



सत्यमेव जयते

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. : MP-499		
PTCC approval for 220 kV DCSS line from PGCIL substation Khandwa to PSS2 (Kanwani) and its LILO at PSS1 (Bhawsinghpura) of 300 MW solar plant of Masaya Solar Energy Private Limited (MSEPL) -Regd.		
S. No	Reference No.	Dated
(i)	Masaya Solar: MSEPL/PTCC/220kV/01	25.09.2022
(ii)	Masaya Solar: MSEPL/PTCC/220kV/01	23.11.2022
(iii)	Masaya Solar Letter	15.12.2022
(iv)	Masaya Solar undertaking letter	15.12.2022
(v)	BSNL: PTCC/WR/2021-22/MP-785	12.10.2022
(vi)	West Central Railway: WCR/N-HQ/120 PTCC-T-50-Pt-III Caes-358	22.11.2022
(vii)	South Central Railway: SG.85/4/3/PTCC/SCR/2022-23/MP-1 RTD	16.11.2022
(viii)	Central Railway: N.153/PTCC/220kV/MP-27	23.11.2022

The PTCC proposal submitted vide reference (i), (ii) and (iii) has been examined. The LF induction on communication circuits of BSNL, West Central Railway, South Central Railway and Central Railway with respect to details furnished vide above reference (v), (vi), (vii) and (viii) respectively have been computed. The voltage likely to be induced on paralleling communication circuits of BSNL and Railways (West Central Railway, South Central Railway, Central Railway) under Single Line to Ground fault condition are enclosed at Annexure-I and Annexure-II respectively. The screening factors as applicable have been considered.

EPR zone for 220/33 kV PSS1 (Bhawsinghpura) is mentioned below:

Voltage Level (v)	430	650	7000	10000
EPR Zone (m)	1970	1277	47	9

EPR zone for 220/33 kV PSS2 (Kanwani) is mentioned below:

Voltage Level (v)	430	650	7000	10000
EPR Zone (m)	1806	1167	39	5

Telecommunication details from Defense are pending.

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The M/s MSEPL vide reference (iv) above, has submitted that the line is linked with the evacuation of power from Masaya solar and is complete in all respect and has requested for provisional PTCC approval so as the charging permission could be initiated by CEA. M/s MSEPL has also submitted that all liabilities arising out of induction on telecom circuit, if any, shall be borne by them.

In view of the above and considering exigency of RE power evacuation, it is requested that provisional PTCC approval may be issued for the subject cited transmission line under intimation to this office.

Encl.: As above

Digitally Signed by Upendra
Kumar
Date: 21-12-2022 13:44:13
Reason: Approved

Chief Engineer

To,

1.	Divisional Engineer (PTCC), Western Zone	QA & Inspection circle, 1 st floor, D- wing, BSNL Admin Bldg., Junu Tara Road, Santa Cruz (West), Mumbai-400054	Annexure-I
2.	GM (S&T) West Central Railway	O/o GM (S&T), 1 st Floor Annex II building, P.F. No. 6, Jabalpur	Annexure-II
3.	GM (Tele) South Central Railway	O/o PCST, 7 th Floor, Rail Nilayam, Secunderabad	
4.	GM (S&T) Central Railway	O/o PCST, 3 rd Floor, Annex Building, CSMT Mumbai <i>dyccste tele@ce railway gov.in</i>	
5.	Director General of Signals	General Staff Branch, Integrated HQ, MoD (army), Sena Bhawan, DHQ, PO, New Delhi- 110 105	With a request to expedite furnishing of Telecom details// NOC for issuance of RAC.
6.	Sr. Manager, Masaya Solar Energy Private Limited	85, Deerwood Chase, Nirvana Country, Unitech Sector 50, Near South City-2, Gurugram	Copy for information.

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ANNEXURE-I

CEA Case No.: MP-499			Map Scale : 1 cm= 500 m		
Name of the Power line: 220 kV DCSS line from PGCIL substation Khandwa to PSS2 (Kanwani) and its LILO at PSS1 (Bhawsinghpura) of 300 MW solar plant of Masaya Solar.			Total Length : 14.285 km		
			S.R. Value : 15000 Ohm-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

BSNL Letter No: PTCC/WR/2021-22/MP-785 Date: 12.10.2022

Affected Blocks & Telecom Circuits Details

(A)	<u>Junapani Exchange Cables</u>				
1	A-B	Out of parallelism			
2	A-C	Out of parallelism			
(B)	<u>Sihada Exchange</u>				
1	H-I	0.7	0.0072	23400	17
(C)	<u>Jaswari Exchange</u>				
1	F-G	0.5	0.0003	22400	7
(D)	<u>Khedi Exchange</u>				
1	D-E	Out of parallelism			

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ANNEXURE-II

CEA Case No.: MP-499		Map Scale : 1 cm= 500 m			
Name of the Power line: 220 kV DCSS line from PGCIL substation Khandwa to PSS2 (Kanwani) and its LILO at PSS1 (Bhawsinghpura) of 300 MW solar plant of Masaya Solar.		Total Length : 14.285 km			
		S.R. Value : 15000 Ohm-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
West Central Railway Letter No.: WCR/N-HQ/120 PTCC-T-50-Pt-III Caes-358 dated 22.11.2022					
<u>Affected Blocks & Telecom Circuits Details</u>					
1	Khandwa to Mathela	1	0.00025	22800	6
2	Mathela to Talvadiya	1.75	0.00024	15800	4
South Central Railway Letter No.: SG.85/4/3/PTCC/SCR/2022-23/MP-1 RTD dated 16.11.2022					
<u>Affected Blocks & Telecom Circuits Details</u>					
1.	Mordar to Khandwa	Out of consideration zone			
Central Railway Letter No.: N.153/PTCC/220kV/MP-27 dated 23.11.2022					
<u>Affected Blocks & Telecom Circuits Details</u>					
1.	Khandwa to Bargaon Gujar	Out of parallelism			