

SCHEDULE OF GUARANTEED TECHNICAL PARTICULARS OF 33 KV CT- PT UNITS 0.2S ACCURACY (OUTDOOR TYPE)

1.	Name of Manufacturer	
2.	Type of Equipment (Out Door Oil Immersed)	
3.	Overall Dimensions of the equipment	
4.	Dimensions of the tank (Please furnish drawing with the offer)	
i)	Length (mm)	
ii)	Breadth (mm)	
iii)	Height (mm)	
5.	Material of the tank	
i)	Thickness of Bottom & Top Cover (mm)	
ii)	Thickness of Sides (mm)	
6.	Make of Insulating oil to be used	
7.	Volume of insulating oil in the Tank (Lt) / Weight of oil (Kg)	
8.	Total Weight of the complete equipment with oil and fittings (Kg)	
9.	Bushing details	
i)	Make	
ii)	Total creepage distance (not less than 300 mm)	
iii)	IS to which bushing conforms	
iv)	Minimum electrical clearance between phase to phase (not less than 350 mm)	
v)	Minimum electrical clearance between phase to earth (not less than 350 mm)	
10.	Current Transformer	
i)	Nominal system voltage (KV rms)	
ii)	Highest system voltage (KV rms)	
iii)	Frequency	
iv)	Impulse withstand (KV Peak) (on metering unit)	
v)	One minute power frequency dry withstand voltage test (on metering unit)	
(a)	Primary (KV rms)	

(b)	Secondary (KV rms)												
vi)	One minute power frequency wet withstand voltage test (KV peak) (on metering unit)												
vii)	Transformation ratio (C.T. Ratio)	10/1A to 400/1A											
viii)	Weight of Core of C.T (3 nos. in Kg)												
ix)	Material of core												
x)	Weight of copper in CT primary (3 Nos.)												
xi)	Weight of copper in CT secondary (3 nos.)												
xii)	Cross sectional of primary												
xiii)	No. of primary turns												
xiv)	CT primary conductor size												
xv)	Cross sectional area of secondary												
xvi)	CT secondary conductor size												
xvii)	No. of secondary turns												
xviii)	Rated output (VA burden)												
xix)	Class of accuracy												
xx)	Rated continuous thermal current												
xxi)	Short time thermal current rating												
xxii)	Rated dynamic current.												
xxiii)	Instrument Security factor												
xxiv)	Maximum ratio error												
xxv)	Maximum Temp. rise over ambient Temp, of 50 ⁰ C at rated continuous thermal current at rated frequency and burden.												
xxvi)	(a) Current density at STC for 1 second (max) (b) Current density at rated current (maximum)												
11.	Potential Transformer												
i)	Nominal system voltage (KV rms)												
ii)	Highest system voltage (KV rms)												
iii)	Frequency												
iv)	Transformation ratio												
v)	Rated output (VA burden) per phase												
vi)	Class of accuracy												

vii)	No. of phase	
viii)	Weight of Core of P.T. (Kg)	
ix)	Material of the core	
x)	Weight of copper in PT primary	
xi)	Weight of copper in PT secondary	
xii)	Class of Insulation	
xiii)	Cross sectional of primary	
xiv)	No. of primary turns	
xv)	Cross sectional area of secondary	
xvi)	No. of secondary turns	
xvii)	Maximum ratio error	
xviii)	Max. phase angle error	
xix)	Rated voltage factor and time.	
xx)	Max. Temp. rise over ambient temp.	
xxi)	Winding connections	
(a)	Primary	
(b)	Secondary	
	Whether neutrals are brought out	
12.	Whether the metering equipment Is suitable for satisfactorily working under abnormal conditions viz-single phasing supply by arrangements by Looping supply phase with other line phase.	
13.	Minimum electrical clearance between phase to earth with bushing mounted on equipment	
14.	Whether air pressure release device is provided	
15.	Whether arrangement provided to take care of expansion & contraction in oil.	
16.	Whether oil conservator tank is provided	
17.	Whether oil drain plug is provided	
18.	Whether 2 Nos. earthing terminals are provided.	
19.	Whether dimensional drawing of the offered equipment is enclosed	
20.	Whether Oil gauge is provided on the conservator tank.	
21.	Whether secondary terminals in the terminal box are properly marked	
22.	Whether base channels are mounted as per specification.	
23.	Whether terminal connectors are provided as per specification.	

24.	Whether meter box, secondary wiring and GI connecting pipe provided.	
25.	Resistance of H V and LV winding at 75C per phase.	
26.	Value of max. Current density of primary of C.T.	
27	Weight of Core of C.T (in Kg)	
28	Material of core	
29	Weight of copper in CT primary (in kg)	
30	Weight of copper in CT secondary (in kg.)	
31	Cross sectional of primary(sq. mm)	
32	No. of primary turns	
33	CT primary conductor size(mm)	
34	Cross sectional area of secondary (sq. mm)	
35	CT secondary conductor size(mm)	
36	Secondary Limiting Voltage.	
37	1/50 ms impulse withstand test voltage	
38	Power frequency dry withstand test voltage	
39	Secondary winding resistance of CT	