

**ENVIRONMENT ACTION PLAN FOR Eastern Region PROJECTS -NTPC Ltd.**

Sl.No.	Developer	Project	Sector	State	Region	Unit No	Dt. of Comm(as per CEA)	Capacity MW (as on31.12.16)	New limit-SPM	ESP R&M status	New Sox limit	FGD compln.	New Nox limit	DeNox completion plan	CC conversion	Remarks
1	NTPC	Farakka STPS	Central	W.B	ER	1	01.Jän.86	200	100	In progress,2018-19	600		600	NR	NE	Unit 1-5 may be allowed for conversion to flexible operation
2	NTPC	Farakka STPS	Central	W.B	ER	2	24.Dez.86	200	100	In progress,2018-19	600		600	NR	NE	
3	NTPC	Farakka STPS	Central	W.B	ER	3	06.Aug.87	200	100	In progress,2018-19	600		600	NR	NE	
4	NTPC	Farakka STPS	Central	W.B	ER	4	25.Sep.92	500	100	2020-21	200		600	NR	NE	
5	NTPC	Farakka STPS	Central	W.B	ER	5	16.Feb.94	500	100	2020-21	200		600	NR	NE	
6	NTPC	Kahalgaon STPS	Central	Bihar	ER	1	31.Mär.92	210	100	2020-21	600		600	NE	NR	Unit 1-4 may be allowed for conversion to flexible operation
7	NTPC	Kahalgaon STPS	Central	Bihar	ER	2	17.Mär.94	210	100	2020-21	600		600	NE	NR	
8	NTPC	Kahalgaon STPS	Central	Bihar	ER	3	24.Mär.95	210	100	2021-22	600		600	NE	NR	
9	NTPC	Kahalgaon STPS	Central	Bihar	ER	4	18.Mär.96	210	100	2022-23	600		600	NE	NR	
10	NTPC	Kahalgaon STPS	Central	Bihar	ER	5	31.Mär.07	500	50	NR	200	2022-23	300	2022-23	NR	Will be made compliant with env. Norms
11	NTPC	Kahalgaon STPS	Central	Bihar	ER	6	16.Mär.08	500	50	NR	200	2023-24	300	2023-24	NR	Will be made compliant with env. Norms
12	NTPC	Nabinagar TPP	Central	Bihar	ER	1	2016	250	50	NR	600	2022-23	300	2023-24		Will be made compliant with env. Norms
13	NTPC	Talcher(Old)TPS	Central	Odisha	ER	1	17.Dez.67	60	50	Completed	600		600	NE	NR	Unit 1-6 to be phased out after commissioning of Stg III (2 x 660 MW),likely by-2023-24
14	NTPC	Talcher(Old)TPS	Central	Odisha	ER	2	28.Mär.68	60	50	Completed	600		600	NE	NR	
15	NTPC	Talcher(Old)TPS	Central	Odisha	ER	3	11.Jul.68	60	50	Completed	600		600	NE	NR	
16	NTPC	Talcher(Old)TPS	Central	Odisha	ER	4	11.Apr.69	60	50	Completed	600		600	NE	NR	
17	NTPC	Talcher(Old)TPS	Central	Odisha	ER	5	24.Mär.82	110	50	Completed	600		600	NE	NR	
18	NTPC	Talcher(Old)TPS	Central	Odisha	ER	6	24.Mär.83	110	50	Completed	600		600	NE	NR	
19	NTPC	Talcher STPS	Central	Odisha	ER	1	19.Feb.95	500	50	In progress,2018-19	200		600	NR	NR	Unit 1-4 may be allowed for conversion to flexible operation
20	NTPC	Talcher STPS	Central	Odisha	ER	2	27.Mär.96	500	50	In progress,2018-19	200		600	NR	NR	
21	NTPC	Talcher STPS	Central	Odisha	ER	3	04.Jän.03	500	50	In progress,2018-19	200		600	NR	NR	
22	NTPC	Talcher STPS	Central	Odisha	ER	4	25.Okt.03	500	50	In progress,2018-19	200		600	NR	NR	
23	NTPC	Talcher STPS	Central	Odisha	ER	5	13.Mai.04	500	50	In progress,2019-20	200	2023-24	300	2023-24	NR	Will be made compliant with env. Norms
24	NTPC	Talcher STPS	Central	Odisha	ER	6	06.Feb.05	500	50	In progress,2019-20	200	2023-24	300	2023-24	NR	Will be made compliant with env. Norms
25	NTPC & Bihar	Muzaffarpur TPS	Central	Bihar	ER	1		110	100	Completed	600		600	NR	NR	Proposal to be finalised in consultation with Govt. of Bihar
26	NTPC & Bihar	Muzaffarpur TPS	Central	Bihar	ER	2		110	100	Completed	600		600	NR	NR	

**Explanatory Note**

As per environment action plan approved by management,no new environment related action is envisaged for the units commissioned before 2003.

# Mercury emission shall be controlled by ESP/ESP R&M as well as planned FGD installation for units as applicable.

# Old units in each region have been identified for flexible operation to meet the grid requirements to avoid rendering of expenditure made towards R&M of ESPs as infructuous to the extent possible.

**LEGEND**

- \* NR - Not Required
- \* NE - Not Envisaged
- \* CC - Closed Cycle



**DAMODAR VALLEY CORPORATION**  
**OFFICE OF THE CHIEF ENGINEER (OS&U)**  
**DVC TOWERS: VIP ROAD**  
**Kolkata – 700 054**

No. EDCON/OS&U/ Misc./494

Date: 29<sup>th</sup>. March, 2017

To  
The Member Secretary, ERPC,  
14, Golf Club Road,  
Tollygunje, Kolkata – 700 033.

Sub.: Phasing out of thermal units of DVC towards implementation of new environmental norms issued by MoEF & CC – reg.

Ref. No. : (i) ERPC/MS/2016-17 dated 21st March 2017.  
(ii) Special meeting on 24.03.2017 at ERPC's office, Kolkata.

Dear Sir,

As scheduled, DVC representatives attended the special meeting at ERPC, Kolkata on 24/03/2017 for discussion towards Phasing out Plan of Chandrapura TPS U#1-3, Durgapur TPS U#3&4, Bokaro B TPS U#1&2 that are having no space for installation of FGDs to meet new SOx emission norms. It may kindly be recalled that in the meeting another supplementary list was presented wherein Mejia TPS U#1-6, Chandrapura TPS U#7&8 and Bokaro B TPS U#3 have been included under the title of "THERMAL STATION UNITS WHERE NO SPACE FOR FGD" and DVC was requested to submit its views immediately on this score.

In this regard, following is submitted:

Chandrapura TPS Unit # 1 (130MW) & Durgapur TPS Unit# 3 (140MW) have already been de-commissioned and these capacities have been deleted from National Grid by CEA subsequently.

Furthermore, it has been decided to de-commission Chandrapura TPS Unit # 2& 3 (130 MW units) by middle of 2018 after suitable augmentation of the transmission network ensuring grid stability.

(Contd.)

As regards other thermal units enlisted, having no space for FGD installation, our submission is as follows:

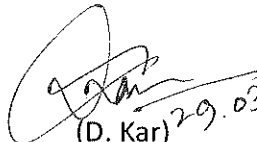
- **Grid Instability:** Closure of these unit will pose severe instability not only in DVC grid in the state of Jharkhand and West Bengal but also affect whole Eastern Regional grid.
- **Consumer inconvenience:** DVC's existing consumers in valley area will starve for power supply due to inadequate generating capacity as well as system constraints. There will be severe load-generation imbalance in DVC grid.

Moreover, Chandrapura TPS Unit #7&8 (2X250MW) and Mejia TPS U#5&6 (2X250MW) are export oriented units catering beneficiaries specially Delhi and MP with long term agreement.

- All the above units were commissioned complying the then statutory norms and Environmental Clearance (EC). Units are located adjacent to each other and there is no space for installation of FGD. Moreover, in ECs there were no stipulation for keeping space for installation of FGD.

This is for your kind information.

Yours faithfully

  
(D. Kar) 29.03.17.  
CE-I, OS&U ,DVC

Copy:

The Chief Engineer (GM), Grid Mgt. Division, CEA, Sewa Bhawan, R. K. Puram,  
Sector-I, New Delhi-110 066. Kind Attn. Shri Dinesh Chandra

**SUBMISSION OF REPORT AND PLAN FOR IMPLEMENTATION MOEF NOTIFICATION DTD. 07/12/2015 REGARDING WBPDCCL' S UNITS OF DIFFERENT POWER STATIONS.**

1. WBPDCCL have 5 power stations at location Kolaghat, Bandel, Santaldih, Bakreswar and Sagardighi.
2. Capacity, COD, Age as on March, 2017 are as below:

Power Station	Unit No.	Capacity (MW)	Age as on March 2017 (Yrs)	Present Sox level	Availability of space for FGD	Remarks
KTPS	U#1	210	27	S/D	Space available	R & M of ESP planned from Feb'19 to Oct'19. Order placed.
	U#2	210	31	1023	Space available	R & M of ESP planned from Apr'18 to Jan'19. Order placed
	U#3	210	33	887	Space available	R & M of ESP planned from Jul'17 to Mar'18. Order placed
	U#4	210	22	463	Space available	Renovation of ESP through OEM M/s GE ALSTOM in FY 2017-18. Order will be placed to OEM within 31/03/17
	U#5	210	26	637	Space available	Renovation of ESP through OEM M/s BHEL in FY 2017-18. Order will be placed to OEM within 31/03/17
	U#6	210	23	731	Space available	Renovation of ESP through OEM M/s BHEL in FY 2017-18. Order will be placed to OEM within 31/03/17
BKTPP	U#1	210	17	621	To be ascertained	Almost complying MOEF norms . RLA study along with requirement of need based R&M will be taken up.
	U#2	210	16	598	To be ascertained	
	U#3	210	16	569	To be ascertained	
	U#4	210	08	561	To be ascertained	
	U#5	210	08	617	To be ascertained	
BTPS	U#1	60	52	718	To be ascertained	Renovation of ESP along with need based R&M has been planned for avoiding station operation with only one unit i.e. BTPS # 5, for compliance of MOEF norms and for future to shift operation to balance with solar power generation .
	U#2	60	52	617	To be ascertained	
	U#3	60	51	616	To be ascertained	
	U#4	60	51	S/D	To be ascertained	
	U#5	215	34	754	To be ascertained	As per SERC & CEA permission , EER & M Completed on 24/11/2015,. Life extension expected 15 yrs from 2016. Cost involvement for EERM is approximate Rs. 650 Crore

STPS	Unit 1 to 4	4X 120			Space available	Phased out due to techno commercial consideration . Ref: CEA/PLG/PDM545/2016 dtd- 21/12/2016
	U#5	250	1/04/2009	650	Space available	Almost complying MOEF norms .
	U#6	250	30/09/2011		Space available	
SGTTP	U#1	300	06/09/2008	570	Space available	Complying MOEF norms .
	U#2	300	06/11/2008	573	Space available	
	U#3	500	1/07/2016	573	Space available	
	U#4	500	20/12/2016	570	Space available	

## 2. Opinion in respect of phasing out of different units of WBPDC:

- a) BTPS & KTPS both stations are located at load centre points. Phasing out of the units will be difficult for load balancing.
- b) BTPS Unit 5 phasing out due to age may not be considered due to completion of EER & M with PG Test & also with MOEF compliance. Effective life extension after EER & M is more than 15 years. **Commissioning date should be considered as 24/11/2015 in stead of 23/03/1983.**
- c) As per direction of SERC Islanding operation at BTPS will be implemented very shortly. Islanding operation with only one unit will not be effective. So support of small unit operation is extremely necessary for islanding operation with DCS backup. Beside this one station with one unit availability & operation may face different problems due to non-availability of auxiliary steam from adjacent units, if phased out. After RLA study of BTPS units, it is found, the health of the units are satisfactory and sustainable, reliable generation complying MOEF norms is expected for another 10 years after R & M work auxiliary system and major overhauling of Boiler-Turbine-Generator. The small units of BTPS are also effective in consideration with load balance source from solar & thermal.
- d) FGD will be installed wherever space is available provided Sox level is found to be higher than the prescribed norms.
- e) Where FGD space is not available, coal of low sulphur content from captive coal mines will be used to maintain Sox level. Winning of coal from captive coal mines is expected to start soon.

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Subject: **Reply i.r.t. Phasing out of Thermal Power Plant Units of The Durgapur Projects Ltd., Durgapur**

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Date: 03/29/17 12:16 PM

From: JNANADA SANKAR MANDAL <plandppsdpl@gmail.com>

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Ref - 1. Letter No. ERPC / MS/ 2016 - 17 / Fax Msg No - 168 dtd 21.03.2017

2. Meeting on 24.03.2017 conducted by ERPC

Respected Sir,

This is to confirm that space has been provided for FGDs for Unit No.s 7 (300MW) & 8 (250MW) in line with the directives of MoEF & CC, Govt. of India.

Further to above, enough space is also available for construction of FGD for Unit No. 6 (110MW).

Thanking you & Regards

(P. K. Banerjee)

General Manager (O&M)

The Durgapur Projects Limited

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