



OFFICE OF THE BOARD OF COUNCILLORS BANKURA MUNICIPALITY

P.O. - BANKURA, DIST. - BANKURA
PIN: -722101, WEST BENGAL



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Memo No. 3596 / VIII-14

Dated: 06.12.2019

**NOTICE INVITING ELECTRONIC QUOTATION NO.-WBMAD/BM/15/SL1-6/AMRUT/19-20 OF THE
CHAIRMAN,BANKURA MUNICIPALITY
Tender ID: 2019_MAD_258089_1**

NOTICE INVITING e-Quotation

The Chairman, Bankura Municipality on behalf of BOC, invites e-Quotation on rate Quoted basis from reputed and resourceful contractor/ Company / firm / Public Sector Undertaking / Government Company having experience in Govt. Departments for execution of similar nature of works for the work as given below (Submission of both technical and price Bid through online).

Sl. No.	Name of the Work	Estimated Amount (Rs.)	No. of House connection (Nos.)	Location	Earnest Money (Rs.)	Period of completion
1.	House Service Connection up to consumer premises with MDPE pipes of required dia. and necessary accessories including Water Meter for Water Supply Scheme under AMRUT within Bankura Municipality	Item Rate Tender	4000	Zone-A Ward Nos. 13,14,15 & 16	2% of the Quoted Bid price in two parts initially Rs. 2,00,000.00 (Rupees Two lakh) may be deposited only through net banking at the time of dropping bid documents and the rest amount of EMD if any shall be deposited at the time of acceptance of the bid.	6 (six) months
2.	House Service Connection up to consumer premises with MDPE pipes of required dia. and necessary accessories including Water Meter for Water Supply Scheme under AMRUT within Bankura Municipality	Item Rate Tender	4000	Zone-B Ward Nos. 17,18,19& 23	2% of the Quoted Bid price in two parts initially Rs. 2,00,000.00 (Rupees Two lakh) may be deposited only through net banking at the time of dropping bid documents and the rest amount of EMD if any shall be deposited at the time of acceptance of the bid.	6 (six) months

Sl. No.	Name of the Work	Estimated Amount (Rs.)	No. of House connection (Nos.)	Location	Earnest Money (Rs.)	Period of completion
3.	House Service Connection up to consumer premises with MDPE pipes of required dia. and necessary accessories including Water Meter for Water Supply Scheme under AMRUT within Bankura Municipality	Item Rate Tender	4000	Zone-C Ward Nos. 11,21,22& 24	2% of the Quoted Bid price in two parts initially Rs. 2,00,000.00 (Rupees Two lakh) may be deposited only through net banking at the time of dropping bid documents and the rest amount of EMD if any shall be deposited at the time of acceptance of the bid.	6 (six) months
4.	House Service Connection up to consumer premises with MDPE pipes of required dia. and necessary accessories including Water Meter for Water Supply Scheme under AMRUT within Bankura Municipality	Item Rate Tender	4100	Zone-D Ward Nos. 1,2,3 & 12	2% of the Quoted Bid price in two parts initially Rs. 2,00,000.00 (Rupees Two lakh) may be deposited only through net banking at the time of dropping bid documents and the rest amount of EMD if any shall be deposited at the time of acceptance of the bid.	6 (six) months
5.	House Service Connection up to consumer premises with MDPE pipes of required dia. and necessary accessories including Water Meter for Water Supply Scheme under AMRUT within Bankura Municipality	Item Rate Tender	4150	Zone-E Ward Nos. 7,8,9 & 10	2% of the Quoted Bid price in two parts initially Rs. 2,00,000.00 (Rupees Two lakh) may be deposited only through net banking at the time of dropping bid documents and the rest amount of EMD if any shall be deposited at the time of acceptance of the bid.	6 (six) months
6.	House Service Connection up to consumer premises with MDPE pipes of required dia. and necessary accessories including Water Meter for Water Supply Scheme under AMRUT within Bankura Municipality	Item Rate Tender	4150	Zone-F Ward Nos. 4,5,6 & 20	2% of the Quoted Bid price in two parts initially Rs. 2,00,000.00 (Rupees Two lakh) may be deposited only through net banking at the time of dropping bid documents and the rest amount of EMD if any shall be deposited at the time of acceptance of the bid.	6 (six) months

1. In the event of e-filing, intending tenderer may download the tender documents consisting of this N.I.T. Instruction to tenderer (section-A), different forms & affidavits (Section-B), description of materials, Schedule of works (BOQ), W.B Form No-2911(ii) with current Corrigenda and Corrigenda & Addenda (if any) from the web site <https://wbtenders.gov.in> directly with the help of digital signature certificate.

2. Both Technical Bid & Financial Bid are to be submitted concurrently duly digitally signed in the Website <https://wbtenders.gov.in> with the help of digital signature certificate. Necessary cost of earnest money may be remitted through RTGS/NEFT issued from the Nationalized/ Scheduled bank in favour of "Chairman, Bankura Municipality", payable at Bankura and also to be documented through e-filing the original RTGS/NEFT against Earnest Money Deposit (EMD).

3. Tender documents may be downloaded from website and submission of Technical Bid & Financial Bid will be done as per time schedule.

4. The FINANCIAL OFFER of the prospective tenderer will be consider only if the TECHNICAL BID of the tenderer is found qualified by the 'Tender Evaluation Committee' formed by the Chairman, Bankura Municipality. The decision of the 'Tender Evaluation Committee' will be final and absolute in this respect. The list of qualified tenderer will be displayed in the website.

5. Eligibility criteria for participation in the tender.

i) The prospective bidders/ tenderers must have satisfactorily completed during the last 5 (five) years from the date of issue of this notice at least one work of similar nature of work and having a magnitude of 40% (forty percent) of total number of house connections with respect to B-o-Q provision in this tender.

OR

The credentials of those agencies who have successfully completed by laying of pipeline of any water supply project may be accepted and in this case, value of credentials will not be less than of Rs.96.00 lakhs (Ninety-six lakhs)only.

OR

[Non-statutory documents]N.B.: Estimated amount, Date of completion of project and detail communicational address of client must be indicated in the Credential Certificate.]

ii) Intending tenderers should produce credentials of 2(two) similar nature of work, each of the minimum value of 30% (thirty percent) of total number of house connections with respect to B-o-Q provision in this tender or of the estimated value will not be less than of Rs.72.00 lakhs (Seventy-two lakhs) only of each work amount put to tender during 5(five) years prior to the date of issue of the tender notice;

OR

iii) Intending tenderers should produce credentials of one single running work of similar nature of work which has been completed to the extent of 80% (thirty percent) or more and value of which is not less than as desired value at (i)above;

In case of running works, only those tenderers who will submit the certificate of satisfactory running work from the concerned Executive Engineer, or equivalent competent authority will be eligible for the tender. In the required certificate it should be clearly stated that the work is in progress satisfactorily and also that no penal action has been initiated against the executing agency, i.e., the tenderer.

iv) The intending tenderer will have to produce credential as satisfactory completion certificate along with work order of similar nature of work as stated above.

iv) Having annual turnover of at- least Rupees One Crore or above in any one year of last five Financial Years.

v) Tenderers should submit Solvency Certificate of at least Rupees Seventy Lakh only from their banker/ bankers regarding financial capability. [Non-statutory documents]

vi) In case of Proprietorship, Partnership Firms and Company, Tax Audit Report in 3 CD Form are to be furnished along with the balance sheet and profit and Loss Account and all the documents along with schedules forming the part of balance sheet and Profit & Loss Account should be in favor of applicant. No either name alongwith applicant's name in such enclosures will be entertained.[Non-statutory documents]

vii) Register partnership deed for partnership firm is to be submitted. The company shall furnish the Article of Association and Memorandum. Where an individual person holds a digital certificate in his own name duly issued to him against the company or the firm of which he happens to be a director or partner, such individual person shall while uploading any tender for and on behalf of such company or firm, invariably upload a copy of registered power of attorney showing clear authorization in his favour, by the rest of the directors of such company or the partners or such firm to upload such tender.[Non-statutory documents]

viii) The prospective tenderer should own or arrange through lease hold registered agreement, the required plant and machineries. Conclusive proof of ownership in favour of owner, leaser of plant & machineries in working condition shall have to be submitted.(Ref. Form-IV, Section-B)[Non-statutory documents]

ix) The prospective tenderer shall have in their full time engagement experienced technical personal, the minimum being one Civil Engineering degree holder and one Civil Engineering Diploma holder (Authenticated documents in respect of qualification and engagement shall be furnished for Technical Evaluation)[Non-statutory documents]

x) Registered Unemployed Engineer's Co-operative Societies / Labour Co-operative Societies are required to furnish valid Bye Law, Current Audit Report Minutes of last A.G.M. along with other relevant supporting papers.

xi) Income Tax Acknowledgement Receipt for the Latest Assessment year, P.T. Deposited Challan for the year 2018-2019, Copy of Pan Card, GST Registration Certificate No. are to be accompanied with the Technical Bid Documents.[Non-statutory documents]

xii) Joint Ventures will not be allowed.

xiii) A prospective tenderer shall be allowed to participate in a particular job either in the capacity of individual or as a partner of a firm. If found to have applied severally in a single job, all his applications will be rejected for that job without assigning any reason thereof. A prospective tenderer (including his participation in partnership) shall be allowed to participate in single work as mentioned in the list of schemes of this NIT.

The documents as mentioned above will be examined in order to assess the eligibility of the applicant to participate in the tender. On being satisfied about the eligibility, Part-II, i.e. Financial Bid will be opened.

6. Constructional Labour welfare Cess @ 1% (one percent) of cost of construction will be deducted from every bill of the selected agency, GST, Royalty & all other Statutory levy / Cess will have to be borne by the contractor & the rate in the schedule of rates inclusive of all the taxes & cess stated above.

7. No Mobilization Advance and Secured Advance will be allowed.

8. Adjustment of Price (increase or decrease) Vide Notification No.23-CRC/2M-61/2008, Dated:13.03.2009 & Notification No. 38-CRC/2M-61/2008 Dated 20.04.2009 shall not be applicable. Since B.O.Q for the works under this N.I.T. the tenderer shall quote their rate (percentage above / below / at per) accordingly considering that no escalation and / or price adjustment will be allowed by the department.

9. The executing agency (successful tenderer) may not get a running payment unless the gross amount of running bill will be 50(fifty) lakh or 30% of the tendered amount whichever is less. Provision in clause(s) 7, 8 & 9 contained in Form no. 2911(ii) so far as they relate to quantum and frequencies of payments are to be treated as superseded.

10. Agencies shall have to arrange land for erection of Plant & Machineries storing of materials, labour shed, laboratories etc at their own cost and responsibility.

11. All materials required for execution of each work (as per BOQ) to be produced and supplied at site by the contractor at his own cost.

12. Agencies shall have to arrange required land for installation of Plant & Machineries, (specified for each awarded work, shoring of materials, labour shed, laboratory etc at their own cost and responsibility nearest to the work site.

13. Bids shall remain valid for a period not less than 120 days (one hundred twenty) from the last date of submission of Financial Bid / Sealed Bid if the tenderer withdraws the bid during the period of bid validity the earnest money as deposited will be forfeited without assigning any reason thereof.

14. Defect liability Period: 3 (Three) years As per Clause 17 of Form2911 (ii) vide Notification No. 5784-PW/L&A/2M-175/2017 dated 12.09.2017 of Govt. of West Bengal

THE ABOVE STATED NON-STATUTORY / TECHNICAL DOCUMENTS SHOULD BE ARRANGED IN THE FOLLOWING MANNER.

Sl. No.	Category Name	Sub Category Description	Details	Remarks
A	CERTIFICATES	CERTIFICATES	1.GST Registration / PAN / P.Tax Clearance Certificate 2.Income Tax Acknowledgement Receipt	
B	COMPANY DETAILS	COMPANY DETAILS-1 COMPANY DETAILS-II	1.Proprietorship Firm (Trade License) 2. Partnership Firm (Partnership Deed, Trade License). 3.Ltd. Company (Incorporation Certificate, Trade License) 4.Power of Attorney 5.Society (Society Registration copy, Trade License)	
C	CREDENTIAL	CREDENTIAL-1	As stated in No.5	
D	DECLARATION	DECLARATION	1.Corrigendum and Addendum (if any) 2.Additional Document If Any	
E	EQUIPMENT			
F	FINANCIAL INFO	WORK IN HAND		
	2018-2019	PAYMENT CERTIFICATE 1 PAYMENT CERTIFICATE 2	1.Profit & Loss & balance Sheet (With Annexure and 3CD Form in case of Tax Audit)	
	2017-2018	P/L AND BALANCE SHEET	1.Profit & Loss & balance Sheet (With Annexure and 3CD Form in case of Tax Audit)	
	2016-2017	P/L AND BALANCE SHEET	1.Profit & Loss & balance Sheet (With Annexure and 3CD Form in case of Tax Audit)	
G	MANPOWER	TECHNICAL PERSONNEL	1. List of Technical Staffs along with Structure & Organization.	

Note: -Failure of submission of any of the above mentioned documents will render the tender liable to summarily rejected for both statutory & non statutory cover

******EMD (Earnest Money):**

2% of the Quoted Bid price in two parts, vise

- a) Rs. 2,00,000.00 (Rupees Two Lakhs only) as an initial Earnest Money may be remitted through RTGS/NEFT issued from any nationalised/ scheduled bank in favour of the “**Chairman, Bankura Municipality,**” payable at **Bankura** and also to be documented through e-filing the original RTGS/NEFT against Earnest Money Deposit (EMD)
- b) Earnest Money Deposit i.e. 2% of bid amount beyond Rs. 2, 00,000.00 (if any) shall have to be deposited after acceptance of Bid Proposal i.e. final agreement

******* Date & Time Schedule:**

Sl. No.	Particulars	Date & Time
1	Publishing of Tender (Online)	09.12.2019 at 12:00 Hrs.
2	Documents download start date (Online)	09.12.2019 at 12:30 Hrs.
3	Bid submission start date (Online)	09.12.2019 at 12:30 Hrs.
4	Documents download end date (Online)	06.01.2020 upto 17.00Hrs.
5	Bid submission end date (Online)	06.01.2020 upto 18.00Hrs.
6	Opening of Technical Proposal(Online)	09.01.2020 at 11.00Hrs.
7	Date of uploading list for Technically Qualified(Online)	To be informed at the time of technical bid evaluation

15. Security Deposit: As per Clause 17 of Form No. 2911(ii) vide Notification No. 5784-PW/L&A/2M-175/2017 dated 12.09.2017 of Govt. of West Bengal

16. CONDITIONAL and INCOMPLETE TENDER will not be accepted under any circumstances.

17. The Chairman, Bankura Municipality reserves the right to cancel the N.I.T due to unavoidable circumstances and no claim in this respect will be entertained.

18. During scrutiny, if it is come to the notice to tender inviting authority that the credential or any other papers found incorrect / manufactured / fabricated, that tender will not be allowed to participate in the tender and that application will be out rightly rejected without any prejudice with forfeiture of earnest money forthwith.

19. The tender inviting authority reserves the right to accept or reject any bids and to cancel the bidding process without assigning any reason whatsoever to the tenderer.

20. Before issuance of the work order, the tender inviting authority may verify the credential & other documents of the lowest tenderer if found necessary After verification , if it is found that such documents submitted by the lowest tenderer is either manufacturer or false in that case work order will not be issued in favour of the tenderer under any circumstances.

21. If any discrepancy arises between two similar clauses on different notifications, the clause as stated in later notification will supersede former one in following sequence:

- i. Form No. 2911(ii) with current order vide No. 5784-PW dated 12.09.2017
- ii. N.I.Q
- iii. Technical Bid
- iv. Financial Bid

Qualification Criteria

The Tender Inviting & Accepting Authority will determine the eligibility of each tenderer, the tenderer shall have no meet all the minimum criteria regarding:

- a. Financial Capacity.
- b. Technical Capability comprising of personal & equipment capability.
- c. Experience.

The eligibility of a tenderer will be ascertained on the basis of the documents in support of the minimum criteria as mentioned in (a), (b) & (c) above and the declaration executed through prescribed affidavit in non-judicial stamp paper of appropriate value duly notarized. If any document submitted by a tenderer is either manufactured or false, in such cases the eligibility of the tenderer / tender will be rejected at any stage without any prejudice.

22. This N.I.T shall form a part of the contract document. The successful tenderer on acceptance of his bid by the Accepting Authority sign the contract consisting of N.I.T. all tender documents forming part of the time of the Bid uploaded at the time of invitation of bid, the rates quoted online at the time of submission of bid and standard W.B Form No. 2911(ii) with current order vide No. 5784-PW dated 12.09.2017 (Ref. Sl. No. A.9.-section-A).

23. Periodical quality test of materials supplied by the agency and final products are to be made as per guideline of schedule of P.W.D. / I.S. at contractor's cost. Normally quality control test of supplied materials / final products will be done in the Deptt. Laboratory. Otherwise testing of materials / final products will be done from the outside recognized laboratory at the discretion of Engineer-in-charge. In both the cases necessary cost of testing charges will be borne by the agency.

Sd/-
Chairman
Bankura Municipality

Memo No:- 3596(13)/VIII-14

Dated:06.12.2019

Copy forwarded for information and wide circulation to :

1. The State Mission Director-AMRUT, H.C. Block, Sector-III, Bidhannagar, Kollata
2. The District Magistrate, Bankura
3. The Chief Engineer, M.E,Dte., , Bikash Bhavan, Saltlake, Kolkata-700106.
4. The Addl. Chief Engineer, M.E,Dte., , Bikash Bhavan, Saltlake, Kolkata-700106
5. The Superintending Engineer, South Circle, Municipal Engineering Directorate, Khargapur
6. The Executive Engineer, Municipal Engineering Directorate, Bankura Division, Bankura
7. Hon'ble member, C.I.C. (P.W.D.), Bankura Municipality
8. Hon'ble member, C.I.C. (W.W.D.), Bankura Municipality
9. The Executive Officer, Bankura Municipality
10. The Finance Officer, Bankura Municipality
11. Official website of Bankura Municipality: <http://www.bankuramunicipality.org>
12. I.T. Co-ordinator, Bankura Municipality is ordered to upload this notice into the official website of Bankura Municipality
13. Website: - <https://wbtenders.gov.in>

Sd/-
The Chairman
Bankura Municipality

GENERAL SPECIFICATIONS OF MATERIALS TO BE USED FOR HOUSE CONNECTIONS

MDPE Pipe for House Service Connection:

Pipes shall be made out of MDPE raw materials and it must have WRc, KIWA approvals. The pipes shall be conforming to ISO: 4427, PN 16.

The pipes must have carried all mechanical and chemical properties in accordance to ISO: 4427 only.

Pipes should be suitable for electro fusion jointing and shall be flexible enough to hold the compression fittings.

All MDPE pipes shall be supplied in single length of 200 meters in coil form and both ends shall be covered by PE end as protection cap during transit.

Manufacturers test certificate along with raw materials manufacturer's test certificate is mandatory. Random inspection for pipe, fittings, water meter will be carrying out.

Installation and Fusion Jointing

The fusion jointing process is to be carried out as per the procedure outlined in the **DVS2202** standard, if not available equivalent standards acceptable to employer.

A protocol for each fusion joint to be printed to ensure the joint process carried out is error free. The electro fusion machine shall have the facility to record & make print for each joint.

The precautions & measures as mentioned by electro fusion fittings/machine manufacturer should be taken up rigorously while making the joints in the field.

The related pipe jointing accessories such as rotary pipe cutter, Universal clamping tools, Pipe cleaners, Pipe peelers supplied by the same electro fusion fitting/machine supplier shall be used to ensure perfect jointing.

The usage of tapping tools such as tapping keys, supplied by the same electro fusion fitting /machine supplier must be used to ensure perfect tapping of main lines.

The piping system will be tested as per the guidelines given by ISO standard. The guideline shall be furnished by the supplier of electro fusion fittings, tools and machines.

Electro fusion Welding Machine

The electro fusion control unit shall be designed for use with electro fusion fittings of 40V. The unit shall operate in two modes, Automatic & Manual. The unit shall be complete with all accessories and shall have the following features as minimum.

- 1.1 All units are to be provided with a single push button start and have additional information recoverable.
 - 1.2 The initial power supply to enable the control unit to function correctly for all fitting and saddle sizes up to nominal diameter 400 mm should not exceed 4 KWA.
 - 1.3 The unit is to be designed with an automatic compensator so that it can fully operate within input tolerances of between 180 and 264 Volt, respectively 45 and 65 Hz.
 - 1.4 The units are to operate with a stabilised fusion voltage.
 - 1.5 The range of fusion voltage is to be between 39 and 40 volts.
 - 1.6 The display shall be scratch-resistant, back-lit, be easily readable, have an adjustable contrast function and give relevant information such as:
 - recognition of fitting type, dimension and manufacturer
-

- resistance of connected fitting
 - a check-system prior to commencement of fusion process
 - actual running and final fusion time in seconds
 - primary voltage and frequency
 - Ambient temperature.
 - Individual fusion number and unit number
 - mode of data transfer
 - appropriate cooling time
- 1.7 A temperature sensor is to be provided.
- 1.8 The minimum operating range of ambient temperatures is to be between -10° and +45°C and the unit must be equipped with an external ventilator for continual operation.
- 1.9 The unit must be capable of recognizing and processing different manufacturer's products.
- 1.10 Adapter clips for 4 mm terminal pins are to be available.
- 1.11 An external memory bank must be able to record at least 450 fusion records and be easily accessible and exchangeable.
- 1.12 The complete control unit must be contained in one single housing and not exceed a maximum weight of 21 kilograms including all standard primary and secondary cables.
- 1.13 The supplier must be able to provide a full range of system software and data transmission accessories as applicable for data processing.
- 1.14 The ability to download fusion records from all memory systems via an RS 232 interface is to be provided.
- 1.15 A back-up internal reserve memory with override must be provided.
- 1.16 The protection class of the unit shall be at least IP 65.
- 1.17 A lightweight transport box with internal document pocket is to be provided.
- 1.18 All control units must fulfil the Electro-Magnetic Compatibility regulations in accordance with the latest European standards.

Specification

Operating Temperature Range (Min).	:	-10 to +45 Deg C
Operating Voltage Range (min)	:	190 V to 265 V, 40 to 70 Hz
Output Voltage	:	39 to 40 V
Enclosure Protection	:	IP 54 class1
Input Cable length	:	Minimum 3 meters
Output Cable length	:	Minimum 3 meters

TECHNICAL SPECIFICATIONS FOR COMPRESSION FITTINGS

90 DEG COMPRESSION ELBOW WITH METAL INSERT

One end of the Metal threaded compression Elbow will be with Taper male threads & other end will have compression fitting suitable to connect to PE pipe. The Taper male threads will be pressure tight. Pressure rating will be PN16.

Body, Nut and Thrust Ring will be injection moulded from Polypropylene and UV stabilized body & thrust ring black in colour, Nut blue in colour. Lip gaskets in Food safe Rubber (NBR) black colour must have a conical shape on inside of gasket for easy insertion of pipe & with two lips on bottom to guarantee good sealing. Use of O ring not permitted. Clamp ring material will be Poly-acetal (POM) white colour and shall not be connected to thrust ring. Male threaded part will be made of SS 304. The product will be tested as per below

<i>Type test</i>	<i>Standard</i>
Dimensions of the threads	ISO 7/1
Tightness of the joints	ISO 3458
Tightness of the joints when subjected to bending	ISO 3503
Resistance to pull-out	ISO 3501
Internal under-pressure test	ISO 3459
Long term pressure test	ISO/DIS 14236

90 DEG COMP ELBOW with COMPRESSION JOINT BOTH ENDS

The Compression Elbows will have compression ends in both sides, so that PE pipes can be connected at both ends. Pressure rating will be PN 16.

Body, Nut and Thrust Ring will be injection moulded from Polypropylene and UV stabilized body & thrust ring black in colour, Nut blue in colour. Lip gaskets in Food safe Rubber (NBR) black colour must have a conical shape on inside of gasket for easy insertion of pipe & with two lips on bottom to guarantee good sealing. Clamp ring material will be Poly-acetal (POM) white colour and shall not be connected to thrust ring. Product should be KIWA approved.

The product will be tested as per below

<i>Type test</i>	<i>Standard</i>
Dimensions of the threads	ISO 7/1
Tightness of the joints	ISO 3458
Tightness of the joints when subjected to bending	ISO 3503
Resistance to pull-out	ISO 3501
Internal under-pressure test	ISO 3459

FEMALE THREADED ADAPTER with METAL OFFTAKE

One end of the Female adaptor with metal off take will be with female threads & other end will have compression fitting suitable to connect to PE pipe. The Taper male threads will be pressure tight. Pressure rating will be PN16.

Body, Nut and Thrust Ring will be injection moulded from Polypropylene and UV stabilized body & thrust ring black in colour, Nut blue in colour. Lip gaskets in Food safe Rubber (NBR) black colour must have a conical shape on inside of gasket for easy insertion of pipe & with two lips on bottom to guarantee good sealing. Clamp ring material will be Poly-acetal (POM) white colour and shall not be connected to thrust ring. Female threaded part will be made of SS 304. Product Should be KIWA approved.

The product will be tested as per below

<i>Type test</i>	<i>Standard</i>
Dimensions of the threads	ISO 7/1
Tightness of the joints	ISO 3458
Tightness of the joints when subjected to bending	ISO 3503
Resistance to pull-out	ISO 3501
Internal under-pressure test	ISO 3459
Long term pressure test	ISO/DIS 14236

UPVC BALL VALVES (STOP TAP)

The U PVC ball Valves will have Compression end on one side to connect PE Pipes and female threading on the other side for connecting BSP threaded fittings or pipes. The product shall conform to ISO 4422-4 Standards and pressure rating will be PN 16. The product should be suitable for use in drinking water for human consumption.

Body, Nut and Thrust Ring will be injection moulded from Polypropylene and UV stabilized body & thrust ring black in colour, Nut blue in colour Lip gaskets in Food safe Rubber (NBR) black colour must have a conical shape on inside of gasket for easy insertion of pipe & with two lips on bottom to guarantee good sealing. Clamp ring material will be Poly-acetal (POM) white colour and shall not be connected to thrust ring.

The Compression Fittings & U PVC Ball Valves for drinking water applications should have undergone type test by WRc-NSF, U.K. according to BS 6920 and a certificate from either WRc-NSF or WRAS (Water Regulations Advisory Scheme) should be available evidencing this fact. Product should be KIWA approved.

**SPECIFICATIONS FOR MULTIJET CLASS – B DOMESTIC/COMMERCIAL WATER METERING SYSTEM
(SIZE 15 mm to 25 mm)**

Sl. No.	Parameters	Specification
1	Meter Size and overall dimensions	Nominal diameter of the meters shall be 15mm, 20mm. & 25mm Meter threads, nominal flow rate, minimum length of threads on either side; overall dimensions shall be as per table 2 of IS 779 or table 1 of ISO 4064-1.
1	Scope of Application	The meter will be used for the measurement of cold, chlorinated potable water.
2	Applicable Standards	The meter shall conform to both IS 779 and ISO (4064) standards with latest Amendments. The meters would be supplied with EEC /MID Marked.
	Meter Type	The meters shall be: Multi-jet Inferential meters Super dry dial Hermitically sealed Class B, 360 degree orient able totalizer
	Protection class	IP-68 totalizer
	Accessories	The meter shall include the following accessories: <ul style="list-style-type: none"> • Two sets of Brush nut & Nipples. • The meter shall be supplied with a tubular strainer in the inlet of the water meter with at least 12 holes/cm²
	Flow rate	Minimum, maximum and transition flow shall be as per IS 779-1994
	Accuracy Class	The accuracy of the meter shall be in accordance with ISO 4064 class B and IS 779 – 1994 and its latest amendments.
	Pressure and Temperature	Pressure and Temperature shall be in accordance with ISO 4064 class B and IS 779 – 1994 and its latest amendments.
	Pressure Loss	The pressure loss shall be in accordance with ISO 4064 class B, and IS 779 – 1994 and its latest amendments.
	Seal	The meter shall be sealed by the manufacture before delivery and shall be provided with a hole for sealing the meter with the service line on the inlet and out let side of the meter.
	Material	All the materials used to construct/ manufacture customer meters shall confirm to Appendix B of IS 779 or clause 4.7 of ISO 4064-1. in particulars the following: <ul style="list-style-type: none"> • Cap cover shall be made of engineering plastic. • Strainers shall be made of engineering plastic. • Impeller shall be made of Engineering Plastic. • Impeller shaft shall be either SS 07Cr18Ni9 of IS 6911 – 1992 • Materials which come in contact with the water supply shall withstand 2 ppm (parts per million) of chlorine residual in the water supply and shall be resistant to corrosion. • The water meter and accessories shall be manufactured from materials of adequate strength and durability. The materials, which come in contact with the potable water, shall not create a toxic hazard, shall not support microbial growth, and shall not give rise to unpleasant taste or discoloration in the water supply. However, the spindle and bearings inside the hydraulic chamber shall be made of polished stainless steel with hard metal tip and sapphire. • Furthermore the internal pressure cup should overlap the meter body. The lower case of the meter shall be painted with thermal painting externally. The painting materials should be safe for human uses and not affect human health The painting colour shall be blue. • Construction: Meter shall be as per clause 9 of IS 779 – 1994 or relevant clauses of ISO 4064-1. Each meter will be supplied with two cylindrical nipples or tail pieces with connecting nuts. Threads on the connection shall conform to latest version of IS 2643 (part 1 to3) or ISO 228-1. All meters shall be supplied with an easily

		removable tubular inlet strainer. The Seal & Sealing wires shall be rust proof material like engineering plastic.
Mechanical Meter	<p>The Totalizer and Totalizer Shield :-</p> <ul style="list-style-type: none"> The totalizer copper can mineral glass envelop, shall be designed in such a way that if the totalizer protective glass is broken for a reason or another the totalizer cannot be removed from its place. The totalizer protective cover shall be made of sturdy glass and shall have a thickness of not less than 5mm. Study glass is defined as the ability of the counter protection glass to withstand, without damage, <p>Totalizer :-</p> <ul style="list-style-type: none"> It shall be of straight reading type The totalizer shall register in cubic meter units The totalizer shall be set at 0 (zero) The totalizer shall consist of a row of minimum four on-line consecutive digits to read at least 9999 m³ as per ISO 4064 / IS 779 - 1994. Another three digits or pointers shall register flows in litres and be of a red colour. The totalizer or any part of it shall be capable of being repaired. copper can mineral glass envelop The totalizer should be of open type. The totalizer must be suitable for test on an electronic test bench. The protection class of the totalizer should be IP 68. The totalizer should be prepared for remote reading. The remote reading feature must be able to be added without taking the meter from the pipe or dismantling the meter. 	
	<p>The totalizer shall be designed in such a way that if the totalizer protective lens / material are broken for any reason, the totalizer cannot be removed from its place.</p> <p>The totalizer shall be : Copper can mineral glass envelop. It shall be set to Zero at the factory, excepting the volume registered while testing the meters at the factory. Hermetically sealed, extra dry type. It shall consist of a row of minimum four on-line consecutive digits to read at least 9999.99 (4+2 digits) m³ or KL as per ISO 4064 / IS 779 - 1994. It should be capable of 360 degree orientation for ease in reading.</p>	
Impeller and Impeller Chamber	The pivot of the impeller should be guaranteed against any corrosion or damage for at least three years after the first installation. The impeller chamber shall be resistant to corrosion.	
Meter Markings	<p>The water meter shall be marked with the following identifications:</p> <ol style="list-style-type: none"> Direction of water flow with an arrow indicating the direction. Trade mark and/or name of the Manufacture. The metrological class and on rate in m³ per hour. The Manufacture's Serial number of the meter permanently affixed to the meter's upper or lower case. Property marking / printing over cap cover can be mentioned the name of concerned ULB if required. Year of manufacturing printed on the counter or engraved on the head ring. 	
Compatibility with the Water Meters	<p>End units must have a robust structure that is as resistant as possible to vandalism. End units that are sealed, have an antenna, and are integral part of the water.</p> <p>The manner in which end units are installed must not cause any</p>	

		hindrance to reading the water meter scale. The scale must be readable in the same manner and convenience as prior to the installation of the end units.
	Resistance to Weather Conditions	End units must be resistant to extreme weather conditions, including the following: Temperatures ranging from -5°C to 50°C. Relative humidity from 5% to 95%. Rain The level of resistance for end units must be IP68.
	Resistance to Noise, Electrical and Radio Disturbances	Ability to operate in a noisy electrical environment with electromagnetic disturbances (EMI) Ability to operate in an environment with radio frequency interference (RFI) including those emanating from the activities of the communication system wavelength. Protection against current fluctuations and lightning according to international codes and requirements.
	General Characteristics	End units must identify the movement of the dial and count the pulses, or identify the numbers absolutely. End units that read the water meter in a more precise manner - such as absolute encoder or absolute counter will constitute an advantage. Meters must have scan time ability that enables reading in a resolution of 1 liter in a 3/4" meter with a maximum output of 5,000 litres per hour. End units must be able to diagnose fluctuations in the dial as a result of fluctuations in the water flow. A system that performs this function by reading the movement of the dial/wheel that counts in two points (creating a pulse only when the dial/wheel passes over two points) will constitute an advantage. Reading at 3 points (enabling identification of backward flow) will constitute an additional advantage. Another advantage will be a more reliable reading method, such as an absolute counter or even more so, an absolute encoder. End units must identify backward flow and calculate the amount on the electronic counter (program) separately. End units that are installed on main lines must be able to identify flow in two directions (such as using 3 points in the rotation cycle of the counter dial/ wheel). Information logged in end units must include at least: The end unit ID number The water meter ID number Water meter reading/Current volume Parameters for integration into the communication network End units must include a time clock synchronized with the system clock (for a two-way end unit) and have data logging ability according to time intervals predetermined by parameters. End units must identify and report low battery power. End units must identify "small leaks" by continuous consumption over a long period of time (such as 5 hours).
	Shipping Containers	The water meters shall be packed in corrugated carton boxes containing not more than twenty (20) meters each.
	Test	The contractor will take necessary action to carry out life test in accordance with IS 779-1994 from the reputed laboratory at his own cost prior approval and acceptance of supplies materials.
	Criteria for acceptance	If the first sample, the number of defective meters is less than or equal to the corresponding col. Of table 4 of IS 779-1994, the lot shall be declared as passing the acceptance test. If the number of defective meters is greater than or equal to the corresponding rejection number then the similar test to be carried out from 2 nd sample, failing which supplied meter will be declared as unacceptable and the contractor is liable to replace entire supplied meter at his own cost.

SPECIFICATION FOR HOUSE SERVICE CONNECTIONS

Before providing House Service Connections, Service Provider shall collect a list of authorized consumers from the client on daily /weekly / monthly basis. After getting such list from the client; Service Provider shall have to identify each consumer at site and a notice shall have to be served by the Service Provider to each consumer at site and a notice shall have to be served by the Service Provider to each consumer at least 7 days in advance stating that new service connection shall be provided at their respective premises along with water meters. In case of any difficulty to locate any consumers at site by the Service Provider, client representative shall have to be accompanied with the service provider to locate the client at site of all the meters.

Location of placing water meters shall have to be mutually decided by the service provider and the consumer. No meters shall be installed inside, bath room / wash room / toilets / bed room / dining hall or any other rooms. Meter shall have to be installed in such a location that it can be accessed easily and chances of theft are minimum. Preference shall be given that meter shall be installed within 1 meter distance from the compound wall of consumer premises.

All the damages made on the compound wall for providing service connection shall have to be restored by the Service Provider. Any damages made on the floor / PCC / tiled / mosaic etc. shall be restored by the Service Provider with Plain Cement Concrete (PCC) and neat cement finish. No tiles / mosaic shall be replaced by the Service Provider.

Brick chamber shall have to be fixed firmly on the floor along with Water Meters and pipes. Where Brick meter chamber neat cement finish inside after plastering Inside & Top sides as per approved drawing provided by the ULB. If no such drawing is available with the ULB then Service Provider shall have to prepare a drawing and the same shall have to be approved by the client before starting the work at site.

Service Provider shall not be responsible to connect a new service connection with the existing network of the consumer (inside the premises) for which consumer shall have to be made his own arrangement.

One no. ball valve & one No. NRV shall have to be provided on the upstream and downstream side of Water Meters. Service Provider shall be responsible for the maintenance of upstream side valve along with Water Meter for the guarantee / warranty period. Valve located on the downstream side of the meter shall have to be maintained by the consumer.

During installation of water meter it shall be sealed against installation by the Service Provider.

If any drain is available on the periphery of the consumer premises then a metallic casing pipe shall have to be provided by the Service Provider. Any damages made on the drain shall be restored by the Service Provider. All the excavation and trenches made for providing the Service Connection shall have to be filled up by the Service Provider as per standard engineering practices or relevant I.S. Code.

Before starting job at site for providing House Service Connection, Service Provider shall impart training to all employees on following subject:

- Ñ Safety Awareness
- Ñ Environment Management System Awareness
- Ñ Customer Orientation
- Ñ Safe working procedure

Once above trainings are imparted then schedules are prepared and following actions shall be taken:

- Ñ Housekeeping Plan of the job,
- Ñ Job Safety Plan
- Ñ Method statement

Installation of Domestic Meter:

- Ñ Location of water meters shall have to be finalized in consultation with consumers.
- Ñ MDPE / HDPE pipe shall have to be laid in the trench with sand cushion inside the trench
- Ñ In case of stone / concrete surface MDPE / HDPE pipe shall have to be laid with clamps at interval of 750 mm c/c
- Ñ Water Meters shall have to be installed as per manufacturer specification.
- Water Meters shall have to be checked by showing the Meter-Reading and Meter-testing as per satisfaction of Engineer-in-Charge may be showed by the Service Provider.

- Ñ After installation of water meters sites are to be restored to its original condition.

After installation of water meters to the consumer's premises roads and road flanks to be restored to its original condition.

If required location may be changed to another wards and roads may be boring whereas possible as per instruction of Engineer-in-Charge.

- Ñ After installation of water meters records are to be maintained in the standard form,
- Ñ Information related to Water Meter Installations shall have to be handed over to client
- Ñ Check list for providing House Service Connection shall have to be prepared by the Service provider and the same has to be filled up properly after completion of the job and signature shall have to be obtained from the respective authority / person. Feedback Form shall have to be designed by Service Provider and necessary feedback of consumer shall have to be recorded properly.

Sd/-
Chairman, Bankura Municipality

INSTRUCTION TO BIDDERS

SECTION - A

1. General guidance for e-Tendering:-
Instructions/ Guidelines for tenders for electronic submission of the tenders online have been annexed for assisting the contractors to participate in e-Tendering.
2. Registration of Contractor:-
Any contractor willing to take part in the process of e-Tendering will have to be enrolled & registered with the Government e-Procurement system, through logging on to <https://wbtenders.gov.in>. The contractor is to click on the link for e-Tendering site as given on the web portal.
3. Digital Signature certificate (DSC):-
Each contractor is required to obtain a class-II or Class-III Digital Signature Certificate (DSC) for submission of tenders, from the approved service provider of the National Information's Centre (NIC) on payment of requisite amount details are available at the Web Site stated in Clause 2. DSC is given as a USB e-Token.
4. The contractor can search & download NIT & Tender Documents electronically from computer once he logs on to the website mentioned in Clause 2 using the Digital Signature Certificate. This is the only mode of collection of Tender Documents.
5. Submission of Tenders:
General process of submission:
Tenders are to be submitted online through the website stated in Cl. 2 in two folders as per tender schedule, one is Technical BID (Part-I) & the other is Financial BID (Part-II) before the prescribed date & time using the Digital Signature Certificate (DSC). The documents are to be uploaded virus scanned copy duly Digitally Signed. The documents will get encrypted (transformed into non readable formats).

(A) TECHNICAL PROPOSAL

The Technical proposal to be submitted in the following two covers (Folders):

(A-1) Statutory Cover Containing:

Following Scanned Documents are to be uploaded virus scanned and digitally signed by the Bidder:-

- (a) N.I.T.
- (b) Technical Documents
- (c) Municipal Tender Form (No rates to be given)
- (d) Vendor List
- (e) Prequalification Forms (Section-B, Form-I)
- (f) Scanned copy of EMD

[Note: At the time of submission of technical bid (online), bidders eligible for exemption of EMD has to select exempted: yes and then upload the undertaking / exemption G.O.]

(A-2).Non-Statutory Cover Containing:

Following Scanned Documents are to be uploaded virus scanned and digitally signed by the Bidder:-

- (a) West Bengal GST Registration / PAN / P. Tax Clearance Certificate.
- (b) Income Tax Acknowledgement Receipt for last assessment year as per last audited financial year.
- (c) Affidavit (Declaration by the Bidder).
- (d) Trade License, Labour License Certificate etc.
- (e) Registration Certificate under Company Act. (if any).
- (f) Registered Deed of Partnership Firm / Article of Association & Memorandum.
- (g) Power of Attorney (For Partnership Firm / PriGSTe Limited Company, if any).
- (h) Audited Balance Sheet & Profit & Loss A/c for last three Financial Year.
- (i) Experience Certificate for completion of similar nature of work.
- (j) Scanned copy of Original Credential Certificates.

All Corrigendum & Addendum Notices, if any, have to be digitally signed & uploaded by the Bidder in the Declaration Folder of My Documents.

(B) Financial Proposal (Pat-II):

The financial proposal should contain the following documents in one cover (folder) i.e. Bill of quantities (BOQ) the contractor is to quote the rate online through computer in the space marked for quoting rate in the BOQ. Only downloaded copies of the above documents are to be uploaded virus scanned & Digitally Signed by the contractor.

5.1. Submission of Earnest Money:

Quoted Bid price in two parts. 2% of the Quoted Bid price in two parts initially Rs. 2,00,000.00 (Rupees Two lakh) may be deposited only through net banking at the time of dropping bid documents and the rest amount of EMD if any shall be deposited at the time of acceptance of the bid.

6. Opening & evaluation of tender:-

6.1. Opening of Technical proposal

i. Technical proposals will be opened by the Chairman, Bankura Municipality, alongwith Directorate or his authorized representative electronically from the web site using their Digital Signature certificate.

ii. Intending tenderers may remain present if they so desire.

iii. Cover (folder) statutory documents (vide Cl. No. 5.A-1) should be open first & if found in order, cover (Folder) for non-statutory documents (vide Cl. No. – 5.A-2) will be opened. If there is any deficiency in the statutory documents the tender will summarily be rejected.

iv. Decrypted (transformed in to readable formats) documents of the non-statutory cover will be downloaded & handed over to the tender evolution committee.

6.2. Uploading of summary list of technically qualified tenderers

i. Pursuant to scrutiny & decision of the Superintending Engineer, South Circle, MED/Executive Engineer, Bankura Division. MED the summary list of eligible tenderers will be uploaded in the web portals.

ii. While evaluation the Superintending Engineer, South Circle, MED/Executive Engineer, Bankura Division, MED may summon the tenderer & seek clarification/ information or additional documents or original hard copy of any of the documents already submitted & if these are not produced within the stipulated time frame, their proposals will be liable for rejection.

6.3. Financial proposal

i. Financial proposals of the tenderers declared technically eligible by the Superintending Engineer, South Circle, MED/Executive Engineer, Bankura Division, MED will be opened electronically from the web portal stated in Clause 2 on the prescribed date, by the Chairman, Bankura Municipality, Bankura.

ii. The encrypted copies will be decrypted and the rates will be read out to the contractors remaining present at that time.

iii. However, if there is any scope for lowering down of rates, further negotiation meeting with the lowest bidder may be held at the office of the Chairman, Bankura Municipality, Bankura on recommendation of Superintending Engineer, South Circle, MED/Executive Engineer, Bankura Division, MED and it will be done offline. The final negotiation statement shall be uploaded in the website.

iv. The Financial Proposal shall be evaluated by the Chairman, Bankura Municipality, Bankura for scrutiny and approval on recommendation of Superintending Engineer, South Circle, MED/Executive Engineer, Bankura Division, MED and/or Technical Committee as applicable. Final summary result containing inter-alia, name of contractors and the rates quoted by them shall be uploaded provided he is satisfied that the rate obtained is fare and reasonable and there is no scope of further lowering down of rate.

7. Award of contract:-

The tender accepting authority reserves the right to accept or reject any Bids and to cancel the Bidding processes and reject all Bids at any time or distribute the work prior to the award of Contract without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders on the ground for tender accepting authority's action. The Bidder who's Bid has been accepted will be notified by the Tender Inviting & Accepting Authority through acceptance letter. The notification of award will constitute the formation of the contract. The agreement in W.B.F. no. 2911(ii) will incorporate all agreements between the Tender Accepting Authority and the successful bidder.

Sd/-
The Chairman
Bankura Municipality

SECTION – B:
[Forms to be submitted by the tenderer]
FORM –I

PRE-QUALIFICATION APPLICATION

To
The Chairman,
Bankura
Municipality,
Bankura

Ref.:- Tender for the work of-----

N.I.T. No. ----- of The Chairman, Bankura Municipality, Bankura

Dear Sir,

Having examined the Statutory, Non Statutory & NIT documents, I / We hereby submit all the necessary information and relevant documents for evaluation.

**The application is made by me / us on behalf of ----- in the capacity ----
----- duly authorized to submit in order.**

The necessary evidence admissible by law in respect of authority assigned to us on behalf of the group of firms for Application and for completion of the contract documents is attached herewith.

We are interested in bidding for the work(s) given in Enclosure to this letter.

We understand that:

(a) Tender Inviting & Accepting Authority/Engineer-in-Charge can amend the scope & value of the contract bid under this project.

(b) Tender Inviting & Accepting Authority/Engineer-in-Charge reserve the right to reject any application without assigning any reason.

Enclose: - e-Filling

- 1. Statutory Documents**
- 2. Non Statutory Documents**

**Signature of applicant including title
and capacity in which application is made.**

Date: -

AFFIDAVIT - "A"

(To be furnished in Non - Judicial Stamp Paper of appropriate value duly notarized)

a. I, the under-signed do certify that all the statements made in the attached documents are true and correct. In case of any information submitted proved to be false or concealed, the application may be rejected and no objection/claim will be raised by the under-signed.

b. The under-signed also hereby certifies that neither our firm M/s. _____ nor any of constituent partner had been debarred to participate in tender by the Municipal Engineering Directorate during the last 5 (five) years prior to the date of this NIT.

c. The under-signed would authorize and request any Bank, person, Firm or Corporation to furnish pertinent information as deemed necessary and/or as requested by the Department to verify this statement.

d. The under-signed understands that further qualifying information may be requested and agrees to furnish any such information at the request of The Department.

e. Certified that I have applied in the tender in the capacity of individual/as a partner of a firm & I have not applied severally for the same job.

Signed by an authorized officer of the firm

Title of the officer_____

Date:

Seal:
