

**Tender Document for
Supplying, Installing, Testing and Commissioning of
Test Equipment and Tools for
TSS Meter Plant
(Comprehensive Package)**

I. Telephone Shilpa Sangstha Ltd. (TSS), a state owned company intends to have the following equipments and tools to enhance the facility of its Meter Plant for assembling standard and proven quality digital energy meters using state-of-the-art technology:

- a. **Three Phase Meter Test Bench**
- b. **Burden and Puncture Test Bench for Three Phase Meters**
- c. **AC Voltage Tester for Three Phase Meter**
- d. **Installing, Testing and commissioning**

II. The above mentioned equipment and tools shall be capable to test the assembled three phase digital energy meters of Accuracy Class up to 0.2, as per the requirement of the relevant IEC/BDS. The Three Phase Digital Energy Meters shall be assembled by the components that are appropriate according to the approved specifications of the distribution utilities of Bangladesh and of International standards. This tender is for supplying, installing, testing and commissioning of the equipment and tools including training and technological support and transfer of required knowledge to the working manpower of TSS. A team of TSS will be attached with the supplier's installation team to acquire the knowledge of operation and maintenance till acceptance certificate of the equipment be issued by the representative of TSS after successful completion of the acceptance tests. The Tender Document has been divided into the following 5 (Five) parts:

- a. Part-I: General Information
- b. Part-II: Terms and Conditions
- c. Part-III: Technical Particulars/ Information
- d. Part-IV: Price Schedules
- e. Part-V: Forms: Annexure – 1 to Annexure – 10

Part – I: General Information:

1. The Prospective bidders are to submit their offers in the following 2 (two) separate sealed envelopes as comprehensive package for supplying, installing, testing and commissioning the equipment and tools complete and subsequently assembling the three phase meters with components supplied as per the required specifications of the distribution utilities and international standards:

- a. Technical Offer.
- b. Financial Offer.

The Bidders may visit the site to prepare their tender Document. On completion of the evaluation of "Technical Offer", the "Financial Offer" of only the technically responsive bidders will be open and evaluated for the financial competitiveness. After completion of evaluation of the "Financial Offer" the lowest evaluated responsive bidder will be selected on the basis of both the technical and financial competitiveness.

2. Bidders shall provide the detail explanation of the technical matters if deem necessary with reference to relevant pages of their offer/ supporting catalogue/ brochure/ certificates/ documents etc.
3. The Offers shall be addressed to the Managing Director, Telephone Shilpa Sangstha Ltd. Tongi, Gazipur, Bangladesh.
4. One tender box shall be kept in the TSS factory/ office at Tongi, Gazipur and another tender box in the office of the Company Secretary, TSS, Room No.7, Dak Bhaban (PMG Building) Dhaka -1000 for dropping sealed Tenders. The Bidder shall drop their offers in 1 (one) sealed envelopes addressed as mentioned containing 2 (two) separate sealed envelopes clearly marked as "Technical Offer" and "Financial Offer". The tenders shall have to be **dropped on 28.10.2010 up to 11.00 A.M (local time)** in any one of the tender boxes kept at the above mentioned 2 (two) places.
5. The offers are to be submitted in sealed envelopes (one "Original" and two "copy" of the Original). All the papers, documents, certificates, Bid Security, technical specifications, price quotation, as well as signed tender documents are to be submitted in two separate envelopes marked "**Technical Offer**" and "**Financial offer**" with name and address of the bidder clearly marked on it.
6. Both the tender boxes at the above 2 (two) places shall be closed at the same time just after 11.00 A.M (local time) on the day of dropping the tender. After closing the tender box kept in the office of the Secretary, TSS, Room No. 7, Dak Bhaban (PMG Building), Dhaka-1000 the unopened sealed box shall be brought to TSS office at Tongi, and then both the tender boxes shall be opened at 2.30 P.M (local time) on the same day of dropping in TSS, Tongi, Gazipur, in presence of the bidders or their authorized representatives, if they remain present. Immediately after opening of both the above tender boxes the envelope(s) of the "Technical Offer" will be opened and details of the bidders with Bid Security will be checked and noted.
7. Offers may be submitted by the reputed manufacturers through their authorized Local Agents/ distributors/ representatives in Bangladesh. In that case authenticated documentary proof in this regards has to be submitted with the "Technical Offer".
8. The Bidders shall pay a Bid Security with their Technical Offer for an amount of Taka 1,50,000.00 (Taka one lac fifty thousand) only in the form of Pay Order/ Bank guarantee (as per enclosed form) in favour of Telephone Shilpa Sangstha Ltd., issued by any Scheduled Bank in Bangladesh, or from any reputable foreign Bank duly endorsed with full obligation and liabilities by a Schedule Bank in Bangladesh located in Dhaka. The Bid Security must be with a validity period of minimum 120 **(one hundred and twenty) days** from the date of submission of the tender. The Bid Security will be liable to forfeiture if the Tenderer fails to accept any contract within the validity period of the Bid. The Bid Security would be returned to the unsuccessful bidder within 28 (twenty-eight) days of placing the order against this tender. The successful Tenderer's Bid Security will be returned after receiving Performance Guarantee (PG) as per Clause 24 of this tender schedule, otherwise this Bid Security will be forfeited for non-submission of PG. Any of the above mentioned Bid Security will not accrue any interest in favour of any of the bidders. Offer without requisite Bid Security will straightway be rejected and will not be considered for evaluation on any ground whatsoever.
9. Bidders failing to comply with all the required criteria will be disqualified.

10. All Prices will be quoted in US Dollars. FOB price and freight charge should be shown separately as mentioned in the Price Schedule.

11. The successful bidder/ principal/ manufacturer have to meet the following criteria/ terms/ conditions.

- a. Shall have sufficient proven experience for supplying and assembling similar type of plants within the last 3 (three) years.
- b. Shall submit Manufacturer's Authorization Certificate for the offered items.
- c. Country of manufacture/ origin shall be certified for the offered items by the Manufacturer(s).
- d. Shall submit the catalogue and necessary data sheet in support of the offered product(s).
- e. Shall submit at least 2 (two) certificates from the users using similar type of equipment within the last 5 (five) years with satisfaction.
- f. The offer shall remain valid for 90 (ninety) days from the date of submission of the Bid.
- g. Shall submit the "original" purchase receipt of the Tender Document with the "Original" of the "Technical Offer" and its copies with the each "copy" of the "Technical Offer".

Part – II: Terms and Conditions:

12. Compliance of Tender Specifications:

All terms and conditions mentioned in technical specification should be treated as part of this tender and compliance to Technical Specification is mandatory. Equipment to be supplied must fulfill all the requirements of this Technical Specification and the purpose of TSS.

13. Compliance Statement:

Compliance against each of the features/specifications must be explained in details and supported by supplied original brochure/catalogue with specific cross-reference to particular item as and where deemed required.

14. Quality of Products:

All hardware, components and software products of all the related items/ equipment, tools etc., included under this tender document must be brand new and of well-reputed brand. Refurbished product/ item will not be acceptable.

15. Qualification and Experience Criterion:

The manufacturer of the major item shall have a minimum manufacturing experience of 10 (ten) years with adequate supply records. The evidence in this

regards shall have to be submitted with “Technical Offer”. The major equipment must be of proven international standard and shall have appropriate ISO certification.

16. Project Implementation Plan:

Shipment of all items is to be completed **within 60 (sixty) days** from the date of signing the contract. All Machine/equipment/Tools under this tender is to be supplied, installed, tested and commissioned in all respect and handed over to TSS for its commercial operational by the manufacturer’s in Dhaka within 30 (thirty) days after receiving by TSS or within 90 (ninety) days after signing the contract whichever is earlier.

17. Complete offer:

- a. Tenders lacking fulfillment of any sections of this tender are liable to be rejected. If the Tenderer/ Bidder feels necessity of any further information or clarifications in respect of technical specifications or other terms and conditions of the tender, may get it clarified in writing before submission of the tender/ bid. Any claim what so ever raised later on after submission of the tender/ bid will not be entertained.
- b. Any amendment/ change or an alternative proposal by the Tenderer/ Bidder shall not be accepted and the proposal so proposed/ submitted shall be rejected without assigning any reason thereof.

18. Pre-Shipment Inspection (PSI):

PSI program may be arranged by the supplier/ local agent/ manufacturer at the manufacturer’s premises/ plants before shipment. All expenses for travel including air ticket(s), accommodation and food for TSS representative are to be born by the supplier/ local agent/ manufacturer.

19. Expenditure of Supplier’s/ Manufacturer’s Engineer:

All expenditure on travel, food, accommodation and transportation of the supplier’s/manufacturer’s engineers/technicians for installation, test and commission are to be borne by supplier/ manufacturer.

20. Penalty for Failure:

Failure to supply the contracted plants/ equipment/ tools within the contracted time will compel TSS to cancel the contract with necessary legal action without any compensation to the supplier/ manufacturer(s).

21. Firm and Fixed’ Rules:

The cost of the item is to be “**Firm and fixed**”. No increase of the price at any stage of this tender process and within the contract period will be accepted by TSS.

22. Warranty/Guarantee:

a. Warranty Service:

Minimum 12 (twelve) months warranty of all products and services from **the date of final acceptance issued by TSS** is to be provided.

b. Guarantee for Spare Support:

Assurance and guarantee certificate for the spares and required maintenance or replacement support are to be provided by the manufacturer of the item/ equipment for a period of at least 10 (ten) years is to be provided in the Technical Offer.

c. Guarantee for Expected Life:

Expected life of the items/ equipment mentioned in tender document should not be less than 10 years. The supplier is to provide in the Technical Offer a guarantee certificate to this effect from the original manufacturer of items/ equipment.

23. Payment Terms:

Payment will be made through irrevocable LC with schedule bank in Bangladesh and negotiating Bank as recommended by the Tenderer/ Supplier/ manufacturer. The payment terms will be as follows:

- a. 75% of the C&F Value of the goods shall be released on submission of the following documents:
 - i. Bill of lading
 - ii. Invoice
 - iii. Packing note
 - iv. Factory Acceptance Test Certificate by the buyer at seller's site
 - v. Warranty certificate
- b. 25% of C&F value of the equipment payment shall be released on production of acceptance certificate from consignee after completion of the installation and acceptance.
- c. 100% PSI costs shall be released after receiving the PSI program by TSS.
- d. 100% of the Training cost shall be released on successful completion of the training at the site to be certified by TSS.
- e. 100% of the Installation cost will be released after the successful completion of the installation, testing and commissioning issued by TSS.

24. Performance Guarantee (PG):

Successful Tenderers/ Supplier/ Manufacturer shall pay a Performance Guarantee (PG) equivalent to 5% (five percent) of the total C&F value of the Plants/ Equipment/ Tools/ Materials within 20 (twenty) days from the issue of Notification of Award (NOA), in the form of Bank Draft/ Pay Order/ irrevocable Bank Guarantee (proforma enclosed) from any scheduled bank in favour of Telephone Shilpa

Sangstha Ltd., and payable at Dhaka for the due diligent and faithful observance and performance of all terms and conditions of the Tender Document. The validity of the PG shall be for a minimum period of 12 (twelve) months from the date of acceptance by TSS. This PG will not accrue any interest in favour of the tenderer/ manufacturer.

25. Cost of Letter of Credit

All Bank charges in respect of Letter of Credit (LC) outside Bangladesh are to be borne by the tenderer/ manufacturer. Any change for amendment requested or required subsequently by the tenderer/ manufacturer is to be borne by them.

26. Insurance :

Insurance of goods under contract from the time these are loaded on board the ship/ aircraft in the supplier's country, till these are unloaded at consignee's premises shall be arranged and the cost shall be borne by the purchaser (TSS) before shipment through **Sadharan Bima Corporation, 24-25, Dilkusha C/A, Dhaka-1000, Bangladesh.**

27. Signatory of the Price Quotation:

The Schedule of Price Quotation in Taka/ US Dollars shall be duly signed by the Tenderer/ manufacturer giving name, designation and official seal of the signatory.

28. Price Evaluation:

For the price evaluation purpose the quoted prices in US Dollars will be considered.

29. Price Corrections for Errors:

In case of any confusion in copies of the offers the original offer will prevail. In case of any arithmetic errors in the amounts noted in the price Schedule the unit price will prevail and corrections will be made accordingly. If the Price offered by the Bidder is disclosed in any form in the Technical Offer the Tender will be rejected.

30. Offer by Fax/ Courier:

Fax offers or offers submitted by mail/ courier are not acceptable. Down loaded copy of the offer is also not acceptable. All offers are to be submitted as one "Original" and two "copies" of the original in separate sealed envelopes clearly marked as "Original" and "Copy" for both the "Technical Offer" and "Financial Offer".

31. Conditional Offer:

Conditional offer or alternative offer will not be accepted.

32. Authorization Certificate:

Authorization certificate/ letter issued by the manufacturer has to be signed giving name, designation & official seal and to be submitted in original with the “original” of the “Technical Offer” and copies with “Copy” of the “Technical Offer”.

33. More than One Offer:

If any Principal/ manufacturer give more than one offer through more than one local agent/ bidder, then all the offers of that particular principal/ manufacturer/ tenderer will be treated as rejected.

34. Date of Manufacture:

All the offered item/equipment shall be brand new, latest model of production and not produced before 2009.

35. Country of Origin/Manufacturing:

Country of Origin as well as manufacturing/assembling of all items is to be mentioned in the Schedule of Price Quotation.

36. Packing:

All the equipment, tools, accessories and goods shall be suitably packed in order to avoid damage during transit or handling. Each package shall prevent ingress of moisture and dust and cushioned with a suitable material to prevent damage due to shocks during transit. The lid of the package may be suitably sealed. The packages shall be properly sealed against accidental opening in transit. The packages/ packing cases may be marked to indicate the fragile nature of the contents.

All packages imported are liable to be opened for Customs examination and packing shall therefore be designed to facilitate opening and repacking thereafter. Each package shall have the following information printed on it in bold letters.

- Name of the supplier
- Port/ Place of loading
- Port/ Place of destination
- Name of consignee
- Contract number
- Brief description of stores
- Number of packages
- Gross and net weight
- Package measurements

In addition, each package shall be clearly marked or stenciled in red on two sides. The shipping mark to be inscribed is shown below.



On the other two sides arrow marking with the wording “THIS SIDE UP” and “FREGILE” shall be clearly marked or stenciled to indicate the face of the package to be kept upward.



THIS SIDE UP

FREGILE

37. Manuals/Documents:

Suppliers/ manufacturer shall supply operational and maintenance manuals of all equipment/ items quoted in the offer in English along with a soft copy in a CD (compatible version: MS Word/ PDF).

38. Fast Moving Spare Parts:

Supplier/ manufacturer shall provide a list of Essential backup spares/ items (critical and fast moving) as deemed fit and required for the smooth commercial operation of the plant with price and quantity required for two years beyond warranty periods.

39. Training:

Both overseas and onsite training has to be provided by the supplier/ manufacturer to the technicians and engineers on operation and maintenance. Supplier/ manufacturer have to mention the period of such required trainings. The overseas and local training costs shall include required air tickets, lodging, food and training material/premises is to be quoted in the financial offer. The proposed training schedules and syllabus are to be submitted while signing the contract after mutual discussion with TSS during the contract negotiation period.

40. Installation and Acceptance:

- a. The installation of all the mentioned equipment will be on TURN KEY basis. It will include installation, testing, commissioning and commercial operation of the items/equipment along with its all related facilities. After satisfactory trial run, the supplier/ manufacturer shall carry out acceptance check of the system in presence of TSS Team. TSS Team may also carry out acceptance check during acceptance of the system.
- b. The system is to be commissioned and handed over to TSS in full operational condition. If the system is found unsatisfactory, acceptance check will be held up till the equipment is corrected by the supplier/

manufacturer. Necessary rectification/replacement of the equipment, if needed during acceptance check, is to be completed within 01 (one) month without any additional cost to TSS. However, if any defect occurred during carrying out the acceptance check by the TSS team, the cost is to be reimbursed by TSS.

c. Installation cost is to be quoted separately, if required.

41. Liquidated Damage:

Following clause will be included in the contract:

a. In case the supplier/ tenderer/ manufacturer fails to complete shipment within the schedule of shipment mentioned in the contract, the purchaser shall have the right to impose and recover liquidated damages at the rate of 1% of the value of any stores which the supplier has failed to deliver for each week or part of a week subject to maximum of 10% of the total contract value.

b. Should the delivery of the materials be delayed due to causes such as labor strikes, factory closure, fire, war, dock strike etc. to be termed as "FORCE MAJEURE" beyond the reasonable control of the suppliers/ tenderer/ manufacturer, liquidated damage will not be charged, however the delay shall have to be supported by documentary evidences from appropriate authorities.

42. Rejection Clause:

The tender shall be rejected as per the conditions of rejections mentioned in any Clauses in the Tender Document and for the following:

- i. The requisite Bid Security is not provided with the Technical Offer.
- ii. The price is disclosed in any form other than in the Financial Offer.
- iii. The Guaranteed Technical Particulars are not filled in.
- iv. More than one Tender submitted by any Tenderer/ manufacturer.
- v. Insufficient experience or Incomplete Offers.
- vi. Original receipt of purchase of Tender Document not submitted with the "Technical Offer".

43. Arbitration:

All legal dispute of whatever kind arising out of the contract concluded between the parties including disputes regarding validity of contract shall be settled wherever possible, amicably with the inclusion of the ordinary Court of law of the People's Republic of Bangladesh as per the Bangladesh Arbitration Act 2001 (1 of 2001).

44. Methodology for the Assembling and Production Plan:

A write-up describing the methodology for the procurement of components, assembling, quality control, technical and logistic supports, future development, market share and other relevant factors are to be provided with the Technical Offer to inform the salient features of profitability of the procurement.

45. Acceptance of the Tender:

a. If the Tenderer/ manufacturer deems reasonable to include any required equipment/ accessories/ goods, without which the smooth functioning of the assembly plant will hamper, then he may indicate the same with detail reasoning and specifications, and include these as separate sheets in the “Technical Offer” as an optional part. The Tenderer/ manufacturer shall also quote the prices of these items, if any, in a separate price sheet and include the same in the sealed “Price Offer”. The quoted prices shall be valid for a period of 12 (twelve) months from the date of submission of the Tender.

b. The Tenderer shall submit only the “Price Schedule” and the “Price Proposal Sheet” as the “Financial Offer” of the tender.

c. TSS does not pledge himself to accept the lowest or any tender and reserves the right of accepting the whole or any part of the tender or portion of the quantity offered or reject any or all the tenders without assigning any reason whatsoever.

Part – III: Technical Particulars/ Information:

46. Technical Specifications/ Particulars of Three Phase Meter Test Bench:

Tender No. TSS/FP/TSS Meter Plant/2010/12.

46.1 SCOPE

This specification shall cover design, manufacture, supply, test and commission of Three Phase Electric Digital/ Analogue Energy Meters of minimum accuracy of Class 0.2.

46.2 SERVICE CONDITIONS

The equipment to be supplied against this specification shall be suitable for satisfactory continuous operation under the following tropical conditions.

Sl. No.	Condition	Specification
1	Maximum ambient temperature (°C)	50
2	Maximum daily average temperature (°C)	35
3	Maximum relative humidity (%)	95
4	Maximum annual rainfall (mm)	1500
5	Maximum altitude above mean sea level (meters)	200
6	Environmental condition	Humid tropical climate with heavily polluted atmosphere

46.3 APPLICABLE STANDARDS

The equipment and components supplied shall generally be in accordance with the latest editions/ amendments of the relevant standards to be mentioned by the bidder/ manufacturer

46.4 REQUIREMENTS

The equipment to be supplied against this specification shall meet the requirements stipulated in the document and specified as below.

46.4.1 Electrical Requirements

The Meter Test Bench with Auto-Calibration System shall be manufactured by internationally reputable manufacturer having minimum experience of 10 (ten) years, over which will be considered as an additional merit. The test bench shall have the functions of “Basic Error Test”, “No Load Test”, “Starting Test”, and “Calibration Tolerance Test” with the following general features:

SI. No.	Item Description	Requirement
01.	Accuracy class:	0.1
02.	Standard Energy Meter Accuracy class:	0.05
03.	Output Voltage: Range: Fine adjustment (minimum):	0-240 V 0-120 % 0.01 %
04.	Output Current: Fine adjustment (minimum):	0-200 A 0.0001 A
05.	Range of Phase: Fine adjustment (minimum):	0-360° 0.1°
06.	Frequency: Fine adjustment (minimum):	45 Hz – 65 Hz 0.1 Hz
07.	Waveform distortion coefficient voltage/current:	< 0.5 %
08.	Stability of Output Power (voltage, current, power factor):	<0.05 %
09.	Output capacity: Current: Voltage:	800 VA (120 A) 400 VA
10.	Load: Capacitance, Resistance, Inductance	≤ 4 μF
11.	Starting Current Output (minimum): Accuracy:	1 mA 5 %

SI. No.	Item Description	Requirement
12.	Starting Power: Accuracy:	10 %
13.	Numbers of calibrated Energy Meters:	24 & 48
14.	Input Power: Voltage: Frequency:	240 V, AC \pm 10 % 50Hz \pm 3 %
15.	Maximum Power Consumption (24 Meters):	1500 VA
16.	Test Result logging facility	Computerized

46.4.2 Mechanical requirements

The supplied equipment shall be made of unbreakable, high grade, fire resistant, reinforced and shock proof materials.

46.4.3 Additional Feature and functions

The supplied test bench shall be equipped with electronic phantom load power source, assuring high stability, security and large output capacity with automatic adjustment of current measurement range. Shall have self-detection facilities for detecting the faults in voltage amplifier and current amplifier and be equipped with required interface facilities to be operated from the software. Shall have the facility for saving the test results in the database and that could be inquired from database with having the facility for a printed out as per the requirement.

47. Guaranteed Technical Particulars for Three Phase Meter Test Bench:

Tender No. TSS/FP/TSS Meter Plant/2010/12.

The Guaranteed Technical Particulars as stated below shall have to be completed and signed by the Tenderer/ Manufacturer and to be submitted with Technical Offer along with the supporting documents and printed catalogue.

Sl. No.	Item Description	Requirement	Manufacturer's/ Tenderer's Guaranteed Particulars
01.	Name of the manufacturer, contact address and country of manufacture	To be mentioned.	
	Model No./Catalog Ref. No.	To be mentioned.	
	Accuracy class:	To be mentioned.	
02.	Standard Energy Meter: Accuracy class:	To be mentioned.	
03.	Output Voltage: Range: Fine adjustment (minimum):	To be mentioned.	
04.	Output Current: Fine adjustment (minimum):	To be mentioned.	
05.	Range of Phase: Fine adjustment (minimum):	To be mentioned.	
06.	Frequency: Fine adjustment (minimum):	To be mentioned.	
07.	Waveform distortion coefficient voltage/current:	To be mentioned.	
08.	Stability of Output Power (voltage, current, power factor):	To be mentioned.	
09.	Output capacity: Current: Voltage:	To be mentioned.	
10.	Load: Capacitance, Resistance, Inductance	To be mentioned.	
11.	Starting Current Output (minimum): Accuracy:	To be mentioned.	
12.	Starting Power: Accuracy:	To be mentioned.	

Sl. No.	Item Description	Requirement	Manufacturer's/ Tenderer's Guaranteed Particulars
13.	Numbers of calibrated Energy Meters:	To be mentioned.	
14.	Input Power: Voltage: Frequency:	To be mentioned.	
15.	Maximum Power Consumption (24 Meters / 48 meters):	To be mentioned.	
16.	Test Result logging facility	To be mentioned.	

.....
Seal and Signature with name &
Designation of the Tenderer

Date:

.....
Seal and Signature with name &
Designation of the Manufacturer

Date:

48. Technical Specifications/Particulars of Burden & Puncture Test Bench:

Tender No. TSS/FP/TSS Meter Plant/2010/12.

The Tenderer/ manufacturer shall supply the required Burden and Puncture Test Bench so that the same can be used in the assembly plant to cope with an average assembling capacity of around 200 meters per day by working for one eight hour shift.

The Tenderer/ manufacturer shall submit the relevant detailed specifications with the printed catalogue in supporting the above mentioned specific requirement of TSS.

49. Guaranteed Technical Particulars for Burden and Puncture Test Bench:

Tender No. TSS/FP/TSS Meter Plant/2010/12.

The Guaranteed Technical Particulars as stated below shall have to be completed and signed by the Tenderer/ Manufacturer and to be submitted with Technical Offer along with the supporting documents and printed catalogue.

Sl. No.	Item Description	Requirement	Manufacturer's/ Tenderer's Guaranteed Particulars
01.	Name of the manufacturer, contact address and country of manufacture	To be filled.	
02.	Model No./Catalog Ref. No.	To be mentioned.	
03.	Accuracy class	To be mentioned.	
04.	Applicable Standards	To be mentioned.	
05.		To be mentioned.	
06.		To be mentioned.	
07.		To be mentioned.	
08.		To be mentioned.	
09.		To be mentioned.	
10.		To be mentioned.	
11.		To be mentioned.	
12.		To be mentioned.	

.....
Seal and Signature with name &
Designation of the Tenderer

Date:

.....
Seal and Signature with name &
Designation of the Manufacturer

Date:

50. Technical Specifications/ Particulars of AC Voltage Tester:

Tender No. TSS/FP/TSS Meter Plant/2010/12.

The AC Voltage Tester shall have to be designed for insulation resistance and voltage withstands testing of electrical devices and components according to the various required safety standards. A multitude of automation and labor-saving features are to be provided to ensure effective testing for a wide variety of requirements and test conditions. The main salient features of the Tester shall include the following:

- Safety standards compliance testing,
- Stores minimum 20 sets of test conditions,
- Voltage comparator functions,
- Zero-V Switching,
- Electrical Discharge function,
- Automated testing support,
- Interlock Protect function,
- Selectable remote controls,

51. Guaranteed Technical Particulars for AC Voltage Tester:

Tender No. TSS/FP/TSS Meter Plant/2010/12.

The Guaranteed Technical Particulars as stated below shall have to be completed and signed by the Tenderer/ Manufacturer and to be submitted with Technical Offer along with the supporting documents and printed catalogue.

Sl. No.	Item Description	Requirement	Manufacturer's/ Tenderer's Guaranteed Particulars
1.	Manufacturer's Name & Address	To be mentioned	
2.	Model with Catalogue	To be mentioned	
3.	Test function	Voltage endurance test	
4.	Testing voltage	0 to 2.5 kV / 0 to 5.0 kV AC, dual-range configuration	
5.	Voltage testing method	Zero-toggle switch	
6.	Transformer capacity	500 VA (maximum 30 minutes)	
7.	Voltage adjustment	Manually adjusted slidac.	
8.	Waveform	Mains waveform	
9.	Frequency	Mains synchronous	
10.	Measurement items	Voltage: 0 to 5 kV AC (Average value rectified, effective value display)	
11.	Current:	0.01 to 120 mA AC (Average value rectified, effective value display)	
12.	Judgment function Contents:	UPPER-FAIL / PASS / LOWER-FAIL (Digital setting window comparator method)	
13.	Timer section Setting range:	0.5 to 999 seconds	
14.	Interfaces	EXT I/O, EXT SW, RS-232C	
15.	Display	Fluorescent tube display (digital)	
16.	Monitor function	Output voltage, detection current	
17.	Power supply	240 V AC, 50 Hz	
18.	Dimensions	About: 330 mm - W × 155 mm - H × 263 mm – D	

.....
Seal and Signature with name & Designation of the Tenderer

Date:

.....
Seal and Signature with name & Designation of the Manufacturer

Date:

Part – IV:

Price Schedule (Outside Purchaser's Country)

Tender No. TSS/FP/TSS Meter Plant/2010/12.

To be quoted in US Dollars.

Item No.	Description of Item	Unit of Supply	Qty. of units Required	Unit EXW price *Note 1/ Note 2	Total EXW price	Extra Price to deliver Goods to final destination *Note 3	Total price Delivered
1	2	3	4	5	6 = 4 x 5	7	8 = 6+7
1.	Three Phase Meter Test Bench for testing 24 Meters at a time as per requirements that specified in Technical Specifications and in the Tender Document.	Set	1				
2.	Burden and Puncture Test Bench as per the requirements specified in Technical Specifications and in the Tender Document.	Set	1				
3.	A.C Voltage Tester as per requirements specified in Technical Specifications and in the Tender Document	Set	1				
4.	Installation, Testing & Commissioning by the Manufacturer's Engineer.	Lump Sum					
Total in Figure:							

Total in words: _____ only.

This schedule contains _____ number corrections or errors duly initialled and signed by the authorized Person of the Tenderer.

Note 1: EXW means Ex-works; Ex-warehouse; or Ex-show-room, as applicable

Note 2: Unit EXW price shall include all applicable duties, sales and other taxes, VAT, etc., as specified in Tender Document.

Note 3: Price shall include transportation cost and other costs as specified in Tender Document.

Signature of Tenderer _____ Date _____

Name of Tenderer _____

Designation of Tenderer _____

Part – V: Forms

Annexure – 1

Tender Submission Sheet

Tender No. TSS/FP/TSS Meter Plant/2010/12.

**To
The Managing Director
Telephone Shilpa Sangstha Limited (TSS)
Tongi, Gazipur, Bangladesh**

We, the undersigned, offer to **Supplying, Installing, Testing and commissioning of Test Equipment and Tools for TSS Meter Plant**, the Goods as mentioned in the Price Schedule in conformity with the Tender Document.

We undertake, if our Tender is accepted, to deliver the goods in [.....] (weeks/months) from the date of [.....] in accordance with the delivery schedule.

We are not participating as Tenderers/ Manufacturer in more than one Tender in this Tendering process. Our Tender shall be valid for the period stated in the Tender Document and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

An Bid Security in the amount stated in the Tender Document is attached in the form of a [*state pay order, bank draft, bank guarantee*] valid for a period of 28 days beyond the Tender Validity Date.

We declare that ourselves, and any subcontractors or suppliers for any part of the Contract, have nationalities from the countries which are not band by the Government of the People’s Republic of Bangladesh (GoB) and that the equipment, goods and related services will also be supplied from countries which are also not band by GoB. We also declare that the Government of Bangladesh has not declared us, and any subcontractors or suppliers for any part of the Contract, ineligible on charges of engaging in corrupt, fraudulent, collusive or coercive practices.

We furthermore, pledge not to indulge in such practices in competing for or in executing the Contract and are aware of the relevant provisions of the Tender Document.

We understand that our Financial Proposal shall be opened and evaluated only if our Technical Proposal becomes responsive upon your evaluation.

We understand that you are not bound to accept our Technical Proposal or any other Technical Proposal that you may receive.

Signed
In the capacity of:
Duly authorised to sign the Tender on behalf of the Tenderer.
Date:

Tenderer's Information Sheet

Tender No. TSS/FP/TSS Meter Plant/2010/12.

A. Individual Tenderer

1. General Information of the Tenderer		
1.1	Tenderer's Legal Name	
1.2	Tenderer's legal address in Country of Registration	
1.3	Tenderer's legal status	
	Proprietorship	
	Partnership (Registered under the Partnership Act, 1932)	
	Limited Liability Concern (Registered under the Companies Act, 1994)	
	Others	
1.4	Tenderer's Year of Trade Licence Registration	
1.5	Tenderer's business status	
	Manufacturer	
	Local Agent/Distributor of a foreign Manufacturer	
	Stockist	
	Others	
1.6	Tenderer's Authorised Representative's Information	
	Name	
	Address	
	Telephone / Fax Numbers	
	e-mail address	
1.7	Tenderer to attach copies of the following documentation:	Documents mentioned in the (a) Technical Proposal, and (b) Financial Proposal.

2. Qualification Information of the Tenderer		
2.1	Number of years of overall supply experience of the Tenderer.	
2.2	Available liquid assets.	

B. Individual Members of a Joint Venture

3.1	Each Member of a joint venture, consortium or association (JVCA) shall provide all the information requested in the form above.
3.2	Attach a power of attorney for each of the authorising signatories of the Tender on behalf of the joint venture, consortium or association (JVCA).
3.3	<p>Attach the Agreement among all Members of the JVCA (and which is legally binding on all Members), which shows that:</p> <ul style="list-style-type: none"> (a) all Members shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms; (b) one of the Members will be nominated as being in charge, authorised to incur liabilities, and receive instructions for and on behalf of any and all Members of the joint venture; and (c) the execution of the entire Contract, including payment, shall be done exclusively with the Member in charge

Signed
In the capacity of:
Duly authorised to sign the Tender on behalf of the Tenderer.
Date:

Manufacturer's Authorisation Letter
(Where applicable)

Tender No. TSS/FP/TSS Meter Plant/2010/12.

[This letter of authorisation should be on the letterhead of the manufacturer and should be signed by the person with the proper authority to sign documents that are binding on the manufacturer]

To

**The Managing Director,
TELEPHONE SHILPA SANGSTHA LIMITED (TSS)
TONGI, GAZIPUR, BANGLADESH.**

WHEREAS, we *[name and address of manufacturer]* are reputable manufacturers having factories at *[list of places of factories]*.

THEREFORE, we do hereby:

1. Authorise *[name of Tenderer]* to submit a Tender in response to the Invitation for Tenders indicated above, the purpose of which is to provide the equipments, tools and other required accessories and goods as mentioned in this tender document for assembling the Three phase digital/ analogue meters, and to subsequently sign the Contract for the supply of such Goods; and,
2. Extend our full guarantee and warranty in accordance with the respective Clause of this tender document, with respect to the Goods offered in the Tender.

Signed

Name:

In the capacity of (Designation):

Duly authorised to sign the document on behalf of the Manufacturer.

Date:

Tenderer's Warranty Certificate

(To be submitted in official letterhead)

Tender No. TSS/FP/TSS Meter Plant/2010/12.

**To
The Managing Director
Telephone Shilpa Sangstha Limited (TSS)
Tongi, Gazipur, Bangladesh**

The supplier warrants that all goods/materials to be supplied under this proposal shall be new and free of defects in workmanship and materials, and shall be new and have the kind and quality specified in the technical specification.

If within 5 (five) years from the date of delivered to and accepted at the final destination the assembly plant of TSS at Gazipur, Bangladesh, the purchaser discovers any defects in workmanship and or materials and notifies the supplier/ manufacturer in writing then the supplier shall with all reasonable speed remedy such defects of non-conformance to the specific action at his own expense by adjustment, repair or replacement at the option of the purchaser, and in such case the warranty period shall be extended by 5 (five) years from the date of repair/replacement of the defective item.

Signed

Name:

In the capacity of (Designation):

Duly authorised to sign the Tender on behalf of the Tenderer.

Date:

Manufacturer's Warranty Certificate

(To be submitted in official letterhead)

Tender No. TSS/FP/TSS Meter Plant/2010/12.

**To
The Managing Director
Telephone Shilpa Sangstha Limited (TSS)
Tongi, Gazipur, Bangladesh.**

The manufacturer warrants that all goods/materials to be supplied under this proposal shall be new and free of defects in workmanship and materials, and shall be new and have the kind and quality specified in the technical specification.

If within 5 (five) years from the date of delivered to and accepted at the final destination the assembly plant of TSS at Gazipur, Bangladesh, the purchaser discovers any defects in workmanship and or materials and notifies the supplier/manufacturer in writing then the supplier shall with all reasonable speed remedy such defects of non-conformance to the specific action at his own expense by adjustment, repair or replacement at the option of the purchaser, and in such case the warranty period shall be extended by 5 (five) years from the date of repair/replacement of the defective item.

Signed

Name:

In the capacity of (designation):

Duly authorised to sign the Document on behalf of the Manufacturer.

Date:

Bank Guarantee for Bid Security

[This is the format for the Tender Security (Bid Security) to be issued by a scheduled bank of Bangladesh in accordance with the requirement of the Tender Document]

Tender No. TSS/FP/TSS Meter Plant/2010/12.

**To
The Managing Director
Telephone Shilpa Sangstha Limited (TSS)
Tongi, Gazipur, Bangladesh**

TENDER GUARANTEE No: _____

We have been informed that *[name of Tenderer]* (hereinafter called “the Tenderer”) intends to submit to you its Tender dated *[date of Tender]* (hereinafter called “the Tender”) for the **Supplying, Installing, Testing and commissioning of Test Equipment and Tools for TSS Meter Plant**, under the above Invitation for Tenders (hereinafter called “the IFT”)

Furthermore, we understand that, according to your conditions Tenders must be supported by a Tender guarantee.

At the request of the Tenderer, we *[name of bank]* hereby irrevocably undertake to pay you, without cavil or argument, any sum or sums not exceeding in total an amount of Taka *[insert amount in figures and in words]* upon receipt by us of your first written demand accompanied by a written statement that the Tenderer is in breach of its obligation(s) under the Tender conditions, because the Tenderer:

- (a) has withdrawn its Tender during the period of Tender validity specified by the Tenderer in the Form of Tender; or
- (b) does not accept the correction of errors in accordance with the Instructions to Tenderers of the Tender Document; or
- (c) having been notified of the acceptance of the Tender by the Purchaser (TSS) during the period of Tender validity, (i) fails or refuses to furnish the Performance Security, or (ii) fails or refuses to execute the Contract Form,

This guarantee will expire:

- (a) if the Tenderer is the successful Tenderer, upon our receipt of a copy of the Performance Security and a copy of the Contract signed by the Tenderer as issued by you; or
- (b) if the Tenderer is not the successful Tenderer, twenty eight days after the expiration of the Tenderer's Tender validity period, being *[date of expiration of the Tender]*

Consequently, we must receive at the above-mentioned office any demand for payment under this guarantee on or before that date.

Authorised Signature
Bank Seal

Authorised Signature
Bank Seal

Price Proposal Sheet

Tender No. TSS/FP/TSS Meter Plant/2010/12.

**To
The Managing Director
Telephone Shilpa Sangstha Limited (TSS)
Tongi, Gazipur, Bangladesh.**

We, the undersigned, offer to **Supplying, Installing, Testing and commissioning of Test Equipment and Tools for TSS Meter Plant**, in conformity with the Conditions of Tender Document/ Contract and associated Contract Documents.

The total Price of our Tender excluding Price reduction is:

Tk. (*in figure*),

Taka (*in words*).

The discount offered and the methodology for its application is:

We understand that our Financial Proposal shall be evaluated only if our Technical Proposal is responsive upon evaluation. If our Financial Proposal is accepted, we commit to obtaining a Performance Security in the amount stated in the Conditions of the Tender Document/ Contract Document and valid for a period of 28 days beyond the date of issue of the Certificate of completion of supply.

We understand that your written Notification of Award shall constitute the acceptance of our Tender and shall become a binding Contract between us, until a formal Contract is prepared and executed.

We understand that you are not bound to accept the lowest evaluated Financial Proposal or any other Financial Proposal that you may receive.

Signed

Name:

In the capacity of (Designation):

Duly authorised to sign the Tender on behalf of the Tenderer.

Date:

Notification of Award

Tender No. TSS/FP/TSS Meter Plant/2010/12.

To:

(Name of the Supplier)

This is to notify you that your Tender dated *[insert date]* for the supply of goods and related services for **Supplying, Installing, Testing and commissioning of Test Equipment and Tools for TSS Meter Plant**, for the Contract Price of Taka *[amount in figures and in words]*, as corrected and modified in accordance with the Instructions to Tenderers and the conditions stipulated in the Tender Document is hereby accepted by Telephone Shilpa Sangstha Limited (TSS).

You are requested to proceed with the supply of the goods and the related services and note that this Notification of Award shall constitute the formation of a Contract, which shall only become binding upon you furnishing a Performance Security within 14 (fourteen) days, and the signing of the Contract Agreement within 21 (twenty one) days.

We attach the Contract Agreement and Contract Documents for your perusal and signature.

Deputy Manager (Prefabrication),
Telephone Shilpa Sangstha Limited

Tongi, Gazipur.

Contract Agreement

Tender No. TSS/FP/TSS Meter Plant/2010/12.

THIS AGREEMENT made the *[day]* day of *[month]* *[year]* between Telephone Shilpa Sangstha Limited (TSS), (hereinafter called “the Purchaser”) of the one part and *[name and address of Supplier]* (hereinafter called “the Supplier”) of the other part:

WHEREAS the Purchaser invited Tenders for certain goods and related services, viz, **Supplying, Installing, Testing and commissioning of Test Equipment and Tools for TSS Meter Plant**, and has accepted a Tender by the Supplier for the supply of those goods and related services in the sum of US\$ *[Contract Price in figures and in words]* equivalent to Taka *[Contract Price in figures and in words]* (hereinafter called “the Contract Price”).

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the General Conditions of Contract hereafter referred to.
2. The documents forming the Contract shall be interpreted in the following order of priority:
 - (a) the letter of Notification of Award
 - (b) the completed Tender Submission Sheet as submitted by the Tenderer;
 - (c) the completed Price Schedules as submitted by the Tenderer;
 - (d) the General Information;
 - (e) the General Conditions;
 - (f) the Schedule of Requirements;
 - (g) the Technical Specifications;
 - (h) the Guaranteed Technical Particulars/ Specifications;
 - (i) any other document listed in the PCC as forming part of the Contract.
3. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the goods and related services and to remedy any defects therein in conformity in all respects with the provisions of the Contract.

4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the goods and related services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of Bangladesh on the day, month and year first written above.

For the Purchaser:

For the Supplier:

Signature

Name

Designation

Witness

Name

Address

Performance Guarantee (PG)

*[This is the format for the Performance Security/ Guarantee to be issued by a
scheduled bank
of Bangladesh in accordance with the conditions in the Tender Document]*

Tender No. TSS/FP/TSS Meter Plant/2010/12.

**To
The Managing Director
Telephone Shilpa Sangstha Limited (TSS)
Tongi, Gazipur, Bangladesh.**

PERFORMANCE GUARANTEE No: _____

We have been informed that *[name of supplier]* (hereinafter called “the Supplier”) has undertaken, pursuant to Contract No *[reference number of Contract]* dated *[date of Contract]* (hereinafter called “the Contract”) for the **Supplying, Installing, Testing and commissioning of Test Equipment and Tools for TSS Meter Plant**, under the Contract.

Furthermore, we understand that, according to your conditions, Contracts must be supported by a performance guarantee.

At the request of the Supplier, we *[name of bank]* hereby irrevocably undertake to pay you, without cavil or argument, any sum or sums not exceeding in total an amount of Taka *[insert amount in figures and in words]* upon receipt by us of your first written demand accompanied by a written statement that the Supplier is in breach of its obligation(s) under the Contract conditions, without you needing to prove or show grounds or reasons for your demand of the sum specified therein.

This guarantee is valid until *[date of validity of guarantee]*, consequently, we must receive at the above-mentioned office any demand for payment under this guarantee on or before that date.

Authorised Signature

Authorised Signature

Seal of the Bank

Seal of the Bank