

**MAHARASHTRA STATE ELECTRICITY TRANSMISSION COMPANY LTD.**  
**INTRA OFFICE COMMUNICATION**

<b>Name of Office</b>	: Executive Engineer, EHV Projects Division,
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Ref. : EE/EHV Projects/Dn./Kop/TSS/TS-87/1282

Date : 25.10.2018

To,

**Sub :** Request for providing budgetary offer for line differential protection scheme.

Dear Sir,

MSETCL (Maharashtra State Electricity Transmission Co. Ltd.) has undertaken the establishment of 132 KV traction S/stn. In Ratnagiri & Sindhudurg District, to release the power supply to the Indian Railway for Konkan Railway Corp. (KRCL) for Railway Traction S/stn. These proposed traction S/stn. shall be made LILO on MSETCL's existing SC lines. The length of, one of the circuit of the LILO line is less than 5 Km. For this circuit the line differential scheme is required to be provided. For this purpose, we request you to provide the budgetary offer as per the scope detailed below.

Sr. No.	Particulars
I	Supply of Control & Relay panel for line protection with line differential scheme compliant to IEC 61850 protocol, with distance back up alongwith Multimode patch cord for LIU connection suitable for 1 Bus, at TSS end.
II	OPGW communication
1	Supply of 24 Fiber OPGW cable.
2	Supply of all required accessories and hardwares viz. Terminal Tension & Suspension clamp, assemblies, dead end clamps, pipe holding clamp assemblies, vibration dampers, HDPE pipe etc. suitable for laying OPGW cable on 132 KV Towers.
3	Supply of Optical fiber multiplexer at both ends for voice communication.
4	Supply of Terminal Box Light Interface units (LIUs) with all required accessories for termination of box incl. connectors, adaptors, patch cords, approach cable etc. for both ends.
5	6U wall mounted rack.
III	Supply of Numerical line differential relay compliant to IEC 61850 protocol having feature of inbuilt distance protection as per MSETCL specification for retrofitting at MSETCL S/stn. for replacing existing Distance protection relay
IV	Erection Testing & Commissioning.
1	Route survey, Installation, Splicing, Testing & Commissioning of 24 Fiber OPGW cable and LIU, multiplexer etc. alongwith all allied work.
2	Installation, Testing & Commissioning for retrofitting of line differential relay at MSETCL end.

The above scope is required for the below mentioned. Traction Substations.

Sr. No.	Name of TSS	Length of line	No. of towers		Remote end MSETCL S/Stn.
			Suspension	Tension	
1	132 KV Arawali TSS (Control vtg. 110VDC)	2.2 KM Approx	2	13	110 KV Arawali S/stn.
2	132 KV Ratnagiri TSS (Control vtg. 110VDC)	0.89 KM Approx	--	8	110 KV Ratnagiri S/stn.
3	132 KV Kankavali TSS (Control vtg. 110VDC)	0.402 KM Approx	--	3	132 KV Kankavali S/stn.
4	132 KV Kudal TSS (Control vtg. 110VDC)	2.272 KM Approx	4	8	132 KV Kudal S/stn.
5	132 KV Chinchawali (Kharepatan) TSS (Control vtg. 220VDC)	5.432 KM Approx	1	23	132 KV Chinchawali (Kharepatan) S/stn.

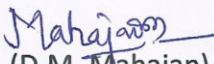
The suppliers of the above relays / CRP should be approved vendors of MSETCL.. It is suggested to carry out the site visit for more details, if required.

For any clarification in this regard please feel free to call the undersigned.

Your immediately response is requested.

Thanking You.

Yours faithfully,

  
(D.M. Mahajan)

**Executive Engineer,  
EHV Projects Dn., Kolhapur.  
( Mob. No. 8411001711)**

Copy s.w.rs. to ,

- 1) The Supdt, Engineers, EHV PC Kolhapur
- 2) The Supdt, Engineers, TCC Karad

Copy f.w.cs. to ,

The Executive Engineer, Testing Division, Kolhapur.

M/F