/28864/2023







भारत सरकार Government of India विद्युत मंत्रालय Ministry of Power केन्द्रीय विद्युत प्राधिकरण Central Electricity Authority विद्युत संचार विकास प्रभाग

Power Communication Development Division

CEA Case No.: MRA-1195 Revised IV and EPR details for PTCC proposal of LILO of one ckt of 220 kV D/C Girwali - Hingoli line at proposed 220 kV Kurunda GIS S/S- regd.				
(3)	MSETCL: MSETCL/CO/CE-PS/PTCC/GEN/04122	19.06.2023		
(ii)	BSNL: IC/MBI/PTCC/MRA-2534/04	27.05.2023		
(iii)	This Office: File No.CEA-PS-17-11(12)/6/2023-PCD Division	24.05.2023		
(iv)	This Office: File No.CEA-PS-17-11(12)/6/2023-PCD Division I/25823/2023	20.01.2023		

With reference to the subject PTCC proposal, MSETCL had requested to review the IV and EPR details issued by CEA vide reference (iv) above. Considering the request of MSETCL, CEA, vide reference (iii), had requested BSNL and MSETCL to verify the telecom details and provide SLG fault level at 220 kV bus of Kurunda S/s based on load flow study considering all future expansions/connectivity.

In view of the replies received from MSETCL and BSNL vide references (i) and (ii) respectively, IV on BSNL telecom circuits and EPR for proposed Kurunda S/S have been re-calculated. The voltage likely to be induced on paralleling UG cables of BSNL under Single Line to Ground fault condition are enclosed at Annexure.

EPR zone for the proposed substation is mentioned below:

	EPR zo	ne for the propos		tion is mentioned	TOCIOW.	7.7.7	1 (mata)	d (mts)
I	Name of	Half diagonal	Fault	Resistance of	d (mts)	d (mts)	d (mts) at 7 kV	at 10 kV
	proposed	distance, D/2	Current	earth mat, R	at 430 V	at 650 V	ai/Kv	at 10 KV
1	substation	(mts)	I(kA)	(ohm)				N TIT
	220 kV GIS	95	12.226	0.55	1390.1	887.8	NIL	NIL
	Kurunda					ta ono f	alling with	in the EPR

As per the Telecom Details submitted by BSNL, no telecom assets are falling within the EPR zone of proposed 220 kV GIS Kurunda.

Taking above into consideration, necessary action for issuance of PTCC route approval may be taken under intimation to this office.

Encl.: As above

Piractor 11.7.2023

To,		ngni j	
1.		QA & Inspection circle, 1st floor, D- wing, BSNL	
	Engineer (PTCC),	Admin Bldg., Junu Tara Road, Santacruz (West),	
	Western Zone	Mumbai-400054	
3	'C - intending	MSETCL, O/o Superintending Engineer (Project	Copy for
2.	Engineer (Project	Schemes Dept.), Prakashganga, P. No. C19, #E, BKC,	information
	Schemes)	Bandra (East), Mumbai - 400051	

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ANNEXURE

Map Scale : 1 cm= 500 m

Total Length: 12.90 km

S.R. Value: 20000 Ohm-cm

CEA Case No.: MRA-1195

Name of the Power line: 220 kV DC line, LILO on one of the ckts of 220

kV Girwali – Hingoli D/C line for proposed 220 kV GIS Kurunda S/S

S.No.	Telecom. Details	Length of Parallelis m in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

	BSNL Letter No: IC/MBI/	PTCC/MRA-2534/	03 Date: 21.10.2	.022	
BSN	L Parbhani	*			
1	1 X 50 Pair (2.5 km)	2.7	0.0802	8042	645
2	1 X 50 Pair (2.7 km)	2.3	0.0696	8075	562
3	1 X 50 Pair (1.5 km)	1.3	0.0294	8203	241