



Uttar Gujarat Vij Company Limited

CIN : U40102GJ2003SGC042906

An ISO 9001:2008 Certified Company

Save Energy for Benefit of Self and Nation

Tender No. UGVCL/SP/III/1000/HT TVM with DLMS

ANNEXURE-K

GUARANTEED TECHNICAL PARTICULARS:

Sr.	Specification	UGVCL Requirement	Offered by	Deviation
No.			Supplier	if any
1	SYSTEM :			
	i) Voltage	i)11000/ √3 / 110 /√3		
		66000/√3/110/√3		
	ii) Rated	ii) 5 Amps/1 Amp		
	(Secondary) current			
	iii) Max. Current	iii)200% Ib		
	iv) Frequency	iv) 50 Hz		
2	SYSTEM			
	VARIATION:			
	i) Voltage	i) +20% to -30%		
	ii) Frequency	ii) +/- 5%		
	iii) Temperature	iii)+/-10 degree		
3	Class of Accuracy	0.2s for 1 Amp		
		0.5s for 5 Amp		
4	Applicable Standard	IS 14697, CBIP-325 & other		
		relevant standards as per		
		Specifications		
5	Meter System	Three Phase-4 wire		
		N.B. Meter should work		
		satisfactorily with combined		
		CTPT unit having 3 Nos.		

		PTs/Three phase PT with	
		neutral grounded or floated	
		and 2 Nos. or 3 Nos of CTs	
		with balanced or unbalanced	
		load	
6	Diagram Marking &	It shall be clearly shown in	
0		inside portion of the terminal	
	MADKING	cover & shall be of permanent	
	MARKING	cover & shan be of permanent	
7	D' 1	nature	
/	Display		
	· `		
	1) Type	1) SIN (super twisted	
		nematic type) LCD	
		with Green Backlight	
	ii) Mode of display	ii) Cyclic Scrolling.	
		Sequence of the	
		display parameter	
		must be as per	
		ANNEXURE B.	
		Scrolling should be	
		continuously without	
		any interval between	
		two cycle	
	iii) Battery back up		
	in) Buttery such up	iii)To read in absence of	
		nower	
	iv) Display digits &	Po nor	
	Height of characters	iv) & digit & minimum	
		height 10 mm	
		neight 10 mm	
8	i) Sampling Rate	i) Minimum 3000	
Ũ	i) Samping Rate	samples Per Second	
	ii) Measurement of	sumples i er second	
	hasic electrical		
	auantities during		
	presence of hormonics	ii) A coursey should be as	
	presence of narmonics	no relevent	
	in suppry wanes.	per relevant	
		standard, even when	
		highest order of	
		harmonics is present	

		in supply wave	
9	Meter Sealing		
	a) Meter body	a) 2 nos.	
	b) Terminal block	b) 2 nos.	
	c) MD reset button	c) 1 nos.	
	d) Optical port	d) 1 nos	
10	Recording & storing (memorizing) of measured quantities	 Billing parameters for current & last 12 billing cycle. All instantaneous parameters 	
11	TOD provision & timing	The meter shall have facility for measuring, monitoring and storing of electrical quantities in the memory for EIGHT zones & presently configured in three Zones: Zone:1 - (Peak Hours) 7:00 to 11:00 Hrs + 18:00 to22:00 Hrs Zone:2 - (Night Hours) 22:00 to 06:00 Hrs Zone:3 (Rest Hours) 11:00 to 18:00 Hrs +	
12	Tamper & fraud	To be provided as per technical	
	Protection	specifications	
13	Potential Phase	Meter should record accurately	
	sequence rotation	irrespective of Potential Phase	
1.4	XI 10 0	sequence rotation	
14	Voltage & current	Meter should log/record all	
	features	such following tamper events	
	reatures	as per logie given in	

		 Annexure C along with snap shot data a) Phase wise voltage failure b) Phase wise current failure c) Voltage unbalance d) Current unbalance e) Phase wise Current reversal f) Over voltage g) Low voltage h) Over current 	
15	Unidirectional Feature	Meter shall record correct energy in case of current reversal of one or more phase. Also, meter shall record energy corresponding to such reversal of current in separate register & it should be available on meter display	
16	Indication for wrong phase association	Meter should indicate wrong connections if made to Association respective phase voltage and current	
17	Influence of Permanent Magnet or AC/ DC Electromagnet	Meter should log/record all such tamper events as per logic given annexure C along with snap shot data and energy to be recorded as per CBIP-325 and UGVCL requirement mentioned in cl. no. 5.9 of technical specification.	
20	Meter recording	Meter should be immune by application Jammer circuit i.e. device radiating different high frequency induction and spark discharges.	
21	Power consumption in	Power consumption should Not	

			1	
	i) voltage circuit	more than limit specified in		
	ii) current circuit	relevant IS (value to be		
		specified by bidder)		
22	Expected	20 Years		
	life of Meter			
23	Conformity to	Bidders to certify that product		
	technical	offered is in conformity to		
	specification of this	technical specification of this		
	Tender	Tender		
		(Yes or No ?)		
		If deviations expected, to be		
		declare by bidder with brief		
		write up against any of the		
		clause of specification in the		
		Proforma of Deviation		
		attached.		
24	Conformity to	Bidder has to agreed with		
	Quality Assurance	Quality Assurance Plan		
	Plan attached with	attached with this		
	this specification?	specification		
	1	(Yes or No)		
		If no, Please attach separate		
		sheet showing all deviation/		
		representation with brief write		
		up		
25	Conformity to carry			
	out Routine,	Bidder has to agreed to carry		
	Acceptance and Type	out Routine, Acceptance and		
	tests as per relevant	Type tests as per relevant		
	standards / attached	standards / attached Annexures.		
	Annexures	(Yes or No)		
26	Conformity to	Bidder should agreed for		
	share/extend API /	share/extend API / Protocol		
	Protocol for any BCS	for any BCS as well as HE		
	as well as HES availed	(Yes or No)		
	by UGVCL			
27	Max Demand	Meter should record & display		
		MD KW & MD KVA both		

28	Max Demand :	15 minutes for class 0.2s	
	integration period	30 minutes for class 0.5s	
29	Capability of tamper	Minimum 400 events (200	
	events recording	occurrence + 200 restoration)	
30	MD reset timing &	Both Auto & manual reset	
	incremental of reset	facility to be provided.	
	count	Automatic resetting: at the	
		specified date and time of	
		every month which is 00.00	
		hours of	
		15th date. However, this	
		should be programmable	
		through BCS/CMRI with	
		due authentication of	
		protected password.	
		Manual Reset: by pressing	
		of push button.	
		Incremental of MD reset	
		count on each reset	
31	Load survey	0.2s Class Meters : Load	
	facility	survey for minimum 45 days	
		with 15 minutes integration	
		0.5s Class Meters : Load	
		survey for minimum 60	
		days with 30 min.	
		integration	
32	DLMS compliance as	To be confirmed by bidder	
	per IS 15959: 2011,	with DLMS certificate	
22	Caategory C1 meters		
33	Communica	Optical & RS 232 Port	
24	tion Port	T. 1 C 11 1. 11 C	
34	Conformity for Remote	To be confirmed by bidder for	
	metering	Remote metering	
	DI MS complied DCS	communication to DLWS	
	DLIVIS complied BCS	UES through any males of	
	as well as HES Inrough	DI MS complied CDDS	
	any make of DLIVIS	modern	
	modom	modem	
1	modelli		