CENTRAL POWER RESEARCH INSTITUTE, BHOPAL Web: www.cpri.in, www.tenderwizard.com/CPRI

Revision No. : 05
Dt of Revision : 27.08.2020
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Section : Formats
Topic : Price Bid format for local supplies (Indigenous offer) Issue No. : 02
Issue Dt. : 30.06.2003
Issued by : P A
Document : PPM
FORMAT NO.:CPRI/PUR/⊕PBID/IND

# Section IV L - Price Bid for local supplies

# Tender Enquiry No :STDS/12-01/2020-21/PUR/RTL-Nashik-01

Description of the	Equipment/Goods/Services : Fully Automatic 3 Positions, 200 A Ener	rgy Meter Tes	System.	
Name and address	of the Bidder *			
Quotation Number	and Date*			
HSN code (Harmoni	zed system nomenclature)*			
	•			
GSTIN No*				
SAC code (Services A	Accounting Code)*			
_	nent account number(PAN)*			
Details of EMD subi	nitted*			
Sl.No	Particulars	Qty	Unit Rate in Rupees	Total Amount in Rupees
1	Basic Price (Including mandatory spares, packing and forwarding charges) (The list of mandatory spares shall be provided in the technical bid without mentioning the price)	1		0.00
	Insurance is under Supplier's Scope			
1(a)	GST rate as applicable in percentage only			
	IGST			0.00
	CGST			0.00
	SGST UTGST			0.00
	CESS if any			0.00
2	Transportation Charges (To be Quoted in Lumpsum ,if applicable)			0.00
2(a)	GST rate as applicable in percentage only			
	CGST			0.00
	IGST			0.00
	SGST			0.00
	UTGST			0.00
2	CESS if any Installation and Commissioning Charges (To be Quoted in			0.00
3	Lumpsum ,if applicable)			0.00
3(a)	GST rate as applicable in percentage only			
	CGST			0.00
	IGST			0.00
	SGST			0.00
	UTGST CESS if any			0.00
	CESS if any			0.00
	TOTAL LANDED COST			0.00
	Total Landed Cost in Words			

	PROCUREMENT PROCEDURE OF CP	RI (NON WORK		
Revision No.			Issue No.	: 02
	: 27.08.2020		Issue Dt.	: 30.06.2003
Page No.			Issued by Document	: PA : PPM
	: Formats : Price Bid format for local supplies (Indigenous offer)		FORMAT NO.:CPRI/	
Topic	Section IV L - Price Bid for loc	al cumpline	TURMAT NU.:CFRI/	FUK/CFBID/IND
	CENTRAL POWER RESEARCH INSTITUTE, BENGALURU/BHOPAL Web		vw.tenderwizard.com/(	PRI
	OPTION-1:		witchaer willar alcomy c	
	Post warrenty comprehensive AMC including, Labour, Travel, Spare Parts			
4	etc. in INR (lumpsum)			
	(This cost is optional hence will not to be considered for cost comparission evaluations.)			
	OPTION-2:			
	Optional accessories in INR (lumpsum)			
5	List of items with breakup price to be furnished in case CPRI demands for the same.			
	(This cost is optional hence will not to be considered for cost comparission			
	evaluations.)			
6	Guarantee/Warrantee period			
7	After sales and service facility (location of the facility and			
	address to be furnished)			
8	Delivery period			
9	Validity of the offer			
10	Payment terms			
	(as per CPRI payment terms)			
11	Details of enlistment if any under Department of expenditutre,			
	Minsitry Of Finance , GOI.			
12	Name and address of the customer, if any to whome a similar			
	equipment/items has been supplied with their purchase order			
	number and date (as per the APPENDIX I).			
	,			
13	Whether a similar equipment could be demonstrated to our			
13	representative in case required.			
15	Acceptance for submission of security deposit in the event of			
	placement of order.			

- PN:

  1) The price bid shall be submitted in this format only.

  2) All blue fields are madatorily to be filled in.

  3) As a policy of CPRI High Sea Sales bids are not acceptable and shall be rejeced.

  4) CPRI reserves the right to conduct "predispatch inspection" prior to dispatch at the works of the supplier and the expenditure towards PDI shall be borne by CPRI. However information regarding the rediness of the equipment/machinary for the PDI shall be communicated in writing at lease 70 days in advance.

  5) UNDER TAKING: THE OFFER MADE IS IN STRICT COMPLAINCE WITH THE QUALITY AND OTHER TECHNICAL REQUIREMENT MENTIONED IN SECTION IV T.

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: Price bid format for Non - Local supplies FORMAT NO.:CPRI/PUR/@PBID/IMP Topic

(Import) offers

Section IV NL - Price Bid format for Non - Local supplies (Import) Offer

CENTRAL POWER RESEARCH INSTITUTE, BHOPAL Web: www.cpri.in, www.tenderwizard.com/CPRI

Tender Enquiry No : STDS/12-01/2020-21/PUR/RTL-Nashik-01

Description of the Equipment/Goods/Services: Fully Automatic 3 Positions, 200 A Energy Meter Test System.

Name and address of the Bidder	
Quotation Number and Date	
HSN code (Harmonized system nomenclature)	
GSTIN No (if applicable)	
SAC code (Services Accounting Code)	

Income Tax permanent account number(PAN)

Details of EMD submitted

Sl.no	Partuculars	Qty	Unit Rate in Figures	Currency Type	Amount
1	FOB value of the complete system (Including mandatory spares, packing and forwarding charges) (The list of mandatory spares shall be provided in the technical bid without mentioning the price)	1			0.00
2	Insurance charges upto CPRI(ware house to ware house basis in Lumpsum)				0.00
3	Freight Charges,As applicable(Lumpsum)				
	3a) Air Freight Charges.(Lumpsum)				0.00
	3b) Sea Freight Charges.(Lumpsum)				0.00
4	Total CIP/CIF cost				0.00
	Total CIP/CIF cost in words				
5	Installation and commission charges in INR (Lumpsum)				0.00
5(a)	GST as applicable (GST rate in percentage only)				
	IGST				0.00
	CGST				0.00
	SGST				0.00
	UTGST				0.00
	CESS if any				0.00
	TOTAL COST				0.00
	Total Cost in Words				

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Section : Formats Documents : PPM

Topic : Price bid format for Non - Local supplies FORMAT NO.:CPRI/PUR/@PBID/IMP

(Import) offers

#### Section IV NL - Price Bid format for Non - Local supplies (Import) Offer

#### CENTRAL POWER RESEARCH INSTITUTE, BENGALURU/BHOPAL Web: www.cpri.in, www.tenderwizard.com/CPRI

Sl.no	Partuculars	Qty	Unit Rate in Figures	Currency Type	Amount
6	OPTION-1: Post warrenty comprehensive AMC including, Labour, Travel, Spare Parts etc. in INR (lumpsum) (This cost is optional hence will not to be considered for cost comparission evaluations.)				
7	OPTION-2: Optional accessories in INR (lumpsum) List of items with breakup price to be furnished in case CPRI demands for the same. (This cost is optional hence will not to be considered for cost				
2	Guarantee/Warrantee period				
3	After sales and service facility (location of the facility and address to be furnished)				
4	Delivery period				
5	Validity of the offer				
6	Payment terms (as per CPRI payment terms)				
9	Name and address of the customer, if any to whome a similar equipment/items has been supplied with their purchase order number and date (as per the APPENDIX I).				
10	Whether a similar equipment be demonstrated to our representative in case required.				
12	Acceptance for submission of security deposit in the event of placement of order.				

NOTE: CPRI IS EXEMPTED FROM PAYMENT OF CUSTOMS DUTY UNDER NOTIFICATION NO.51/96 DATED 23-071996 AND AMENDED NOTIFICATION NO.24/2007-CUSTOMS DATED 1-3-2007(HOWEVER CONCESSIONAL CUSTOMS DUTY AND ADDITIONAL CUSTOMS DUTY AS APPLICABLE WIIL BE CONSIDERED.

UNDER TAKING: THE OFFER MADE IS IN STRICT COMPLAINCE WITH THE QUALITY AND OTHER TECHNICAL REQUIREMENT MENTIONED IN SECTION IV T

occi		Documents . 11.00							
Topi	i : Technical S	chnical Specifications format FORMAT NO.:CPRI/PUR/eTBID/GTP							
	Section IV T-Technical Specification								
	CENTRAL POWER RESEARCH INSTITUTE, BHOPAL Web: www.cpri.in, www.tenderwizard.com/CPRI								
		o: STDS/12-01/2020-21/PUR/RTL-Nashik-01							
	Description of the Equipment/Goods/Services : Fully Automatic 3 Positions, 200 A Energy Meter Test System.								
	, , , , , , , , , , , , , , , , , , , ,	nical bid submitted in other than this format is liable to be rejected.							
		re mandatorily to be filled in.							
Nan	ne and address	of the bidder							
Quotation Number and Date									
SI.No	Parameters	CPRI Specification/Requirements		To be Completed by the Bidder					
			Qty	Detials of guaranteed technical parameters offered by the bidder	Guaranteed Technical Particulars (GTP)	Deviation/Remarks specify if an			
L	Objective	To provide facilities for carrying out testing of Routine, Acceptance and Type Test test on all types of 1 Phase / 3 Phase whole current & 3 Phase CTPT operation decreys Meters, prepaid netters, must neters and Thread through. (Built in CT with through hole primary.) Energy Meters in Active, Reactive and apparent Energy Mode up to 200A.	One Set						
2	Scope	Design, Engineering, Manufacture, Supply, Installation, Commissioning and training							
3	Training	Two days training excluding duration of Installation and commissioning to CPRI Engineers on all aspects of operation and maintenance at CPRI Nashik.							
4	Wattatoo	Warrantee of the test system is required covering all the supplies for period of Three (3) years from the date of successful installation and commissioning. Continued technical support during warranty period to be provided.							
5	Calibration	Reference standard, Voltage and Current Source, ICT, shall be calibrated from ISO/IEC 17025 accredited laboratory. All the parameters							

61	QUALIFYING REQUIREMENTS :		
	Should have supplied at least two test benches of same configuration and make & should be in successful operation at ISO/IEC 17025 accredited Govt laboratories on the date of offer.		
6.2	Bidder must give details like Copy of P.O., name of the users, contact person, address and phone no. of user who is using similar system in support of above.		
63	support of above.		
6.4	The bids may be submitted by the manufacturer or their sole authorized representative duly supported by certificate of authorization.		
,	The Bidder should have its own service centre and trained engineers dedicated for trouble shooting and technical support permanently posted in India.		
	Meter Test System shall be CE compliant for Operating and Safety Requirement. The test system shall meet requirement of IEC60736		
8 Power supply	The meter test system shall be suitable for giving an uninterrupted service in following conditions: Ambient temperature (+) 10°C to (+) 40°C for operation. Relative humidity up to 90%,		
ŀ	Mains voltage shall be 3x240V ±10% for three phase supply. Frequency 50Hz ± 5 %.		
	The Equipment must be Dust proof. Meter Test system shall be designed to work satisfactory on power supply fed from UPS.		
9	CONFIGURATIONS & TESTS TO BE PERFORMED		
	Test bench shall be suitable to test 3 nos of meters of current rating up to 200A simultaniously for Active , Reactive and		
9.1	apparent Energy with following configuration:		
	I PH 2 W (3 positions with closed link): Active, Reactive and Apperant Energy for pepaid and post paid meters and smart meters		
9.2	3 PH 4 W (3 positions with closed link): Active, Reactive & Apparent Energy for pepaid and post paid meters and smart meters		
9.3			
9.4	Three numbers of single phase and three phase thread through meters( current connections through hole of built in CT in meters)		
0.4	3 PH 4 W (3positions transformer operated): Active, Reactive & Apparent Energy for pepaid and post paid meters and smart meters		
~	3 PH 3 W (3 positions transformer operated): Active, Reactive & Apparent Energy for Energy meters		
9.6			
9.7	3phase 4 wire ABT meters ( 3 phase 4 wire 3 positions) in Active, Reactive and Apparent		
11	3hase 4 wire panel meters, 3 positions		
	Calibration of Electronic Reference Standard meter shall be feasible.		
12			
	The offered meter test system shall be capable to perform the following tests on the meters as per IEC 62052-11, 62053-11, 21, 22, 23, IS 13010, IS13779, IS14697, IS15884, IS 16444 part 1 &2, IEC 62055-31 and CBIP325		
12.1	Test of Meter constant		
123	Test of Starting Condition and No load condition (pulse count /edge count) Test of No Load		
12.5	Test of Power Consumption		
12.6	Voltage Dips and Short interruptions with programmable interruption time as per IEC 62052-11 and IS 13779, IS 14697		
12.7	Test of Self heating Test of Heating		
12.8	Test of Immunity to Earth fault		
12.0	Test of Influence quantities: voltage variation, frequency variation		
	Accuracy Test for Active & Reactive Energy: With optical Pulse output, Dial Reading and frequency out put		
12.11	Limits of Error ( Balanced & Un balanced in all 4 Quadrants)		
12.13	Test of repeatability of error  Voltage variation and frequency variation		
12.14	Wave form: 10% of 3 <sup>st</sup> harmonic in the current		
12.15	Harmonics Components in the Current & Voltage circuits (IEC 62053-21 Table 8)-		
12.16			
12.17	DC & Even harmonics in AC current circuit(IEC 62052-11, 62053-11 and 21, and IS 13779) Recifire set of 220 A minimum to be supplied		
12.18	Harmonic in current and voltage circuit in phase and antiphase as per IEC 62052-11  Harmonics in current circuit - burst fire waveform as per IEC 62052-11, EC 62053-21, 22		
12.19	Odd Harmonics in current 490 degree phase fired waveform as per IEC 62052-11 IEC 62053-21 AND Sub Harmonics in AC Current		
12.20	circuits (as per IEC 62052-11 & IEC 62053-21) Reverse Phase sequence test		
12.21	Voltage Unbalance test CONSTRUCTION AND COMPONENT OF SYSTEM		
13.1	CONTROCTON AND CONTOURN OF STATEM		
13.1			
13.1	The source shall be Medular type of rack design in which components of the source and reference standard shall be placed. Cubinet shall have cooling fan of sufficient expacity to avoid temperature increase in side the coloned during normal operation. The source cubinet shall		
13.2	The source shall be Modular type of rack design in which components of the source and reference standard shall be placed. Cubinet shall have cooling fast of sufficient capacity to avoid temperature increase in sale the subset during normal operation. The source cabinet shall have prosective enter thorough of summary cabinet shall have prosective enter thorough of summary cabinet shall have prosective enter thorough of summary cabinet shall have prosective entered in the rounded on beautiful period and the control of such as the control of summary cabinet shall have prosected entered in the control of summary cabinets and the control of summary cabinets and the control of summary cabinets and the control of summary cabinets are cabinets as the control of summary cabinets and the control of summary cabinets are cabinets as the control of summary cabinets and cabinets are cabinets as the control of summary cabinets are cabinets as the control of summary cabinets are cabinets as the control of summary cabinets are cabinets as the cabinets are cabin		
133 132 133	The source shall be Medular type of rack design in which components of the source and reference standard shall be placed. Cubinet shall have cooling fan of sufficient expacity to avoid temperature increase in side the coloned during normal operation. The source cubinet shall		
13.3 13.2 13.3 13.4	The source shall be Modular type of rack design in which components of the source and reference standard shall be placed. Cabinet shall have cooling fan of sufficient capacity to avoid temperature increase in sale the cabinet during normal operation. The source cabinet shall have protective much terminal Remission without no frost or side panel. Emergency work shall be provided on bench.  Protection against under voltage and over voltage of mains supply shall be provided.		
13.2 13.3 13.4	The source shall be Modular type of rack design in which components of the source and reference standard shall be placed. Cabinet shall have receiving fast of sufficient espacity to avoid temperature increase in side the cabinet during mental operation. The source cabinet shall have protective earth terminal & means-wrish on finet or side panel. Emergency work shall be provided on brench.  Provincion of limit Setting of output voluge and current System shall be easily programmable to give reference output frequency independent of mains from 45 Hz to 45 Hz in steps of 0.01 Hz.  THE NSYLEM SHALL COMPRESE.		
13.3 13.2 13.3 13.4	The source shall be Modular type of rack design in which components of the source and reference standard shall be placed. Cabinet shall have receiving fast of sufficient espacity to avoid temperature increase in side the cabinet during mental operation. The source cabinet shall have protective earth terminal & meins-article on front or side panel. Emergency such shall be provided on bench.  Provincion of limit Setting of output voluge and current  System shall be easily programmable to give reference output frequency independent of mains from 45 Hz to 65 Hz in steps of 0.01 Hz.  THE NSYEM SHALL COMPRESE MINIMIM OF:  Voltage Source Minimum 550 VA per phase		
133 132 133 134 135 136	The source shall be Modular type of not design in which components of the source and reference standard shall be placed. Cabinet shall have cooling fast of sufficient expective to world importance incurses in side the cubinet during somal operation. The source eathers shall have protective earth terminal & mains ewisch on frost or side panel. Emergency socks shall be provided on bench.  Protection against under voltage and over voltage of mains supply shall be provided.  Provision of limit keing of output voltage of mains supply shall be provided.  System shall be easily programmable to give reference output frequency independent of mains from 45 Hz to 65 Hz in steps of 0.01 Hz.  THE SYSTEM SHALL COMPRISE MINIMUM OF:  Voltage Source Minimum 500 V/Aper phase.  Current Source Minimum 1000 V/Aper phase.		
132 133 134 135 137	The source shall be Modular type of tock design in which components of the source and reference standard shall be glassed. Cabinet shall have cooling fan of sufficient capacity to world importance increase in side the cabinet during normal operation. The source cabinet shall have protective earth terminal & mainse-wish on frost or side med. Emergency swich shall be provided on bench.  Protection against under voltage and over voltage of mains supply shall be provided.  Protection against under voltage and over voltage of mains supply shall be provided.  System shall be easily programmable to give reference output frequency independent of mains from 45 Hz to 65 Hz in steps of 0.01 Hz  THE SYSTEM SHALL COMPRISE MINIMUM OF:  Current Source Minimum 1000 VA per phase, 200 AMP CONTINCOUS CURRENT. The source should have not overload at 200A continuous current for minimum 400 VA per phase, 200 AMP CONTINCOUS CURRENT. The source should have not overload at 200A continuous current for minimum 400 VA per phase, 200 AMP CONTINCOUS CURRENT. The source should have not overload at 200A jobac location concert transferrent a supplement transferrent as preferable.		
133 132 133 134 135 136 137 138 138 1310	The source shall be Modular type of rack design in which components of the source and reference standard shall be placed. Cabinet shall have receiving fast of sufficient expacity to avoid temperature increase in side the cabinet during menual operation. The source cabinet shall have protective earth terminal & mains-article on frost or side panel. Emergency such shall be provided on bench.  Provincion of limit Setting of output volga or mains uppely shall be provided.  Provincion of limit Setting of output volga and current  System shall be easily programmable to give reference output frequency independent of mains from 45 Hz to 65 Hz in steps of 0.01 Hz.  THE NSYTEM STALL COMPRESS: IMMINIM OF:  Voltage Source Maintenan 1000 VA per planes.  Current Source Maintenan 1000 VA per planes, 200 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous current for miniman shorm, source of 10 Vs. higher current is preferable.  There Plane Reference More of 0.02 Accessey class.		
133 133 133 134 135 136 137 138 138 1310 1311 1311	The neutre, shall be Modular type of rack design in which components of the source and reference standard shall be placed. Cabinet shall have cooling fin of fulficient enough to avoid imperature increase in side the cubiest during somal operation. The source school shall have protective out beamind. A malion which on front or sale panel. Increpancy much shall be provided on breach.  Protection against under voltage and over voltage of mains supply shall be provided.  Protection faints Setting of output voltage of mains supply shall be provided.  Provincian of limit Setting of output voltage of mains supply shall be provided.  System shall be easily programmable to give reference output frequency independent of mains from 45 Hz to 65 Hz in steps of 0.01 Hz  THE NOTEM SHALL COMPRISE MINIMIM OF:  Voltage Source Minimum 1000 VA per phase, 200 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous current for minimum 400 VA per phase, 200 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous current for minimum 400 VA per phase, 200 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous current for minimum 400 VA per phase, 200 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous current for minimum 400 VA per phase, 200 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous current for minimum 400 VA per phase, 200 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous current for minimum 400 VA per phase, 200 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous current for minimum 400 VA per phase, 200 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous current for minimum 400 VA per phase, 200 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous current for minimum 400 VA per phase, 200 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous current for minimum 400 VA		
132 133 134 134 135 137 138 139 131 131 131 131 131	The source shall be Modular type of rack design in which components of the source and reference standard shall be placed. Cabinet shall have cooling fain of sufficient equality to world temperature increase in side the cabinet during normal operation. The source cabinet shall have protective earth terminal R. mains-switch on frost or side grand. Emergency work shall be provided on brench.  Protection against under voltage and over voltage of mains supply shall be provided.  Provision of limit Setting of output voltage and current  System shall be easily programmable to give reference course frequency independent of mains from 45 Hz to 65 Hz in steps of 0.01 Hz.  THE SYSTEM SHALL COMPRISE WINNIMM OF:  Voltage Source Minimum 1600 VA per place. 200 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous current for minimum 4 hours. Journal of the shaper courset in perfeasible.  3 place Indiation current transformers 3 into continuous exercent for minimum 4 hours. Journal of 100 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous exercent for minimum 4 hours. Journal of 100 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous exercent for minimum 4 hours. Journal of 100 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous exercent for minimum 4 hours. Journal of 100 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous exercent for minimum 4 hours. Journal of 100 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous exercent for minimum 4 hours. Journal of 100 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous exercent for minimum 4 hours. Journal of 100 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous exercent for minimum 4 hours. Journal of 100 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous exercent for minimum 4 hours. Journal of 100 AMP CONTINUOUS CURRENT. The source should		
D3 D	The source shall be Modular type of rack design in which components of the source and reference standard shall be placed. Cabinet dual have proteined for stifficient capacity to would temperature increase in side the cabinet dual favor proteined against a mission witch on frost or side panel. Emergency such shall be provided on bench. Protection against under Valage and over voltage of mains supply shall be provided.  Provision of limit Setting of output voltage and current  System shall be easily programmable to give reference conjust frequency independent of mains from 45 Hz to 65 Hz in steps of 0.01 Hz.  THE SYSTEM SHALL COMPRISE THE NIMIMAN OF:  Voltage Source Minimum 1000 VA per place, 200 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous current for minimum 450m Sacroes of 10% higher current is perforable.  3. place localistic current transformers 3 nor  There Place Reference Ment of 0.02 Accuracy class.  Camercing cables.  More Montaining Rade with Local Erzen display units.  Harmonic lingetion leading for Voltage Age Current source.  Scanning band and error display unit.		
132 133 134 134 135 137 138 139 131 131 131 131 131	The source shall be Modular type of tock design in which components of the source and reference standard shall be glassed. Cabinet shall have cooling fain of sufficient capacity to world importance increase in side the cabinet during normal operation. The source cabinet shall have protective outh terminal & mains switch on frost or side med. Emergency work shall be provided on bench.  Protection against under voltage and over voltage of mains supply shall be provided.  Protection against under voltage and over voltage and current  System shall be easily programmable to give reference output frequency independent of mains from 45 Hz to 65 Hz in steps of 0.01 Hz  THE SYSTEM SHALL COMPRISE MINIMUM OF:  Current Source Minimum 1000 VA per phase, 200 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous current for minimum 400 VAper phase, 200 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous current for minimum 400 VAP per planse, 200 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous current for minimum 400 VAP per planse, 200 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous current for minimum 400 VAP per planse, 200 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous current for minimum 400 VAP per planse, 200 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous current for minimum 400 VAP per planse, 200 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous current for minimum 400 VAP per planse, 200 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous current for minimum 400 VAP per planse, 200 AMP CONTINUOUS CURRENT. The source should have not overload at 200A continuous current transferrent a normal per transferrent planse planse and per planse and per planse and per planse planse and per planse and per planse and per planse planse and per planse and per planse and per planse and per planse and pe		
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533 534 535 535 536 537 538 538 538 538 538 538 538 538 538 538	The source shall be Modular type of rack design in which components of the source and reference standard shall be placed Cabinet dual have protective again the minimal and manimal cooling fain of sufficient capacity to would temperature increase in side the cabinet during normal operation. The source cabinet shall have protective against under Vadage and overvoltage of mains supply shall be provided Provision of limit Setting of output voltage and overvoltage of mains supply shall be provided Provision of limit Setting of output voltage and current System shall be easily programmable to give reference origin frequency independent of mains from 45 Hz to 65 Hz in steps of 0.01 Hz.  THE SYSTEM SHALL COMPRISE THE NIMIMIM OF:  Voltage Source Minimum 1000 VA per place; 200 AMP CONTINIOUS CURBENT. The source should have not overload at 200A continuous current for minimum 4 hours, beause of 10 % higher current is preferable.  There Place Reference Mear of 0.02 Accuracy class.  Cannoting Cables.  Most Montaing Rack with Local Extre display units.  Harmonic lingcionic micking for voltage Accuracy class.  Cannoting cables.  Most Montaing Rack with Local Extre display units.  Harmonic lingcionic macurement and report making Software  PC and Printer  10 VAO NE LIVE UPS with Local Extre display units.  Harmonic lingcionic macurement and report making Software  PC and Printer  10 VAO NE LIVE VI Sort & Local Extre display units.  Harmonic lingcionic macurement and report making Software  PC and Printer  10 VAO NE LIVE VI Sort & Local Extre display units.  Harmonic lingcionic macurement and report making Software  PC and Printer  10 VAO NE LIVE VI Sort & Local Extre display units.  Harmonic lingcionic macurement and report making Software  PC and Printer  10 VAO NE LIVE VI Sort & Local Extre display units.  Harmonic lingcionic macurement and report making Software  PC and Printer  10 VAO NE LIVE VI Sort & Local Extre display units.  Harmonic lingcionic macurement and report making Software  PC and Printer  10 VAO NE LIVE VI Sor		
533 533 534 535 536 537 538 538 538 538 538 538 538 538 538 538	The source shall be Modular type of rack design in which components of the source and reference standard shall be placed Cabinet dual have protective again the minimal and minimal cooling fain of sufficient capacity to world temperature increase in side the cabinet during normal operation. The source cabinet shall have protective against under Vadage and over voltage of mains supply shall be provided on brench. Protection against under Vadage and over voltage of mains supply shall be provided Provision of limit Setting of output voltage and current System shall be easily programmable to give reference conting frequency independent of mains from 45 Hz to 65 Hz in steps of 0.01 Hz.  THE SYSTEM SHALL COMPRISE THE NUMBRIM OF:  Voltage Source Minimum 1000 VA per place; 200 AMP CONTINUOUS CURBENT. The source should have not overload at 200A continuous current for minimum 4 hours, business of 100 Hz in place current is preferable.  There Place Reference Morar of 102 Accuracy class.  Carnecting cables.  Morar Montaing Rack with Local Exten display units.  Harmonic lingcionic mick facely for Voltage AC Current source.  Scanning boal and error display unit.  Harmonic lingcionic macurement and report making Software  PC and Printer  104 VAO NE LUF With 2 hours back up  Valtage source capability  A black of the comparison of voltage and current  Electronic protection against overload and abort circuit. LED indication for fault shall be provided on amplifier.  Distriction factor face from 100 YS.  Test voltage maps: 4 - 300 YG (Place-Vintaria) and 79-500 VfP place with place again surface.  Health of the comparison of voltage and current  Harmonic protection against overload and abort circuit. LED indication for fault shall be provided on amplifier.  Distriction factor face from 100 YS.  Test voltage maps: 4 - 300 YG (Place-Vintaria) and 79-500 VfP place again surfage.  Health of the control		
0.03 0.03 0.03 0.05 0.05 0.05 0.05 0.05	The source shall be Modular type of rack design in which components of the source and reference standard shall be placed. Cabinet shall have cooling fast of sufficient capacity to avoid temperature increase in side the cabout during normal operation. The source cabinet shall have protection against under Voltage and everyong of minim supply shall be provided on bench. Protection against under Voltage and everyong of minim supply shall be provided.  Provision of limit Setting of output voltage and carriest.  System shall be easily programmable to give reference output frequency independent of mains from 45 Hz to 65 Hz in steps of 0.01 Hz.  THE NOTES INSTAIL COMPRES. INSTAIL COMP		

16.8	VA rating & Burden :100VA		
	Accuracy Ratio Error 0.05% or better  1A to 200A-Phase angle error: 1 minute or better		
16.9	Accuracy ration error: 0.1% or better		
173	Below 1 A-Phase angle error: 4 minutes or better		
174	THREE PHASE REFERENCE METER OF 0.02 ACCURACY CLASS		
17.5	The class of accuracy of reference standard should be 0.02 % for active and reactive energies and independent of the measuring mode.		
17.6	Voltage range from 10-500 V ( Phase - neutral )		
17.7	Working Current range of reference standard should be 1 mA to 200 A Direct connected.		
17.8	Frequency OUTPUT/INPUT proportional to the power to calibrate reference standard against High or Lower precision reference standard.		
17.9	RS 232 serial communication port for communicating with PC		
17.10	Reference standard should have auto-range selection facility.		
117.11	Measuring modes :		
17.12	2 wire active & Reactive		
17.13	3 wire active & reactive & apparent mode		
17.14	4 wire active & reactive & apparent mode		
17.15	Frequency Range: 45 65 Hz Fundamental. Indicate harmonic measurement capabilities.  Accuracy of Parameters:		
17.16 17.17	Voltage: better than 0.01 % Current: : better than 0.01 %		
17.18	Power / Energy ( For active and reactive measurement )		
17.19	0.02 % or better at cos Ø / sin Ø =1		
1720	0.04% or better at cos Ø / sin Ø =0.5 , Phase Angle Accuracy 0.05 °		
17.22	0.1% or better for the range of 1mA to 50mA at cos Ø / sin Ø −1  Drift for individual parameters shall be defined clearly in the offer		
17.23 17.24	Temperature drift for voltage & current measurement shall be 5 PPM/°C or better. Define value of drift in the offer.		
17.25.1	Temperature drift for power measurement shall be 10PPM/K or better  The reference meter shall have following display parameters.		
17.25.2 17.25.3	True RMS value of each voltage & current input		
17.25.4	Phase angle between voltage / current and defined reference  Power factor of each phase, Waveform of voltage and current		
17.25.5 17.25.6	Active, reactive & apparent power of each phase		
17.25.7	Total active, reactive & apparent power  Phase Sequence		
17.258 17.259	Frequency		
1725.1	Integration time Facility to select integration time between 1 to 99 second		
17.25.12	Meter constant Vector Graphical disply on LCD or PC		
17.25.15	Representation of Harmonic voltage & Current in Bar Chart mode & THD		
	Reference Channel		
	The RSM shall have facility to select reference for phase angle measurement. Selection of reference shall be provided manually & automatically.		
17.25.15	Frequency output for calibration of reference standard:		
	Frequency output for cambration of reference standard:		
	This shall provide frequency output proportional to power to calibrate the reference standard against high precision reference standard. This		
	output shall be in commonly used BNC type socket.  BNC type socket is preferred for output.		
17.25.16	Frequency Input for calibration of substandard meters:		
	Frequency input connections shall be provided preferably with BNC socket to receive electrical pulses from substandard meters. It shall be possible to culibrate/ test substandard meters on offered system.		
18.1	CONNECTION CABLES:  All cables required to test 3 meters simultaneously in the following range and configuration shall be provided.		
i i			
18.2			
18.2	200A whole current three phase four wire 3 nos. of meters for direct connection.  Voltage connections of 3 meters		
182	Voltage connections of 3 meters.		
	200A whole current three phase four wire 3 nos. of meters for direct connection.  Voltage connection of 3 meters.  200A whole current three phase four wire 3 nos. of meters for ICT connection.  Voltage connections of 3 meters.		
	Voltage connections of 3 meters.  200A whole current three phase four wire 3 nos. of meters for ICT connection.  Voltage connections of 3 meters.  200A whole current three phase four wire 3 nos. of meters for thread through Meters.		
	Voltage connections of a meters.  20th whole current there phase from wire 3 nos. of meters for ICT connection.  Voltage connections of 3 meters.  20th whole current there phase from wire 1 nos of meters for thread through Meters.  Voltage connections of 3 meters.  Voltage connections of 3 meters.  Voltage connections of 2 meters.		
B3 B4 B5	Voltage connections of 3 meters, for wire 3 nos. of meters for ICT connection.  Voltage connections of 5 meters.  2004 whole current three plans four wire 3 nos. of meters for ICT connection.  2004 whole current three plans four wire 3 nos. of meters for thread through Meters.  Voltage connection of 3 meters.		
B3 B4 B5	Voltage connection of a meters.  200A whole current three phase four wire 3 nos. of meters for ICT connection.  Voltage connection of Inneters.  200A whole current three phase four wire 3 nos. of meters for thread through Meters.  Voltage connection of a meters.  100A CTP Copented three phases. Sour wise 6 or 3 nos. of meters  100A CTP Copented three phases. Sour wise for 3 nos. of meters  100A CTP Copented three phases. Sour wise for 3 nos. of meters  100A CTP Copented three phases. Sour wise for 3 nos. of meters  100A CTP Copented three phases. Sour wise for 3 nos. of meters  Voltage connection from bench to meter.		
182 183	Voltage connections of a fasters.  20th whole current these plans from wire 3 nos. of meters for ICT connection.  Voltage connections of 3 meters.  Voltage connections of 5 meters.  Voltage connection from bench to meter.		
183 184 185 186 187 187 188	Voltage connection of a meters.  20th whole current three phase from wire 3 nos. of meters for ICT connection.  Voltage connection of 3 meters.  20th whole current three phase for wire 1 nos of motors for thread through Meters.  Voltage connections of 3 meters.  Voltage connections of 5 meters.  Voltage connection from beach to note.  Voltage connection for the voltage SSS 1 sets.  METER MOUNTING RACK WITH ERROR DISPLAY UNIT		
18.2 18.3 18.4 18.5 18.6 18.7 18.8 19.9	Voltage connections of a fasters.  20th whole current these plans from wire 3 nos. of meters for ICT connection.  Voltage connections of 3 meters.  Voltage connections of 5 meters.  Voltage connection from bench to meter.		
18.3 18.4 18.5 18.5 18.5 18.6 18.7 19.1	Voltage connection of a meters.  20th whole current three phase from wire 3 nos. of meters for ICT connection.  Voltage connection of 3 meters.  20th whole current three phase for wire 1 nos of motors for thread through Meters.  Voltage connections of 3 meters.  Voltage connections of 5 meters.  Voltage connection from beach to note.  Voltage connection for the voltage SSS 1 sets.  METER MOUNTING RACK WITH ERROR DISPLAY UNIT		
18.3 18.4 18.5 18.5 18.5 18.6 18.7 19.1	Voltage connections of a meters.  2000 whole current these plans from wise 3 nos. of meters for ICT connection.  Voltage connection of 3 meters.  2000 whole current there plans for wise 1 nos. of meters for thread through Meters.  Voltage connections of 3 meters.  Voltage connection of 4 meters.		
18.2 18.3 18.4 18.5 18.5 18.5 18.7 18.7 19.7 19.1	Voltage connection of a meters.  200A whole current three phase four wire 3 nos. of meters for ICT connection.  Voltage connection of Snetters.  200A whole current three phase four wire 3 nos of meters for dread through Meters.  Voltage connection of 3 netters.  Voltage connection of 5 netters.  Voltage connection of 5 netters.  Voltage connection of 5 netters.  Voltage connection from brench to netter.  Voltage connection of the Otto. The phase meters. Connections from ICT for 3 Meters  Voltage connection from brench to netter.  Voltage connection of the for twing IRSS: 1 sets  Current connection such for twing IRSS: 1 sets  WITTER MOUNTING RACK WITTEREROR DISPLAY UNIT  The rack shall connist of a light weight aluminum frame for mounting of sensor heads, display devices and meters.		
93.2 93.3 93.4 93.5 93.7 93.7 93.7 93.7 93.7 93.7 94.7 95.7	Voltage connection of a meters.  200A whole current there plans from vise 3 nos. of meters for ICT connection.  Voltage connection of Snetters.  200A whole current there plans for vise 3 nos. of meters for thread through Meters.  Voltage connection of 2 netters.  Voltage connection of 5 netters.  Voltage connection from bench to netter.  Voltage connection of the plans - flow of 1 netters.  Voltage connection of the plans - flow of 1 netters.  Voltage connection of the plans - flow of 1 netters.  Voltage connection of the plans - flow of 1 netters.  Voltage connection of the for twinting IRSS 1 sets  Current cashes for twinting IRSS 1 sets  WITTER MOUNTING CACK WITTER IRSOR DISPLAY UNIT  The rack shall consist of a light weight aluminum frame for mounting of sensor heads, display devices and meters.  The meter mounting rack shall be provided with necessary number of BNC sockets for absolute measurement. The offered software shall have feelily to test the external and internal reference standards by using this BNC terminals those terminal shall be provided with necessary hardware. Necessary calleds shall be provided along with equipment to test IRS having frequency caripat on BNC sockets.  The meters mounting rack shall be provided along with equipment to test IRS having frequency caripat on BNC sockets.  The meters mounting rack shall be provided along with equipment to test IRS having frequency caripat on BNC sockets.		
18.2 18.3 18.4 18.5 18.5 18.5 18.7 18.7 19.7 19.1	Voltage connection of a Instern.  2000 whole current three plans from visit 3 no. of meters for ICT connection.  Voltage connection of 3 meters.  Voltage connection		
93.2 93.3 93.4 93.5 93.7 93.7 93.7 93.7 93.7 93.7 94.7 95.7	Voltage connection of a Instern.  200A whole current there phase four wire 3 nos. of meters for ICT connection.  Voltage connection of 3 meters.  200A whole current there phase four wire 1 nos of motors for throad through Meters.  Voltage connection of 2 meters.  Voltage connection of 3 meters.  METER MOUNTING RACK WITH ERROR DISPLAY UNIT  The rack shall consist of a light weight aluminum frame for mounting of sensor heads, display devices and meters.  The motor mounting rack shall be provided with necessary number of BNC sockets for absolute measurement. The offered software shall there facility to its the external and internal reference standards by using this INN terminals these terminal shall be provided with necessary unlaber of BNC sockets for absolute measurement. The offered software shall there facility to its the external and internal reference standards by using this INN terminals these terminal shall be provided with necessary salabra which be provided along with operature to the 125 a bring frequency capture in INN conceives and meters.  Current connection.		
19.2 19.3 19.4 19.5 19.6 19.6 19.6 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7	Voltage connections of a meters.  20th whole current there phase from wire 3 nos. of meters for ICT connection.  Voltage connections of 3 meters.  Voltage connection for 1 meters.  Voltage connection for 1 meters.  Voltage connection for 1 meters.  Voltage connection from bonds to noter.  Voltage connection from bonds to noter.  Voltage connection from bonds to noter.  METER MOUNTING RACK WITH ERROR DISPLAY UNIT  The rack shall consist of a light weight alminium frame for mounting of sensor heads, display devices and meters.  The notern mounting rack shall be provided with necessary number of INV nockers for absolute renomination of the provided with necessary methors of the provided on the provided with necessary methors of the provided on the provided with necessary methors of the provided on the provided only with equipment to see IRS having frequency cuprat on BNC nocker.  Emergency better thus shall the system shall be available on one accessible point.  Current connections.		
19.2 19.2 19.4 19.4 19.5 19.6 19.6 19.7 19.1 19.1 19.2 19.2 19.2	Voltage connection of a Instern.  200A whole current there phase four wire 3 nos. of meters for ICT connection.  Voltage connection of 3 meters.  200A whole current there phase four wire 1 nos of motors for throad through Meters.  Voltage connection of 2 meters.  Voltage connection of 3 meters.  METER MOUNTING RACK WITH ERROR DISPLAY UNIT  The rack shall consist of a light weight aluminum frame for mounting of sensor heads, display devices and meters.  The motor mounting rack shall be provided with necessary number of BNC sockets for absolute measurement. The offered software shall there facility to its the external and internal reference standards by using this INN terminals these terminal shall be provided with necessary unlaber of BNC sockets for absolute measurement. The offered software shall there facility to its the external and internal reference standards by using this INN terminals these terminal shall be provided with necessary salabra which be provided along with operature to the 125 a bring frequency capture in INN conceives and meters.  Current connection.		
19.2 19.3 19.4 19.5 19.6 19.6 19.6 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7	Voltage connections of a meters.  20th whole current there phase from wire 3 nos. of meters for ICT connection.  Voltage connections of 3 meters.  Voltage connection for 1 meters.  Voltage connection for 1 meters.  Voltage connection for 1 meters.  Voltage connection from bonds to noter.  Voltage connection from bonds to noter.  Voltage connection from bonds to noter.  METER MOUNTING RACK WITH ERROR DISPLAY UNIT  The rack shall consist of a light weight alminium frame for mounting of sensor heads, display devices and meters.  The notern mounting rack shall be provided with necessary number of INV nockers for absolute renomination of the provided with necessary methors of the provided on the provided with necessary methors of the provided on the provided with necessary methors of the provided on the provided only with equipment to see IRS having frequency cuprat on BNC nocker.  Emergency better thus shall the system shall be available on one accessible point.  Current connections.		
19.2 19.3 19.4 19.5 19.6 19.6 19.6 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7	Voltage connection of a Instern.  2004 whole current there phase from vise 3 nos. of meters for ICT connection.  Voltage connection of 3 meters.  2004 whole current there phase for wire 1 nos of motors for thread through Meters.  Voltage connection of 2 meters.  Voltage connection of 3 meters.  Voltage connection of 1 meters.  Voltage connection of 1 meters.  Voltage connection of 1 meters.  METER MOUNTING RACK WITH ERROR DISPLAY UNIT  The rack shall consist of a light weight aluminum frame for mounting of sensor heads, display devices and meters.  The meter mounting rack shall be provided with necessary number of BNC sockets for absolute measurement. The offered software shall have facility is tox the external and attental reference standard by using the INNC terminals these terminal shall be provided with necessary unlaborar. Necessary solds shall be provided along with opinional to us 1828 along ficquinosy copies on INNC sockets.  Emergorys bettom is but the system shall be provided along with opinional to us 1828 along ficquinosy copies on INNC sockets.  Current connections.  Current connections shall be unabble on de-sk of breach with address own shall be provided on front desk.  XANNING HEAD AND ERROR INDICATION UNIT  Plateofecter's scanning head for each position snitable for reading the marking from the disc of Ferraris wheel meters without opening the		
19.2 19.3 19.4 19.5 19.6 19.6 19.6 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7	Voltage connection of a Instern.  2000 whole current three plans from visit 3 no. of meters for ICT connection.  Voltage connection of 3 meters.  METER MOINTING RACK MYTHE ERROR DISPLAY UNIT  The rick shall consist of a light weight aluminum frame for mounting of sensor heads, display devices and meters.  The meter mounting rack shall be provided with necessary number of BNC sensor heads, display devices and meters.  The meter mounting rack shall be provided with necessary number of BNC terminals hose terminal shall be provided with necessary button to sharl the system shall be available and any accompanies to are 18th being frequency capacity on BNC sended.  Emergency button to sharl the system shall be available and any accompanies to are 18th being frequency capacity on BNC sended.  Emergency button to sharl the system shall be available and any accompanies to are 18th being frequency capacity on BNC sended.  Emergency button to sharl the available of any available on the 18th being frequency capacity on BNC sended.  KANNING BRAD AND ERROR INDICATION UNIT		
19.2 19.3 19.4 19.4 19.2 19.2 19.2 19.3 19.3 19.3 19.3 19.4	Voltage connections of a Instern.  2000 whole current these plans for wise 3 no. of meters for ICT connection.  Voltage connection of Posters.  Voltage connection of Posters.  Voltage connection of Posters.  Voltage connection of a meters.  Voltage connection of Posters.  Voltage connection of Posters.  Voltage connection of Meters.  Voltage connection of the forter with the Voltage Posters of		
19.2 19.3 19.4 19.4 19.2 19.2 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3	Voltage connection of a Instern.  2000 whole current three plans from visit 3 no. of meters for ICT connection.  Voltage connection of 3 meters.  METER MOINTING RACK MYTHE ERROR DISPLAY UNIT  The rick shall consist of a light weight aluminum frame for mounting of sensor heads, display devices and meters.  The meter mounting rack shall be provided with necessary number of BNC sensor heads, display devices and meters.  The meter mounting rack shall be provided with necessary number of BNC terminals hose terminal shall be provided with necessary button to sharl the system shall be available and any accompanies to are 18th being frequency capacity on BNC sended.  Emergency button to sharl the system shall be available and any accompanies to are 18th being frequency capacity on BNC sended.  Emergency button to sharl the system shall be available and any accompanies to are 18th being frequency capacity on BNC sended.  Emergency button to sharl the available of any available on the 18th being frequency capacity on BNC sended.  KANNING BRAD AND ERROR INDICATION UNIT		
19.2 19.3 19.4 19.4 19.4 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7	Voltage connections of a meters.  20th whole current there phase from wire 3 nos. of meters for ICT connection.  Voltage connections of 3 meters.  20th whole current there phase for wire 1 nos of meters for ICT connection.  Voltage connections of 3 meters.  Voltage connection for 1 meters.  Voltage connection of 3 meters.  Voltage connection for 1 meters.  Voltage connection for 1 meters.  Voltage connection from beach to meter.  Current connection from beach to meter.  Voltage connection from beach to meter.  METER MOUNTING RACK WITH ERROR DISPLAY UNIT  The rack shall consist of a light weight alminium frame for mounting of sensor heads, display devices and meters.  The next mounting rack shall be provided with recovery number of INV neckers for absolute measurement. The offered software shall have followed to the provided of the provided with recovery number of INV neckers for absolute measurement. The offered software shall have followed to the provided of the provided with necessary analyses of INV neckers for absolute measurement of the offered software shall have followed to the provided on from decks.  The mean mounting rack shall be provided with necessary number of INV neckers for absolute measurement of the offered software shall have followed to the provided on front decks.  The mean mounting rack shall be available on deck of the necessary necessary of the necessary output on BNC nocker.  Emergency between the absolute provided done with engineering accessable points.  Current connections.  Scannel connections with Examine the necessary while the start of the necessary while INV necessary and the provided on front deck.  Voltage connections is all the available on deck of beech with safety connections.  Scannel connections with Examine the safe absolute have facilit		
19.2 19.3 19.4 19.4 19.2 19.2 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3	Voltage connections of a meters.  2000 whole current there plans from wise 3 nos. of meters for ICT connection.  Voltage connection of 3 meters.  2000 whole current there plans for wise 2 nos. of meters.  Voltage connection of 3 meters.  Voltage connection of 5 meters.  Voltage connection from breach to neare.  Current connection of 5 meters.  Voltage connection from breach to neare.  Current connection of the free from 1 meters of 1 meters.  Voltage connection from breach to neare.  Current connection of the free from 1 meters.  METER MOINTING RACK WITH ERROR DISPLAY UNIT  The rack shall consist of a high weight aluminum frame for mounting of sensor heads, display devices and meters.  The meter mounting rack shall be provided with necessary number of BNC sockets for aboulter measurement. The offered software shall have feelily to test the external and internal reference standards by using this BNC terminals due to ten provided with necessary hardours. Necessary calleds and internal reference standards by using this BNC terminals due to ten BNC socket.  Emergency batton to shall the system shall be available at easy accombing points.  Lecturest connections.  All voltage connections thall be variable and easy accombine points.  Current connections that the variable on deal of been with safety connector.  SANNING IBLAD AND ERROR ROBCATION UNIT  Photodectric seaming head for each position sainable for reading the making from the date of Ferraria wheel surrens while of polytopy.  Mounting arrangement with the variable on deal of been with safety connector or while the manufactory with LED & LED Dudgey.  Mounting arrangement with LED & LED Dudgey.		
19.2 19.3 19.4 19.4 19.2 19.2 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3	Voltage connections of a Instern.  2000 whole current there plans four wire 3 no. of meters for ICT connection.  Voltage connection of Posters.  2000 whole current there plans four wire 1 no. of meters for ICT connection.  Voltage connection of a meters.  Voltage connection of 3 meters.  Voltage connection of meters.  Voltage connection of the fort wire IRSS 1 not the Connection from ICT for 3 Meters  Control calculate for Most. These plans meters. Connections from ICT for 3 Meters  Voltage connection only for testing IRSS 1 not the Connection of Interest.  Voltage connection only for testing IRSS 1 not the Connection of Interest.  Voltage connection of the fort testing IRSS 1 not the ICT for 3 Meters  INTER MOINTING RACK WITH ERROR DISPLAY UNIT  The rack shall consist of a light weight aluminum frame for mounting of sensor heads, display devices and meters.  The meter mounting rack shall be provided with necessary number of IRNC terminals done terminal shall be provided with necessary hardown by the ICT for 1 meters of IRNC interest and the ICT for 1 meters with the ICT for 1 meters without provided on IRNC secket.  Imagency batton to shart the system shall be available at easy accessible points.  Current connection:  Incurrent connection and the system shall be available for 200A continues rating shall be provided on front deck.  Voltage connections shall be available on deck of Proches with safety connector.  MCANING HADA AND ERROR INDICATION UNIT  Photoelectric seasoning had for each position suitable for reading the marking from the disc of Ferrain wheel nectors without opening the review of the starts's Mans scanner who had the work facility to move vertical, berinnella of the backward directions.  Meters for the ICT of the		
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20.29		Phase angle, power factor symmetrical or unsymmetrical star system		
20.30		Total power factor		
20.31		Individual phase power(Active, Reactive and Apparent power)		
29.32		Total power(Active, Reactive and Apparent power)		
20.33		Frequency		
20.34		Phase sequence		
20.35		Measurement Mode		
20.36		Vector display		
21	Documentation	The bidder shall submit detailed General arrangement drawing for Source, Meter Mounting Rack with different terminal required for		
		voltage and current circuit connection,, Fixing arrangement of ICT and connection scheme used for ICT		
21.1				
21.1		Wiring during testing and proposed installation scheme of complete system and leads and connectors provided to mount any number of		
		meters on the Meter Mounting Rack along with their offer. In absence of this offer will be liable to rejection		
22		The test system will be installed with UPS. The system shall be able to function on power supply of ON line UPS.		
23		following documents shall be supplied along with each test system.		
П		1. Operating manual of each components like reference standard, amplifier, etc.		
$\vdash$		Operating manual of each components like reference standard, amplifier, etc.      Wiring diagram		
$\vdash$		2. Wring diagram 3. Service manual		
$\vdash$		3.Service namon		
		Calibration certificate from the laboratory accredited as per ISO/IEC/17025.		
$\vdash$		S. Test certificate of complete test system		
1 1		Procedure to validate software shall be provided		
24	Installation and	Procedure to valuate software saint or provided		
	Commissioning	The supplier shall be responsible to install & commission the meter test equipment at the purchaser location. The supplier shall submit the		
25	PC	layout plan, installation proposal and electric supply requirements within 4 weeks after receiving the purchase order  Shall be supplied with configurationsas- Colour Monitor: SVGA 18.5" LCD		
$\vdash$		Pentium Processor: 8th Generation Intel core i5 Processor. 2 TB HDD. 8 GB SD RAM		
$\vdash$				
ш		Ports (Minimum): 2 serial, 2 USB,1 parallel and Ethernet100, Mbps(For LAN & Internet)		
		Operation System: Windows latest		
		MAKE - HP/DELL		
$\vdash$		Laser Printer		
26	UPS	10 kVA ON Line UPS with 2 hours back up shall be supplied		
1 1		Make – APC, Tata Libert, Schneider, POWER ONE, Numeric		
27		ADDITIONAL ACCESSORIES		
27.1				
27.2		Scanner 2 nos EXTRA		
		Diodes Rectifire set of 220 A( For testing DC & Even Harmonics test); with connecting cables to meters 1 SET EXTRA		
		Any other spare parts require to maintain the system		
28				
		PN: 1. A detailed technical catalogue/literature/pamphlet and any other technical details shall be sent in hard copy in a sealed cover super scribing enquiry number and due date so as to reach within the due date and time.		
		2. Letter of authorization issued by the foreign Principal shall also be sent by the Indian agents who have offered on their behalf.		
-		1	 	 

PN 1 More statement of "Compiler" do not suffice the requirement. The details of technical parameters in proof of CPEI requirements shall be furnished along with technical write-up, catalogues, brouchers, firstnatures, plumphates, or any other documents shall be submitted in hard copy along with technical bid.

2) Collections provider confirmation regarding the rediness of the equipment insochiatory for the PDI shall be communicated in writing at Poly in advance.

Address: Joint Direction Purhassis, Perhass Authority,
Central Power Research Institute, Covindents, Hospiel-GUID.

Central Power Research Institute, Covindents Hospiel-GUID.

Central