amendment is requested to incorporate the land use detail and forest land in the EC of FGUTPS.</td></tr>
<tr><td>EC Stage-IV, Ref. No.: J-13012/50/ 2010/IA-II (T) dated 10.05.2013</td><td></td><td>The total existing capacity of the power plant is 1050 MW, consisting of Stage- I (2x210 MW); Stage-II (2x210 MW) & Stage-III (1x210 MW). No additional land is required for the expansion by addition of Stage-IV (1x500 MW). The same will be accommodated within available land, which is about 2203 acres.</td><td></td><td></td></tr>
<tr><td>EC Stage-III, Ref. No.: J-13011/13/ 2002/IA-II (T) dated 15.03.2004</td><td>ii</td><td>300 acres of additional land for ash disposal for stage-III (250 acres for ash dyke and 50 acres for laying the pipeline from the plant to the ash disposal area) will be acquired.</td><td>Existing ash dykes at Arkha and Umran will be utilized for ash disposal of all Stages, and no additional land will be acquired for ash dyke and laying pipeline for Stage-III.</td><td>To conserve the land and maximize ash utilization, FGUTPS has not acquired additional 300 acres land for the construction of new ash dyke for Stage-III which was permitted by MoEF&CC.
• As the FGUTPS is</td></tr>
</table>

EC Reference	Descri -ption Head	Description in EC	Amendment Proposed	Justification for Amendment
				utilizing 100% ash, the existing ash dyke volume for Stage-I&II, after proposed greenbelt development, will be adequate for temporary storage of unutilized ash for all the Stages. •Ash Utilization details under the Annual Compliance Report (ACR) of ash utilization for all the stages for FY 2025-26 submitted under Brief description. Existing & Proposed Ash dyke details submitted under Brief description. Residual life calculation with proposed ash dyke and ash utilization submitted under Brief description Ash dyke Stability Report by expert institute (IIT-Roorkee) submitted in application form
EC Stage-III, Ref. No.: J-13011/13/ 2002/IA-II (T) dated 15.03.2004	iii	The likely number of displaced persons reported as 229. However, a detailed socio-economic survey should be carried out to identify the exact number of persons and reported to the Ministry and State Government within one year. The Rehabilitation and Resettlement of all displaced persons shall be as per State Government's regulations.	No land acquisition and no displacement of people is envisaged. Thus, no fresh R&R activities are required.	No additional land was acquired for ash dyke and laying pipeline for Stage-III. Therefore, no displacement of persons and no R&R is involved. However, Rehabilitation and Resettlement activities involved under the previous stages have been completed.
EC Stage-II, Ref. No.:25/38/84-EN.- 2 dated-27.05.1985	10	A green belt should be raised all around the power plant to trap the dust particles.	Project proponent will develop Greenbelt in 158.45 Ha in addition to existing 129.08 Ha. Ultimately, total 287.53 Ha land will be taken up under Greenbelt development as 33% of the total land area of 866.98 Ha (excluding the land used for	Single consolidated condition is proposed in place of multiple conditions wrt greenbelt development given in different ECs. Revised plant layout as
EC Stage-III, Ref. No.: J-	xiv	Greenbelt should be developed in		

<table>
<tr><th>EC Reference</th><th>Descri -ption Head</th><th>Description in EC</th><th>Amendment Proposed</th><th>Justification for Amendment</th></tr>
<tr><td>13011/13/ 2002/IA-II (T) dated 15.03.2004</td><td></td><td>about 30 acres around the ash dyke area and available space in the township. Tree density of 1500-2000 trees per ha should be maintained.</td><td rowspan="2">solar plant to harness renewable energy) as under: -<table><tr><th>S. No</th><th>Description of land</th><th>Land area (Ha)</th></tr><tr><td>1</td><td>Total Land</td><td>891.52 (A)</td></tr><tr><td>2</td><td>Land Used for Solar Plant</td><td>24.54 (B)</td></tr><tr><td>3</td><td>Total Land for Greenbelt Calculation</td><td>866.98 (A-B)</td></tr><tr><td>4</td><td>Greenbelt land</td><td>287.53 (C)</td></tr><tr><td>5</td><td>% Greenbelt C/(A-B)*100</td><td>33.16</td></tr></table></td><td rowspan="2">per the modified land use break up for greenbelt development is enclosed in application form.
Action plan for the proposed Greenbelt development along with physical and financial outlay is attached in application form</td></tr>
<tr><td>EC Stage-IV, Ref. No.: J-13012/50/ 2010/IA-II (T) dated 10.05.2013</td><td>General Condition-xxix</td><td>Green Belt consisting of 3 tiers of plantations of native species around plant not less than 100 m width shall be raised (except in areas not feasible). The density of trees shall not less than 2500 per ha with survival rate not less than 80 %.</td></tr>
</table>

Adequacy of the Existing Ash dykes for 1550 MW

The existing ash dykes of Feroze Gandhi Unchahar Thermal Power Station are located in 331.16 Ha area at Arkha and Umran villages. The ash dykes has three lagoons namely Arakha L1, Arakha L2 & Umran L1. Ash dyke land use area will be reduced to 155 Ha progressively for increase in greenbelt development

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

Year	Coal Consumption	Ash Generation	Dry Fly Ash Generation	Dry Fly Ash Utilization (DFA)	Ash Sent to Ash Pond	Pond Ash Utilization (PA)	Balance in Ash Pond	Total Ash Utilization (DFA +PA)	
	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(%)
2021-22	5527776	2084804	1667843	911325	1173479	2407506	-1234027	3318831	159.19
2022-23	5718639	2019459	1615567	915879	1103580	1170252	-66672	2086131	103.30
2023-24	5619799	2093304	1674643	908914	1184390	1984713	-800323	2893627	138.23
2024-25	6983988	2752719	2202175	1136662	1616057	1648558	-32501	2785220	101.18
2025-26	6483667	2640607	2112486	1364958	1275649	1549331	-273682	2914289	110.36

Dried ash is excavated from the ash dyke and utilised in various ash utilisation avenues like road projects, ash bricks/tile units etc. Thus, 100% ash is being utilised.

Presently, 47.97 Lakhs metric tons ash from 1550 MW units of FGUTPS is stored in the 331.16 Ha existing ash dyke. The dyke area will be reduced progressively and converted to greenbelt. The ultimate dyke area will be 155 Ha (for storage of ash). The FGUTPS plans to excavate and continue utilizing the ash from the dyke which will ensure the volume availability in the dyke for at least 19.7 yrs for the 1550 MW TPP with 155 Ha ash dyke area. (At 90% ash utilization)

Details of existing ash dyke regarding volume availability

S.N.	Details of Ash Pond	Arkha Lagoon 1	Arkha Lagoon 2	Umran Lagoon-1
1.	Status of ash pond (Active/Exhausted, yet to be reclaimed/ Reclaimed)	Active	Active	Active
2.	Area (Ha)	95 ha	30 ha	30 ha
3.	Dyke height (m)	4 m	2 m	10 m
4.	Volume (m^3)	38,00,000 cum	600000 cum	3000000 cum
5.	Quantity of ash disposed (Metric Tons) (As on March 2026)	8.71 LMT	19.73 LMT	19.53 LMT
6.	Available volume in percentage and quantity of ash can be further disposed (Metric Tons)	29.29 LMT	Nil	10.47 LMT
7.	Expected life of ash pond (number of years and months)	19.7 yrs (at 90% ash utilization)		

The bottom ash (around 20% of the total ash generated) from the Power Plant is evacuated in slurry form and stored temporarily at the ash dyke before the same can be dried and utilized. FGUTPS 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, unutilised fly ash sent to ash dyke and stored temporarily at the ash dyke before the same can be dried and utilized. Thus, the company has sufficient volume available in the ash dyke for disposal of ash in the ash dyke.

Action plan for Ash Utilisation @ 70% PLF

FY	Ash Generation (MT) @ 70% PLF	Fly Ash (MT)	Pond Ash (MT)	Total Ash Utilization (MT)	Utilization %
2026-27	2700000	1404000	1377000	2781000	103.00
2027-28	2700000	1620000	1296000	2916000	108.00
2028-29	2700000	1701000	1188000	2889000	107.00
2029-30	2700000	1782000	1161000	2943000	109.00
2030-31	2700000	1836000	1080000	2916000	108.00
2031-32	2700000	1836000	1053000	2889000	107.00
2032-33	2700000	1836000	1053000	2889000	107.00
2033-34	2700000	1836000	1053000	2889000	107.00
2034-35	2700000	1836000	1053000	2889000	107.00
2035-36	2700000	1836000	1053000	2889000	107.00

Thus, continuing ash utilization (More than 100% from last 5 years) of ash from the ash dyke will enhance the volume availability in the existing ash dyke. The expected residual life of ash dykes, basis the above-mentioned utilization plan, shall be approx. 19.7 years at 90% ash utilization for the 1550 MW units of FGUTPS.

Study regarding Stability of Ash dyke

Assessment of ash dyke embankment stability of Arkha & Umran dykes of Feroze Gandhi Unchahar Thermal Power Station conducted by Indian Institute of Technology-Roorkee. IIT-Roorkee submitted the Stability report in Oct'2023.

The concluding remarks of the report is: "Geotechnically, Arkha & Umran dykes are stable from both statically and dynamically".

The Recommendations of the report and the Status of implementation is as under:-

A. For Arkha Ash Dyke

S. No	Recommendation of report	Status of implementation
1.	Since no internal drainage system has been provided in the starter dyke, except for a pervious layer near the base of starter dyke, it will be in order if the length of seepage line (or phreatic) is increased by increasing (as proposed, for example) the top of the raising of Arkha dyke.	The recommendation regarding increasing the seepage/phreatic line length by enhancing the top width/height of Arkha dyke raising is not possible due to land constraints. Complied
2.	No ash in future be excavated from within pondage area for construction purpose without following the criterion of 10H from the line of embankment, where H is the height of 22 embankment.	It shall be ensured that no ash excavation within the pondage area is carried out without maintaining the prescribed 10H criteria from the embankment line during future construction activities. Complied
3.	Regular maintenance for cavity settlement, longitudinal and lateral cracks, rain-cuts/gully of the embankment shall improve not only the safely but also the life of ash dyke.	Regular inspection and maintenance of cavity settlement, longitudinal/lateral cracks, and rain cuts/gullies of the embankment are being carried out to improve the safety and service life of the ash dyke. Complied
4.	An isotopic study for identifying the source of water exit of the hume pipe will help identify remedial measures.	The suggestion regarding isotopic study for identification of the water source existing through the hume pipe has been noted and shall be examined further in consultation with technical experts/agencies. Shall be Complied by 30.06.2027.
5.	Piezometers be installed at the site of distress all along the section starting from the upstream toe of the raising to the downstream toe of starter dyke at suitable (but closer) interval for monitoring of seepage water level. It will help provide the profile of phreatic line and, in turn, the path of seepage.	At Arkha 22 piezometers are installed, ground water tables are being monitored regularly and logbooks being maintained. Complied
6.	Closing of hume pipe at both the ends, and leave it forever at its place, may not be good for the health of Arkha dyke as it may lead to gradual building up of pore pressure there and, in the event of burst any time later, it may lead to complete failure of the distress part of lagoon U-1 dyke near culvert on Shambhaka Purva village road. Presently, the hume pipe acts more like an interceptor between the ash dyke seepage water and the ground water of the adjoining agricultural land.	The observations regarding closure of the hume pipe at both the end is not possible because it is cater as a storm water drain. Complied
7.	The proposed extension of the Raising top width by 10 m is a sound remedial measure from both geotechnical stability and seepage view-points.	The proposed extension of raising top width by 10 m has been noted as an effective remedial measure and shall be considered during future strengthening works subject to technical feasibility and approval. Complied
8.	The temporary construction of a bund within the ash dyke area, upstream of the Raising at the toe of its proposed extension, all along the sides of hume pipe and River Ganga can greatly stabilize the ash dyke from both stability and drainage view-points.	Construction of bund is not required because, Ash is filled at distress zone. Complied
9.	The stability due to seepage through ash dyke embankments appears to remain safe in future as well till the mining of ash from within the dyke area continues, but	Special care shall be taken to comply with the prescribed 10H criteria during ash excavation/mining activities within the dyke

S. No	Recommendation of report	Status of implementation
	with special care of 10H criterion described earlier.	area to ensure continued stability against seepage. Complied
10.	The ash dyke requires regular vigil and maintenance for continued safety.	Regular vigilance, inspection, and maintenance activities are being carried out for ensuring continued safety and stability of the ash dyke. Complied

B. For Umran Ash Dyke

S. No	Recommendation of report	Status of implementation
1.	Surface drains at the toe of the starter dyke meant for draining the ash dyke (seepage) water and the rainwater from adjoining areas be kept clean enough for enhancing the velocity of draining water and, in turn, for easy release of pore water from ash dyke embankments and speedily vacating the adjoining area from rain water.	The toe drains and peripheral drains being cleaned on regular basis. Complied
2.	At least one section towards the villages at the extreme diagonal corner of the dyke periphery (on left of entry to dyke) be equipped with piezometers for regular monitoring of the profile of phreatic line.	Piezometers installed. Complied
3.	The ash dyke requires regular vigil and maintenance for continued safety.	Regular visits and maintenance being done properly. Complied

8. **Summary of violation under EIA, 2006/court case/show cause/direction if any, related to the project under consideration:**

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 of hearing	Direction /Action taken by the PP
All Court Cases Summary: -						
Total Court Cases pending- 66 Nos. 1. Labour matter- 28 2. Misc. case- 12 3. Service matter- 7 4. Land/Revenue matter- 5 5. Contract case- 4 6. Criminal case- 4 7. Arbitration-1 8. Taxation-1 9. Motor Accident Case-1 10. PIL-1 11. Environment matter-1 (details mentioned herewith)						
Environment related Court case: -						
1	WRIT (C) - 2837/2025 Art 226 CNR No. DLHC010115072025	Delhi High Court	Challenging the Demand Notice dated 26.03.2024 issued by the Forest Conservator, Wildlife, U.P i.e. Respondent No. 2, directing the NTPC-Unchahar to deposit 2% of project cost,	18.03.2026	25.08.2026	Pending

S. No	Case No/ Title	Name of the Court	Brief summary of the case	Last date of hearing	Next date of hearing	Direction /Action taken by the PP
			based on the decision of the Standing Committee of the NBWL i.e. Respondent No. 3 and declare that the EC dated 10.05.2013 issued by the Respondent No. 4 [MOEF&CC] will not cease to be valid on account of the non-compliance of the illegal decision of the Respondent No. 3. Pursuant to withdrawal of NGT Appeal 28/2024, the matter is being pursued in Delhi High Court.			

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

9. **Written Submission**:

Query 1: Revised Land breakup by reducing Ash Pond area

Reply: The revised land breakup is given below:

Description of land	Land area (Ha)
Main plant (Common for Stages-I, II, III & IV)	237.79
Ash Dyke (Common for all Stages)	155.00
Ash Pipeline Corridor (Common for all Stages)	20.40
Township (Common for all Stages)	61.27
Solar Plant (Ground mounted solar installation at main plant, township & other land)	24.54
Other Land (Outside plant boundary for Roads, Drains, Rly. Corridor)	60.00
Other Land (For future use)	45.00
Greenbelt (Existing)	129.08
Greenbelt (Proposed)	158.45
Total land (Ha)	**891.52**

Observations and deliberation of the EAC

10. ***The Committee observed and noted the following***:

i. Instant proposal is seeking for amendment in Coal Based Thermal Power Plant of 1550 MW (Stage-I to IV) Feroz Gandhi Unchahar Thermal Power Station in Babhanpur & Niranjanpur Villages Unchahar Tehsil, Raebareli District, in Uttar Pradesh by M/s. National Thermal Power Corporation (NTPC) Ltd.

ii. The committee observed that as per the ECs accorded on 27.05.1985, 15.03.2004 and 10.05.2013 there is no involvement of forest land in an area of 891.52 Ha. However, proponent disclosed that there is involvement of 4.93 Ha forest within 891.52 Ha for which requisite FC obtained on 04.03.1997. However, PP inadvertently failed to incorporate the same in the EC letters dated 15.03.2004 and 10.05.2013.

iii. The Committee examined the proposed amendment in the Specific Conditions (ii) of EC Stage-III, Ref. No.: J-13011/13/ 2002/IA-II (T) dated 15.03.2004 regarding the “300 acres of additional land for ash disposal for stage-III (250 acres for ash dyke and 50 acres for laying the pipeline from the plant to the ash disposal area) will be acquired.”

iv. Project Proponent has given justification that to conserve the land and maximize ash utilization, FGUTPS has not acquired additional 300 acres’ land for the construction of new ash dyke for Stage-III which was permitted by MoEF&CC and as the FGUTPS is utilizing 100% ash, the existing ash dyke volume for Stage-I&II, after proposed greenbelt development, will be adequate for temporary storage of unutilized ash for all the Stages.

v. Project Proponent has submitted the Annual Ash Compliance Report, Existing & Proposed Ash dyke details, Ash Dyke Residual life calculation and Ash dyke Stability Report.

vi. The expected life of existing 155 Ha ash dyke will be 19.7 years (considering 90 % ash utilization) of the 1550 MW TPP due to the concurrent excavation and ash utilization plan.

vii. The Committee examined the proposed amendment in the Specific Conditions (iii) of EC Stage-III, Ref. No.: J-13011/13/ 2002/IA-II (T) dated 15.03.2004 regarding the "The likely number of displaced persons reported as 229. However, a detailed socio-economic survey should be carried out to identify the exact number of persons and reported to the Ministry and State Government within one year. The Rehabilitation and Resettlement of all displaced persons shall be as per State Government's regulations." Project Proponent has given justification that no additional land was acquired for ash dyke and laying pipeline for Stage-III. Therefore, no displacement of persons and no R&R is involved. However, Rehabilitation and Resettlement activities involved under the previous stages have been completed.

viii. The Committee examined the proposed amendment in the Conditions (10) of EC Stage-II, Ref. No.:25/38/84- EN. - 2 dated- 27.05.1985, Conditions (xiv) of EC Stage-III, Ref. No.: J-13011/13/ 2002/IA-II (T) dated 15.03.2004 and General Condition-xxix of EC Stage-IV, Ref. No.: J-13012/50/ 2010/IA-II (T) dated 10.05.2013 regarding Greenbelt development.

ix. Project Proponent has requested to consolidate the Greenbelt Condition in place of multiple conditions that Project proponent will develop Greenbelt in 158.45 Ha in addition to existing 129.08 Ha. Ultimately, total 287.53 Ha land will be taken up under Greenbelt development as 33% of the total land area of 866.98 Ha (excluding the land used for solar plant to harness renewable energy).

x. Project Proponent has submitted the Revised plant layout as per the modified land use break up for greenbelt development and Action plan for the proposed Greenbelt development along with physical and financial outlay.

xi. Project Proponent has informed the EAC that it will progressively reduce the Ash dyke area to 155 Ha as per the submitted plan of Greenbelt development.

xii. EAC asked the Project Proponent to regularly monitor the Ground water around the ash dyke area.

xiii. EAC asked the Project Proponent to plant the trees of at least 2m height in the proposed greenbelt development area.

xiv. EAC deliberated on the written submission submitted by the Project Proponent and found is satisfactory.

Recommendations of the Committee:

11. In view of the foregoing and after the detailed deliberations, the Committee recommended the instant proposal for grant of amendment in the EC dated 27/05/1985 for Stage II, 15/03/2004 for Stage III and 10/05/2013 for Stage IV and its subsequent amendments dated 26/08/2019, 21/10/2020 and 25/01/2022 as detailed below subject to stipulation of additional specific conditions (**Annexure-I**).

<table>
<tr><th>Conditions/ points/ S.No. of ECs</th><th>Details of Conditions as per Existing EC conditions</th><th>Recommendations of EAC</th></tr>
<tr><td>EC Stage-II, Ref. No.:25/38/84- EN.- 2 dated- 27.05.1985
EC Stage-III, Ref. No.: J-13011/13/ 2002/IA-II (T) dated 15.03.2004
EC Stage-IV, Ref. No.: J-13012/50/</td><td>The total existing capacity of the power plant is 1050 MW, consisting of Stage- I (2x210 MW); Stage-II (2x210 MW) & Stage-III (1x210 MW). No additional land is required for the expansion by addition of Stage-IV (1x500 MW). The same will be accommodated within available land, which is</td><td>Agreed
The total land requirement for 1550MW (Stage I-IV) Feroz Gandhi Unchahar Thermal Power Station in Unchahar Tehsil, Raebareli District, in Uttar Pradesh by M/s. NTPC Limited." is 891.52 Ha including 4.93 Ha of forest land.
The component wise breakup for the total project area is as below:
<table>
<tr><th>Description of land</th><th>Land area</th></tr>
</table>
</td></tr>
</table>

<table>
<tr><th>Conditions/ points/ S.No. of ECs</th><th>Details of Conditions as per Existing EC conditions</th><th>Recommendations of EAC</th></tr>
<tr><td>2010/IA-II (T) dated 10.05.2013</td><td>about 2203 acres.</td><td>
<table>
<tr><th></th><th>(Ha)</th></tr>
<tr><td>Main plant (Common for Stages-I, II, III & IV)</td><td>237.79</td></tr>
<tr><td>Ash Dyke (Common for all Stages)</td><td>155.00</td></tr>
<tr><td>Ash Pipeline Corridor (Common for all Stages)</td><td>20.40</td></tr>
<tr><td>Township (Common for all Stages)</td><td>61.27</td></tr>
<tr><td>Solar Plant (Ground mounted solar installation at main plant, township & other land)</td><td>24.54</td></tr>
<tr><td>Other Land (Outside plant boundary for Roads, Drains, Rly. Corridor)</td><td>60.00</td></tr>
<tr><td>Other Land (For future use)</td><td>45.00</td></tr>
<tr><td>Greenbelt (Existing)</td><td>129.08</td></tr>
<tr><td>Greenbelt (Proposed)</td><td>158.45</td></tr>
<tr><td>Total land (Ha)</td><td>891.52</td></tr>
</table>
Forest land of about 4.93 Ha is involved under the ash dyke area at Umran, for which forest clearance is available vide letter dated 04.03.1997.
</td></tr>
<tr><td>EC Stage-III, Ref. No.: J-13011/13/2002/IA-II (T) dated 15.03.2004
EC Condition no. ii</td><td>300 acres of additional land for ash disposal for stage-III (250 acres for ash dyke and 50 acres for laying the pipeline from the plant to the ash disposal area) will be acquired.</td><td>Agreed
Existing ash dykes at Arkha and Umran will be utilized for ash disposal of all Stages, and no additional land will be acquired for ash dyke and laying pipeline for Stage III.</td></tr>
<tr><td>EC Stage-III, Ref. No.: J-13011/13/2002/IA-II (T) dated 15.03.2004
EC Condition no. iii</td><td>The likely number of displaced persons reported as 229. However, a detailed socio-economic survey should be carried out to identify the exact number of persons and reported to the Ministry and State Government within one year. The Rehabilitation and Resettlement of all displaced persons shall be as per State Government’s regulations.</td><td>Agreed
No land acquisition and no displacement of people is envisaged. Thus, no fresh R&R activities are required.</td></tr>
<tr><td>EC Stage-II, Ref. No.:25/38/84- EN.- 2 dated- 27.05.1985
EC Condition no. 10</td><td>A green belt should be raised all around the power plant to trap the dust particles.</td><td rowspan="3">Agreed
Project proponent will develop Greenbelt in 158.45 Ha in addition to existing 129.08 Ha. Ultimately, total 287.53 Ha land will be taken up under Greenbelt development as 33% of the total land area of 866.98 Ha (excluding the land used for solar plant to harness renewable energy)</td></tr>
<tr><td>EC Stage-III, Ref. No.: J-13011/13/2002/IA-II (T) dated 15.03.2004
EC Condition no. xiv</td><td>Greenbelt should be developed in about 30 acres around the ash dyke area and available space in the township. Tree density of 1500-2000 trees per ha should be maintained.</td></tr>
<tr><td>EC Stage-IV, Ref. No.: J-13012/50/2010/IA-II (T) dated 10.05.2013
General Condition-</td><td>Green Belt consisting of 3 tiers of plantations of native species around plant not less than 100 m width shall be raised (except in areas not feasible). The density of trees shall</td></tr>
</table>

Conditions/ points/ S.No. of ECs	Details of Conditions as per Existing EC conditions	Recommendations of EAC
xxix	not less than 2500 per ha with survival rate not less than 80 %.	

Decision of MoEF&CC

12. The undersigned is directed to inform that Ministry of Environment, Forest and Climate Change has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the Expert Appraisal Committee (Thermal) hereby decided for amendment in Environment Clearance accorded by the Ministry vide letter dated 27/05/1985 for Stage II, 15/03/2004 for Stage III and 10/05/2013 for Stage IV and its subsequent amendments as mentioned above at ***Para-11***.

13. All other terms and conditions prescribed in EC letters dated 27/05/1985 for Stage II, 15/03/2004 for Stage III and 10/05/2013 for Stage IV and its subsequent amendment shall remain unchanged.

14. The project proponent shall obtain fresh Environment Clearance in case of change in scope of the project, if any.

15. This issues with the approval of the Competent Authority.

Yours faithfully,
(Sundar Ramanathan)
Scientist 'F'
Tel: 011- 20819378
Email- r.sundar@nic.in

Copy To

1. The District Collector, DC Office, Raebareli, Rae Bareli, Uttar Pradesh, dmrae@nic.in
2. The Deputy Director General, Regional Office, Deputy Inspector General Of Forests (Central) Ministry Of Environment Forest And Climate Change Regional Office Kendriya Bhawan 11th Floor Sector "H" Aliganj Lucknow – 226024., N/A, N/A, rocz.lko-mef@nic.in
3. The Member Secretary, SPCB/PCC, Building No Tc-12v Vibhuti Khand Gomti Nagar, Lucknow, Uttar Pradesh, ms@uppcb.in
4. The Secretary, Ministry of Power, Shram Shakti Bhawan Rafi Marg New Delhi 110001, New Delhi, Delhi, Secy-power@nic.in
5. The Chairman, Central Electricity Authority, Sewa Bhawan R.K. Puram New Delhi-110066., New Delhi, Delhi, chair@nic.in
6. The Member Secretary, CGWA, 18/11 Jamnagar House Man Singh Road, Central, Delhi, cgwa@nic.in
7. The Member Secretary, CPCB, Parivesh Bhawan Cbd-Cum-Office Complex East Arjun Nagar, East, Delhi, mscb.cpcb@nic.in
8. The Monitoring Cell MoEFCC, Compliance & Monitoring Division, Indira Paryavaran Bhawan Jor Bagh Road New Delhi, South, Delhi, moefcc-monitoring@gov.in

Annexure 1

Specific EC Conditions for (Thermal Power Plants)

1. Additional Specific Conditions:

<table>
<tr><th>S. No</th><th>EC Conditions</th></tr>
<tr><td>1.1</td><td>Ash dyke certification for structural stability and safety assessment (as per the Guidelines issued by CEA & CPCB, in June'2023) for the existing ash dyke situated in an area of 155 Ha shall be conducted through reputed organisation once in a year and the recommendations of the study report shall be duly complied with.</td></tr>
<tr><td>1.2</td><td>All the recommendations of the stability analysis report of IIT-Roorkee, Oct'2023 shall be complied with.</td></tr>
<tr><td>1.3</td><td>PP shall expedite the Gap planation (51.50 Ha) and Additional plantation activities in 158.45 Ha as per the action plan given below:
<table>
<tr><td colspan="13"><u>GREEN BELT DEVELOPMENT ACTION PLAN</u></td></tr>
<tr><td colspan="13">Location: At Plant/Township/Ash Dyke/ Outside Plant Boundary-GAP filling Plantation</td></tr>
<tr><td colspan="13">Land Area: 51.50 Ha</td></tr>
<tr><td>S.No.</td><td>Description</td><td>2026-27</td><td>2027-28</td><td>2028-29</td><td>2029-30</td><td>2030-31</td><td>2031-32</td><td>2032-33</td><td>2033-34</td><td>2034-35</td><td>Total</td><td>Remarks</td></tr>
<tr><td>1</td><td>Civil & Other Preparation Works for Plantation (Rs. Crore)</td><td>0.146</td><td>0.360</td><td>0.377</td><td>0.395</td><td>0.401</td><td>0.328</td><td>0.000</td><td>0.000</td><td></td><td>2.007</td><td>Dressing/ levelling works etc as per site requirement</td></tr>
<tr><td>2</td><td>Greenbelt Tree Plantation Works:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>a</td><td>Number of Trees @2500/Ha (Nos.)</td><td>40100</td><td>25100</td><td>25000</td><td>25000</td><td>24150</td><td>18825</td><td></td><td></td><td></td><td>158175</td><td rowspan="3">Execution through State Forest Department & Internal resources</td></tr>
<tr><td>b</td><td>Land area for Plantation (In Ha)</td><td>4.81</td><td>10.04</td><td>10.00</td><td>10.00</td><td>9.66</td><td>7.53</td><td></td><td></td><td></td><td>52.04</td></tr>
<tr><td>c</td><td>Cost of Tree Plantation (Rs. Crore)</td><td>0.822</td><td>0.435</td><td>0.455</td><td>0.478</td><td>0.484</td><td>0.396</td><td></td><td></td><td></td><td>3.070</td></tr>
<tr><td>3</td><td>Grand Total Cost of Tree Plantation (Rs. Crore)</td><td>0.968</td><td>0.795</td><td>0.831</td><td>0.873</td><td>0.885</td><td>0.725</td><td>0.000</td><td>0.000</td><td></td><td>5.077</td><td></td></tr>
<tr><td colspan="13">Location: Lagoon-2 of Arkha Ash Dyke, Umran Ash Dyke & Balance area outside Plant Boundary</td></tr>
<tr><td colspan="13">Land Area: 158.45 Ha</td></tr>
<tr><td>S.No.</td><td>Description</td><td>2026-27</td><td>2027-28</td><td>2028-29</td><td>2029-30</td><td>2030-31</td><td>2031-32</td><td>2032-33</td><td>2033-34</td><td>2034-35</td><td>Total</td><td>Remarks</td></tr>
<tr><td></td><td></td><td colspan="6">Estimated Expenditure in Year (Rs. Crore)</td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>1</td><td>Civil & Other Preparation Works for</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
</table></td></tr>
</table>

S. No	EC Conditions

	Plantation (Rs. Crore)											
A	**ARKHA ASH DYKE 91.16 Ha**											
a	Stoppage of ash filling & stabilisation (Rs. Crore)				7.53	7.53	7.53	7.53			**30.11**	Stopage of ash filling, Shifting of ash pipelines, Prepration of DPR, Initiation of Purchase Requisition, Award of Purchase Order, Execution of Works- Divide bund formation, Stabilistion of balance dyke area of Lagoon 2 and Good earth cover of 500 m in green belt area.
b	Pipe rerouting works (Rs. Crore)											
c	Good earth filling and levelling for plantation (Rs. Crore)											
B	**UMRAN ASH DYKE 40 Ha**											
a	Stoppage of ash filling & stabilisation (Rs. Crore)						5.23	5.23	5.23	5.23	**20.92**	
b	Pipe rerouting works (Rs. Crore)											
c	Good earth filling and levelling for plantation (Rs. Crore)											
C	**BALANCE AREA 27.29 Ha**											

<table>
<tr><th>S. No</th><th>EC Conditions</th></tr>
<tr><td></td><td>
<table>
<tr><td>a</td><td>Preparation works for balance area outside plant boundary</td><td></td><td>0.22</td><td>0.23</td><td>0.24</td><td>0.22</td><td>0.17</td><td></td><td></td><td></td><td>1.07</td><td></td></tr>
<tr><td>2</td><td>Greenbelt Tree Plantation Works:</td><td>2026-27</td><td>2027-28</td><td>2028-29</td><td>2029-30</td><td>2030-31</td><td>2031-32</td><td>2032-33</td><td>2033-34</td><td>2034-35</td><td>Total</td><td>Remarks</td></tr>
<tr><td>a</td><td>Number of Trees @2500/Ha (Nos.)</td><td></td><td>15000</td><td>15000</td><td>15000</td><td>64075</td><td>66175</td><td>125000</td><td>95875</td><td></td><td>396125</td><td rowspan="3">Execution through State Forest Department</td></tr>
<tr><td>b</td><td>Land area for Plantation (In Ha)</td><td></td><td>6</td><td>6</td><td>6</td><td>25.63</td><td>26.47</td><td>50</td><td>38.35</td><td></td><td>158.45</td></tr>
<tr><td>c</td><td>Cost of Tree Plantation (Rs. Crore)</td><td></td><td>0.260</td><td>0.273</td><td>0.287</td><td>1.285</td><td>1.394</td><td>2.632</td><td>2.019</td><td></td><td>8.149</td></tr>
<tr><td>3</td><td>Grand Total Cost of Tree Plantation (Rs. Crore)</td><td></td><td>0.475</td><td>0.499</td><td>8.052</td><td>9.033</td><td>14.327</td><td>15.391</td><td>7.249</td><td>5.230</td><td>60.256</td><td></td></tr>
</table>
</td></tr>
<tr><td>1.4</td><td>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.</td></tr>
<tr><td>1.5</td><td>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.</td></tr>
<tr><td>1.6</td><td>Proponent shall apply for transfer of EC accorded for Stage II project in the name of M/s. NTPC within one month from the date of accord of EC amendment.</td></tr>
</table>

Signature Not Verified

Digitally Signed by : Sundar Ramanathan
Member Secretary, MoEFCC (EC)

Date: 07/08/2026