

220KV GIS and Pothead yard of 186 MW Tato-I Hydro Electric Project, Arunachal Pradesh.		Technical Data Sheets Volume II Section-IV PLCC System
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Sl. No.	Description	Units	To be filled by the Bidder	Remarks (if any)
<b>1.0</b>	<b>PLCC Equipment</b>			
<b>A</b>	<b>Coupling Devices</b>			
1	Name of manufacturer.			
2	Type			
3	Manufacturer's Type / designation.			
4	Rated System Voltage kV (rms).			
5	Highest System Voltage kV (rms).			
6	Method of coupling (phase to phase using two phases to each units & Hybrid Trans.).			
7	Nominal Line Side impedance (ohm).			
8	Nominal equipment side impedance (Balanced / Unbalanced).			
9	Composite loss dB.			
10	Return loss (Minimum) dB.			
11	Bandwidth (kHz) (when used with CVT having HF capacitance of 4400 pF + 10% to -5% & return loss not less than 12 dB.)			
12	Nominal Peak envelope Power (Watt).			
13	Standard to which conforms.			
<b>B</b>	<b>PLC Coaxial Cable (Armoured)</b>			
1	Name of manufacturer.			
2	Type.			
3	Manufacturer's Type / designation.			
4	Rated System Voltage kV (rms).			
5	Highest System Voltage kV (rms).			
6	Impedance (Ohms) (to match PLCC) balance/ unbalanced.			
7	Maximum attenuation (dB/100m) at 200 C/kHz.			
8	Capacitance (pF/m).			
9	Dielectric withstand voltage = 'kV (50 Hz).			
10	Relative signal velocity %.			
11	Maximum Power rating (Watt).			
12	Insulation Resistance.			
13	Maximum Temperature.			
14	Loop resistance (ohm / Km) at 200 C not to exceed.			
<b>C</b>	<b>PLCC Equipment.</b>			

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1	Name of manufacture.			
2	Type.			
3	Carrier Frequency.			
4	Power output at HF Terminal.			
5	Details of Automatic gain control.			
6	Details of equalization of line frequency attenuation distortion.			
7	Details of Connection to another PLC terminal at an IF frequency.			
8	Details of matching unbalanced 75 and 125 Ohms impedance.			
9	Baud rate range for data cards.			
10	Upper cut off frequency of voice band.			
11	Frequency data channels.			
12	DC power supply voltage.			
13	Accuracy of carrier oscillators.			
14	Transmitter output level.			
15	Receiver pilot level.			
16	Receive carrier level.			
17	IF oscillator level.			
18	Frequency Response.			
19	Receiver selectivity.			
20	Input speech level adjustment.			
21	Input data or telecontrol level adjustment.			
22	Distortion.			
23	Idle noise.			
24	Total time taken for receipt of trip command, transmission over link, reception and issuing trip command.			
	(i) For permissive inter-tripping.			
	(ii) For direct inter-tripping.			
<b>D</b>	<b>VF Transmission Terminal for Protection Signals</b>			
	(Protection Coupler)			
<b>E</b>	<b>Telephone Sets</b>			
1	Make			
2	Type			
3	Caller I.D facility Provided			
4	Catalogue & Leaf let to be attached			