

Basirhat Municipality



Basirhat , North 24 Parganas , Pin-743411

E-mail ID:- basirhatmunicipality@yahoo.com

Website:- www.basirhatmunicipality.in

Memo No. :- 3161

Dated:30/05/2022

NOTICE INVITING e-TENDER

Tender Notice No.:- WBMAD/BASIR/HSC/E-01 OF 2022-23



The Chairperson, Basirhat Municipality, on and for behalf of the Board of Councillors of Basirhat Municipality invites sealed competitive e-Tender on item rate basis from reliable ,resourceful ,bonafide and experience Companies/ Firms/ Contractors having financial capability and sufficient technical credential for execution of said work of value not less than 40% of the tender value/Quantity in single contract within last five 5(Five) financial year from the date of NIT in any Government/Semi Government /Undertakings /Autonomous/ Local Bodies. The details noted below in Annexure -A the eligibility and depicted here under for participating in the e-Tender

SI. No	Name of the Work	Estimated Amount (Rs.)	Earnest Money (Rs.)/ Tender Idor SL No.	Period of Completion
1.A/	House service water Connection to 4100 nos of Premises upto private property line with 20mm MDPE (PE100, PN16) with necessary connection accessories including Water Meter and restoration of damages of road/pavement etc. under Part-for Water Supply Scheme under AMRUT within Basirhat Municipality	Item Rate Tender	Initial Earnest Money – Rs. 1,00,000.00 lakhs only) Balance Earnest Money will be as detailed in Sl. No. 6	180 days
1.B	House service water Connection to 4350nos of Premisesupto private property line with 20mm MDPE (PE100, PN16) with necessary connection accessories including Water Meter and restoration of damages of road/pavement etc. under Part-II for Water Supply Scheme under AMRUT within Basirhat Municipality	Item Rate Tender	Initial Earnest Money – Rs. 1,00,000.00 lakhs only) Balance Earnest Money will be as detailed in Sl. No. 6	180 days
1.C	House service water Connection to 3800nos of Premisesupto private property line with 20mm MDPE (PE100, PN16) with necessary connection accessories including Water Meter and restoration of damages of road/pavement etc. under Part-III for Water Supply Scheme under AMRUT within Basirhat Municipality	Item Rate Tender	Initial Earnest Money – Rs. 1,00,000.00 lakhs only) Balance Earnest Money will be as detailed in Sl. No. 6	180 days
1.D	House service water Connection to 3600nos of Premisesupto private property line with 20mm MDPE (PE100, PN16) with necessary connection accessories including Water Meter and restoration of damages of road/pavement etc. under Part-IV for Water Supply Scheme under AMRUT within Basirhat Municipality	Item Rate Tender	Initial Earnest Money – Rs. 1,00,000.00 lakhs only) Balance Earnest Money will be as detailed in Sl. No. 6	180 days

1.E	House service water Connection to 4400nos of Premisesupto private property line with 20mm MDPE (PE100, PN16) with necessary connection accessories including Water Meter and restoration of damages of road/pavement etc. under Part-V for Water Supply Scheme under AMRUT within Basirhat Municipality	Item Rate Tender	Initial Earnest Money – Rs. 1,00,000.00 lakhs only) Balance Earnest Money will be as detailed in Sl. No. 6	180 days
1.F	House service water Connection to 4250 nos of Premisesupto private property line with 20mm MDPE (PE100, PN16) with necessary connection accessories including Water Meter and restoration of damages of road/pavement etc. under Part-VI for Water Supply Scheme under AMRUT within Basirhat Municipality	Item Rate Tender	Initial Earnest Money - Rs. 1,00,000.00 lakhs only) Balance Earnest Money will be as	180 days

2.	Earnest Money		ForNle-T-
	Worldy		2% of the Quoted Bid price in two parts, viz
	dinoceály ireles sast Firms: Comercons ha 47% of the rundarion	a.	Rs. 1,00,000.00 (Rupees one lakh only) as an initial Earnest Money Deposit sha accompany with Bid Proposal through online payment system (ICICI payment Gateway infavour of the "Chairman, Basirhat Municipality,"
	toerchies in constant toerchies for periodical	ESTORE	Note- Earnest Money will be deposited by the bidder through the following payment mode as per Finance Department Order No. 3975-F(Y) dated 28th July, 2016 (Annexure – A) – Net banking (any of the banks listed in the ICICI Bank Payment gateway) in case of payment through ICICI bank payment gateway.
	Tunder Iden St. No.	b.	EM Deposit i.e. 2% of bid amount beyond Rs. 100000.00 (if any) shall have to b deposited after acceptance of Bid Proposal.
	Retes con		Coto privado proyechy lust with 20mm MDME (PC 600) Political and observancy observancy observancy observancy observancy observance and observance observan
3.	Scope of Work:		Work includes
J.	remed emel		Providing Supply, Installation, Fittings, Fixing, Testing and Commissioning of House
	as of the recol		Water Supply Connections, with MDPE Pipe 20mm dia., & P.E. Compression EF fittings
	9 OH S H 15 S = C		20mm, Excavation, all short of Bituminous / Concrete Road Up to depth of D.I.
	teamed in Jugar		Distribution Pipe line, Cuttings Fittings, Fixing, MDPE / P.E. pipe fittings up to Meter Box, inside/outside, to consumer premises average 12 mtrs, Including permanent
	Leoney Ps.		restoration of the existing Bituminous / Concrete/Brick pavement/Paver Block road to its
	atta 00.000 oct		original condition ,damages of Under Ground Drainage line, Electrical lines, Tele phone
			lines other water supply line, Crossing drain line through G.I. (Medium) Casing pipe
	25 AC DE DESCRIPTION		Including Leakage Testing, supply of MDPE Pipes 20mm dia. PE 100, PN 16, 12 Mtrs.
	S all to all light and		(Average), PE Both side Compression Elbow 90 deg. 2 nos. PE one side Compression other side SS insert F thread, Elbow 90 deg. 1 nos. P.E. Adopter with SS inserts M/F
	Laborator - Laborator		Thread-Compression 2 nos. PE Compression Ball Valve, (excess quantity of fittings
	- 25 - ENTER		should be provided as per site condition), 1 no. Ferrule of Gunmetal Confirming to IS
	10.000 (0.000 pt)		2692/1984 (reaffirmed 2005) 1 no. NRV 1no. P.E. Meter Box/ Cabinet with Common
	The state of the s		Lockable Key, Length 325mm, Width 245mm, Height 175mm. Suitable for Cover Meter,
	136 na 2 0 misse		PVC Ball Valve, Back filling with Silver sand over Ferrule up to Road Level and also remove surplus Earth from Road side, including Supply, Delivery, unloading and
	25 of the year.		proper staking and proper installation at site of 15mm dia. Multi jet type Water
	D 1041 19 10 D010150		Meter 1 no. Must be AMR Computable, Class B, +/- 2%, IS 779 / ISO 4064, Admissible
	Japanes Samuel		Pr. Max. 16 Kg/Cm ² 360 degree Orientable, CybalCoumputable, Magnetic transmission
	Money - Rs.		drive, Cooper can Mineral Glass 5mm Thik Envelop, Extra dry Dial, Totalizer, Protection
	31/61 00.000,60,1		Class IP 68, Strainer Inbuilt, MID/EEC/ISI Certification Marked, with Brass Nuts &
	tauns) sonsist		Nipples. Water Meter Typical Performance.
	as ad the yearshi		i)Starting flow :- ≤10 L/Hr.
	detailed in St. No. 6		ii) Accuracy from +/- 5% :- 30 L/Hr.
		1	iii)Accuracy from +/- 2% :- 120 L/Hr.
			iv)Max. Flow +/- 2% :- 3000 L/Hr.
			Vendor list approved by P.H.E. Dte. Vide no. 20110-125/80/l/2011 Dated 02.12.2011 of
			C.E. (Mechanical-Electrical) & Chairperson of vendor enlistment Committee P.H.E. Dte.
			(Execution as per direction of EIC). fixing of meter as per direction of EIC.

		House Water Supply Connection Through 20mm dia. MDPE Pipes. Note:-Entire work will be covered under 5 years Defect Liability Period (time will be reckoned from the date of completion certificate issued by the competent Authority).
4.	Refund of SD Money:	As per Govt. Order Bearing No.G.O.No-5784-PW/L&A/2M-175/2017 date. 12.09.17
5.	Time of completion	Time of completion of the Contract is 180 calendar days from the date of issue of Work Order.

- In the event of e-Filing intending bidder may download the tender document from the website directly by the help of Digital Signature Certificate.
- In the event of online submission, both technical Bid (Part-I) and Financial Bid (Part-II) will be submitted concurrently
 duly digitally signed in the Websitehttp://wb.tender.gov.in

3. Eligibility criteria for participation intender:

i. Tenderer must have physically completed at least one similar nature of works within the qualifying period i.e. in the last five financial years having 40% number of connections with respect to BOQ provision in this tender.

OR

Tenderer with the experience of lying of pipe line having physically completed equivalent to 40% of the value of work in a single contract (not less than Rs. 1.15crore).

OR

Intending tenderers should produce credentials of 2(two) similar nature of completed work, each of the minimum value of 30 % of the estimated quantity/amount (not less than 85 lakh in each wok) during 5(five) years prior to the date of issue of the tender notice.

OR

Credential of one single running work of similar nature which has been completed to the extent of 80 % or more and the value of which is not less than the desired quantity/ value at 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 the tender. In the required certificate it should be clearly stated that the work in progress satisfactorily and also that no penal action has been initiated against the executing agency, i.e. the tenderer.

The eligibility will be determined by the completion certificate supported with work order and price schedule of the work completed.

However, the eligibility may also be determined by the payment certificate of the work completed.

- ii. Having annual turnover of equivalent to 60 lakh or above in any one year of last three Financial years.
- iii. Tenderers should submit Bank Solvency Certificate of not less than 30 lakh from their banker / bankers issued within last 12 (twelve) months from the publication of this NIT regarding financial capability. [Non-Statutory Documents].
- IV.In case of Proprietorship and Partnership Firms and Company the Tax Audited Report to be furnished along with balance sheet.
- V.The intending tenderer will have to produce the following information / data / credentials / certificates etc. to the undersigned along with the prayer for obtaining permission to participate in the tender.

- a. Having valid G.S.T. Certificates.
- b.PAN Number etc.
- c.Employees' PF and ESI Certificate from the competent Authority.
- d. Income Tax return receipts for the last financial year (2020-21).
- e. Valid documents in support of Audited Annual Turnover in full 3CD format.
- f. Professional Tax clearance receipt. (Up to date)

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 financial bid will be opened.

VI. Each Tenderer shall submit their tender offer marked Part-I and Part-II. The Part-I shall contain "TECHNICAL PART OF THE OFFER & COMMERCIAL TERMS" and Part-II shall contain "PRICE BID".

vii. Tenderer should quote their rates on each Item, both in figures and in words.

1. Date & Time Schedule: -

SI NO.	Particulars	Date and Time
	Date of uploading of NIe-B. and Bid Documents online) (Publishing Date)	31/05/2022
)	Documents download/sell start date (Online)	31/05/2022 at 09:00 hrs
S raw lo	Date of Pre-Bid Meeting with the intending bidders In the office of the Superintending Engineer, East Circle, Municipal Engineering Directorate, AB 30/1, Prafullya Kanon, Kestopur, Kolkata 700101	
	Bid submission start date (On line)	31/05/2022 at 09:00 hrs
j	Bid Submission closing (On line)	23/06/2022 upto 16:00 hrs
) de princip	Bid opening date for Technical Proposals (Online)	27/06/2022 upto 09:00 hrs

7	Date of uploading list for Technically Qualified Bidders (online)	To be notified later
8		To be notified during uploading of Technical Evaluation Sheet of Bidders
9	Date of uploading of list of qualified bidders along with the offer rates through (on line)	To be notified later.
10	Also, if necessary for further negotiation through offline for final rate.	To be notified later.

- 4. The partnership firm shall furnish the registered partnership deed and the company shall furnish the Article of Association and Memorandum. [Non-Statutory Documents].
- 5. Where there is a discrepancy between the rate in figures & words the rate in words will govern.
- 6. Constructional Labour Welfare Cess @ 1 (one) % of cost of construction will be deducted from every progressive bill. GST, Royalty & all other statutory levy / Cess will have to be borne by the contractor & the rate quoted by them should be inclusive of all the taxes &cess etc.
- 7. Earnest Money: 2% of the Quoted Bid price in two parts, viz. the requisite Earnest Money, as specified in this N.I.T shall be paid through online payment system in favour of the "Chairman, Basirhat Municipality, "Balance Earnest Money Deposit if any shall be deposited after acceptance of Bid Proposal. Every such payment through online bank transfer shall be made on or after the date

of publish of N.I.T. At the time of uploading the Tender, the intending Tenderer shall upload a scanned copy of such receipt of online payment along with his/her quotation. Any tender without document (Excepting exemption as per G.O.) shall be treated as informal and shall automatically stands cancelled.

Tender will be declared informal if earnest money is not submitted in prescribed form.

The original copy of the receipt etc. only in case of L1 Bidder towards Earnest Money will be submitted in sealed envelopes in the Office of the Chairperson, Basirhat Municipality, with his acceptance letter of the L1. Failure to submit the hard copy with the acceptance letter within the time period prescribed for the purpose may be construed as an attempt to disturb the tendering process and dealt with accordingly legally including blacklisting of the bidder.

- 8. **Security Deposit**: Security Deposit @ 1%(one percent) / as per prevailing Govt. Order, will be deducted from each and every running bill in addition to Earnest Money deposit of 2% The entire deducted amount will be refunded without any interest only after successful completion of the whole work in all respect as after full satisfaction of E.I.C. 30% of the Security Deposit money shall be refunded on expiry of 4 (four) years and balance 70% shall be refunded after expiry of 5 (five) years from the date of completion of the work as par Notification No. 5784-PW/L&A/2M-175/2017 dt. 12.09.2017 of Principal Secretary, PWD and relevant clause of Form no. 2911.
 - *****The running bill shall be paid on the basis of fully completed connections. No payment shall be made for supply of Water Meters or for incomplete connection.
- 9. No conditional/ incomplete tender will be accepted under any circumstances.
- 10. The Chairperson, Basirhat Municipality, reserves the right to cancel the N.I.T. due to unavoidable circumstances and no claim in this respect will be entertained.
- During scrutiny, if it comes to the notice of the tender inviting authority that the credential or any other papers submitted are found incorrect / manufactured/fabricated, that tenderer will not be allowed to participate in the tender and that application will be out rightly rejected without any prejudice.
- 12. 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.
- Qualification Criteria

The Tender Inviting & Accepting Authority through an 'Evaluation Committee' will determine the eligibility of each bidder, the bidders shall have to meet all the minimum criteria regarding: -

- a) Financial Capacity
- b) Technical Capability comprising of personnel & equipment capability (NIT Part-I)
- c) Experience

The eligibility of a bidder will be ascertained on the basis of the self-attested 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 bidder is either manufacture or false, in such cases the eligibility of the bidder / tenderer will be rightly rejected at any stage without any prejudice.

Chairperson
Basirhat Municipality

Chairperson
Basirhat Municipality

Memo No .:-

Copy forwarded for kind information to:

- 1) The State Mission Director, AMRUT, and Joint Secretary, M.A. & amp; U.D. Department, Nagarayan Bhawan, Salt Lake City, Kolkata.
- 2) The Chief Engineer, Municipal Engineering Directorate, BikashBhavan, Saltlake, Kolkata.
- 3) The Chief Engineer, KMDA, W & S, Unnayan Bhavan, DJ 11, Scc II, Salt Lake, Kolkata
- 4) The Director, State Urban Development Authority, ILGUS Bhavan, Salt Lake, Kolkata.

5) The District Magistrate, North 24 Parganas District, Barasat.

6) The Additional Chief Engineer (South), ME Dte.

- 6) The Superintending Engineer, East Circle, Municipal Engineering Directorate, AB 30/1, Prafullya Kanan (West), Krishnapur, Baguiati, Kolkata. (for information and taking necessary action).
- 7) The Executive Engineer, Municipal Engineering Directorate, North 24 Parganas Division, M.E.Dte., Barasat
- 8) The Executive Officer, Basirhat Municipality.
- 9) The Finance Officer, Basirhat Municipality.
- 10) The Nodal Officer, Basirhat Municipality, AMRUT.

Chairperson Basirhat Municipalit

Chairperson **Basirhat Municipality**

JENERAL SPECIFICATIONS OF MATERIALS TO BE USEDFOR HOUSE CONNECTIONS

DI Strap Saddle required for providing house service connectionson DI/CI mains.

General specification:

Strap saddles shall be suitable for CI/DI pipes of nominal size 100 mm to 450 mm with nominal outlet connection size from ½", ¾" & 1" BSP female thread.

The body shall be **Resicoat® epoxy** coated with thickness>250 micron as per GSK standard & EN14901. The saddles shall be single type up to pipe sizes of NB 300 and service outlet of ½",

3/4" and 1" BSP female thread.

Fasteners shall be of threaded nut-bolt-washer type. Nut-bolts of size 1/2" (M12) shall be used. Saddle strap shall be with NBR protection rubber.

The sealing between the saddle and mains shall be obtained by using a profiled elastomeric seal matching to the curvature of the pipe. The seal shall be of NBR elastomeric type, suitable for all potable water applications.

The clamp saddles shall be suitable for online tapping with spatula & drilling tool, maximum working pressures up to 16 bars.

Material and Design Specifications

Saddle body:DI GGG40 with **Resicoat® epoxy** (for corrosion protection of fittings) coating with length 172 mm, width 75 mm, height 67 mm & thread depth 24.5mm. The body shall have retaining cavity housing for internal and external retention of the elastomeric seal. Sealing shall be achieved by pressure exerted by the body while fastening the saddle straps & body on the pipe.

Saddle strap: Saddle straps shall be made of stainless steel 304 grade, gauge 16 & width 40mm to prevent corrosion over the long service life & should be with no weld joint to avoid inconsistency of strength.

Strap Protection Rubber: NBR UV protected Elastomeric (rubber) shall be such that none of the Stainless-Steel Strap is in direct contact with the pipe. It shall ensure a firm non slip grip mounting on the pipe due to external loading.

Saddle seal: It shall be virgin rubber NBR Class 70 complying with EN 682-2002. It shall be of type pressure activated hydro-mechanical design. It shall be contoured gasket to provide a positive initial seal which increases with increase in the line pressure. Gasket shall be, with the outlet section having o-ring contacting the saddle body.

Nuts – Bolts- Washer: Stainless Steel Type 304, NC rolled thread, Tightening torque for½" (M12) nut-bolt: 14-15 kg m.

MDPE Pipe for House ServiceConnection:

Pipes shall be made out of MDPE raw materials and it must have WRc, KIWA approvals. The pipes shall be conforming to ISO: 4427, PN16.

The pipes should have carried all mechanical and chemical properties in accordance to ISO: 4427only. 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 is 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 taping 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 asminimum.

All units are to be provided with a single push button start and have additional information recoverable.

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 4KWA.

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 65Hz.

The units are to operate with a stabilized fusionvoltage.

The range of fusion voltage is to be between 39 and 40volts.

The display shall be scratch-resistant, back-lit, be easily readable, have an adjustable contrast function and give relevant information suchas:

- · Recognition of fitting type, dimension andmanufacturer
- Resistance of connectedfitting
- · A check-system prior to commencement of fusionprocess
- · Actual running and final fusion time inseconds
- Primary voltage andfrequency
- · Ambienttemperature.
- · Individual fusion number and unitnumber
- Mode of datatransfer
- Appropriate coolingtime

A temperature sensor is to be provided.

Theminimumoperatingrangeofambienttemperaturesistobebetween-10° and +45°C and the unit must be equipped with an external ventilator for continual operation.

The unit must be capable of recognizing and processing different manufacturer's products.

Adapter clips for 4 mm terminal pins are to beavailable.

An external memory bank must be able to record at least 450 fusion records and be easily accessible and exchangeable.

The complete control unit must be contained in one single housing and not exceed amaximum weight of 21 kilograms including all standard primary and secondarycables.

The supplier must be able to provide a full range of system software and data transmission accessories as applicable for dataprocessing.

The ability to download fusion records from all memory systems via an RS 232 interface is to be provided.

A back-up internal reserve memory with override must to be provided.

The protection class of the unit shall be at least IP65.

A lightweight transport box with internal document pocket is to be provided.

All control units must fulfil the Electro-Magnetic Compatibility regulations in accordance with the latest Europeanstandards.

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 SS304.

The product will be tested as per below

Type test	Standard
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. Use of O ring not permitted. 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

Type test	Standard
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 pressuretight. 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. Female threaded part will be made of SS 304. Product Should be KIWAapproved.

The product will be tested as per below

Type test	Standard
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 confirm 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. Use of O ring not permitted. Clamp ring material will be Poly-acetal (POM) white colour and shall not be connected to thrustring.

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.

PECIFICATIONS FOR MULTIJET CLASS - B DOMESTIC/COMMERCIAL WATER METERING SYSTEM (SIZE 15 mm to 25 mm)

SI. No.	Parameters	Specification	
TENE PORT	152 L 32 LT 100	Nominal diameter of the meters shall be 15mm, 20mm & 25mm Meter	
	Meter size and	threads, nominal flow rate, minimum length of threads on either side;	
91.6173161	overall dimensions	overall dimensions shall be as per table 2 of IS 779-1994 or table I of ISO 4064 (Part I)	
2	Scope of Application	The meter will be used for the measurement of cold, chlorinated potable water.	
3 6 6 1	Applicable Standards	The meter shall conform to both IS:779-1994 and ISO:4064 (Part I) standards with latest Amendments. The meters would be supplied with ISI/EEC/MID Marked	
4	Meter Type	The meters shall be: Multi-jet Inferential meters Super dry dial Hermitically sealed Class B, preferably 360 degree orientable totalizer.	
5	Protection class	IP-68 totalizer	
		The meter shall include the following accessories:	
	ya no bahas aswoo le	i) Two sets of Bnish nut and Nipples.	
6	Accessories	ii) The meter shall be supplied with a tubular strainer in the inlet of the water meter with holes not less than twice the area of nominal inlet bore of the pipeline to which it is fitted.	
7	Flow rate	Minimum, maximum and transition flow shall be as per relevant	
8	Accuracy	The maximum permissible error in the metering accuracy of the meter, when determining as per IS 6784:1984 shall be as under;	
		1. In the lower region of flow [Qmin (inclusive) toQt (exclusive)] ± 5%	
belos	treat shall be suitableanth	2. In the upper region of flow [Qt (inclusive) to Qmax (inclusive)) ± 2%	
9	Pressure and Temperature	Pressure and Tempemture shall be in accordance with ISO 4064 class B and IS 779-1994 and its latest amendments.	
10	Pressure Loss	The pressure loss shall be in accordance with ISO 4064 class B, or Clause 10.2 of IS 779-1994 and its latest amendments.	
11	Seal	Sealing holes shall be provided and the meter shall be sealed in such a manner as to rende impossible to obtain access to the measuring units including registration box and cap without breaking the seal. The sealingwires shall be of rust free.	
12	Material	All the materials used to construct / manufacture customer meters shall confirm to Appendix B of IS 779-1994 or clause 4.7 of ISO 4064 (Part I) o Plastic used in the manufacture of various components listed under Annexure B shall satisfy all provisions as depicted under Clause No. 6.1.1 of IS 779-1994	
	on the consecutor	uniformic activities as Em 8500 results.	
	Trans to trees and bend	Another three drafts or portion areal registry	

103	AW JAIDSCHAM	 The meter shall be constructed as per Clause No 7 of IS 779-1994 or reclauses of ISO 4064 (Part 1). Each meter will be supplied with two cylindrics nipples or tail pieces with connecting nuts. Threads on the connection shall conform to latest version of IS 2643 (part 1 to 3) 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. Meter size &overal dimension of meter shall conform to Clause No 9 of IS 779-1994 or relevant clauses of ISO 4064 (Part I) Connections: The meter casing shall be fitted in the pipeline by means of two
	Appellants (The Papellants)	cylindrical nipple or tail pieces with connecting nuts which shall be provided with each meter. Thetheads on connections shall conform to IS 2643 (Part 1 to 3)-1975
		 Impeller and Piston: Impelier and impeller shaft assembly shall rest on a self lubricating bearing which has as low frictional resistance as possible.
13	Construction	 Impeller chamber &Measureing Chamber: The impeller chamber and measuring chamber shall be rigid and shall not change its form as a result of internal stress of with use.
	HISTORY HIT WILLIAM	 Dial: The dial shall be of vitreous enamel power coated on copper or plastic ensuring indestructible marking and good legibility
	A finade of scoons	 Indicating Device: Indicating Device shall be able to record 9999 kl(min) for metersize up-to 25mm. The kilo litres and its multiple shall be indicated in black and suit multiple of kilo litres in red. For digital indicator, the visible displacement of all digits shall be upward in value. The unit symbol 'KILO LITRES' shall appear in the immediate visibility of digital indications.
	Tellesiani	 immediate vicinity of digital indications. Frost Protection: Meter liable to damage by frost shall be suitableprotected.
	Michael & or Sauce III. seasodin such a manua. budhy regen hous hou	n The totalizer copper / plastic can mineral glass envelop, shall be designed in such a wa 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 sha have i thickness of not less than 5mm. Sturdy glass is defined as the ability of the counterprotection glass to withstand, without damage.
	nders felts presentant	Totalizer:-
14	Mechanical Meter	 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 /p1astic 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 shall be designed in such a way that if the totalizer protective lens / material are broken kom any reason, the totalizer cannot be removed from its place.
45		It shall be set to Zero at the factory, excepting the volum registered while testing the meters at the factory. Hermetically sealed, extra dry type.
15		It shall consist of a row of minimum four on-line consecutive digits to
		read at least 9999.99 (4+2 digits) m3 ot KL as per ISO 4064 fls 779-1994. It preferably be.
		capable of 360 degree orientation for ease in reading'
16	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 impellerchamber shall be resistant to corrosion.
	Compatibility with the	End units must have a robust stricture that is as resistant as possible to vandalism. End units that are sealed, have an antenna, and are integral part of the water meter and cyble pre

Resistance to Noise, Electrical and Radio Electrical and Radio Protection against current fluctuations and lightning according to International codes and requirements.	17	Water Meters	equipped / cyblecompatible.	
Resistance to Weather Conditions Resistance to Weather Conditions Resistance to Weather Conditions The level of resistance for establishing the following: Temperatures ranging from - 5°C to 500°C Relative humidity from Sets to 95%. The level of resistance for end units must be IP68. Ability to operate in a noise electrical environment with electromagnetic disturbances (EMI) Ability to operate in an environment with radio frequency interferences (RFI) including those emanating from the activities of the communication system wavelength. Protection against current fluctuations and lightning according to international codes and requirements. End units must identify the movement of the dial and count the pulses, or identify the number 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 I litter in a 34" meter with a maximum output of 5,00 litres per hour. End units must be able to diagnose fluctuations in the dialwhelp passes over two points; with constitute an advantage. Reading at 3 points (enabling identification of hackward flow) with constitute an advantage. Nater advantage will be a more reliable leading 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 counte (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 manufacturer must carried out all test as specified in Clause No. 12 of IS 779-1994 or relevant clauses of ISO 4064 (Part I) or ECC by a recognized testing authority. The Report of test shall be furnished in accordance with IS 6784-1984. However, the manufacturer / Supplier is liable carry out life Test			The manner in which end units are installed must not cause any hindrance	
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Each water meter shall be marked / embossed with the following information: 1. Manufacturer's name or Trade Mark. 2. Nominal size and class of water mater 3. Direction of flow of water on both sides of the body of water meter. 4. Year of manufacture and serial number			defective meters or whole lots as the case may be at his	
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22 Marking 2. Nominal size and class of water mater 3. Direction of flow of water on both sides of the body of water meter. 4. Year of manufacture and serial number				
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Year of manufacture and serial number			CONTROL SECTION CONTROL CONTRO	
5. BIS/EEC/ISO/MID Certificate Marking				

23	Shipping Containers	The water meters shall be packed in corrugated cartoon boxes containingnot more than (20) meters each.	
24	Check List	Each water meter shall be supplied with a check list giving below:	
		Check that seal and serial no of the water meter is intact.	
		2. Check test certificate giving test results for pressure tightness, loss oi pressure, metering	
		accuracy and minimum starting flow.	
		3. Check that the meter is installed according to the direction of flow marked on the meter	
		Check that the strainer is not removed.	

ECIFICATION FOR HOUSE SERVICE CONNECTIONS

Before providing House Service Connections, Service Provider shall collect a list of authorized consumers from the client on monthly basis. / verbal 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 30 days in advance stating that new service connection shall be provided at their respective premises along with water meters. / Making holding list, 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 easily accessed in side 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.

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 to be provided on the upstream & one No. NRV shall have downstream of the meter and Cover with PE meter box.

Downstream side of the meter shall have to be connected to their existing line and 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 G.I. (Medium) casing pipe shall have to be provided by the Service Provider. All the excavation and back filling trenches made for providing the Service.

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

- SafetyAwareness
- Environment Management SystemAwareness
- CustomerOrientation
- Safe workingprocedure

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

- Housekeeping Plan of thejob,
- Job SafetyPlan
- Methodstatement

Installation of Domestic Meter:

- Location of water meters shall have to be finalized in consultation withconsumers.
- MDPE / HDPE pipe shall have to be laid in the trench with sand cushion inside the trench
- In case of stone / concrete surface MDPE / HDPE pipe shall have to laid with clamps at interval of 750 mmc/c
- Water Meters shall have to be installed as per manufacturerspecification.
- After installation of water meters sites are to be restored to its originalcondition.
- After installation of water meters records are to be maintained in the standardform,
- Information related to Water Meter Installations shall have to be handed over to client
- 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 ecordedproperly

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.

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.

- 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.
- 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) TECHNICALPROPOSAL

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

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

2). Non-Statutory Cover Containing:

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

(a) G.S.T. returns Certificate.

(b) Income Tax Acknowledgement Receipt for last assessment year asper last audited financialyear.

(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 / Private 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.

Scanned copy of Original Credential Certificates.

Intending Bidders should upload Non-Statutory documents as per following folders in My Document:

SI. No.	Category Name	Sub Category Description	Details	Remarks
A	CERTIFICATES	CERTIFICATES	1.G.S.T. Certificate 2. Income Tax Acknowledgement Receipt. 3. Employees' PF & ESI Certificate	hopid yan
В	COMPANY DETAILS	COMPANY DETAILS-I COMPANY DETAILS-II	Proprietorship Firm(Trade License) Partnership Firm (Partnership Deed, Trade License). Ltd. Company(Incorporation Certificate, Trade License) 4.Power of Attorney Society (Society Registration copy, Trade License)	elf notes un elf notes a yoursis
С	CREDENTIAL	CREDENTIAL-1	Similar Nature of Work Done or as specified above. Completion Certificate	dis-out N
D	DECLARATION	DECLARATION	Corrigendum and Addendum (if any) Additional Document If Any	arths pres med capus
Е	EQUIPMENT	principal to research	bargoron, Sacrat Municipally de lacore	r es 30
F	FINANCIAL INFO	WORK IN HAND	rese, recivil de l'o quita divenur, billo medit en Chaffe	PERFECT
	2020-2021	PAYMENT CERTIFICATE 1 PAYMENT CERTIFICATE 2	balance Sheet (With Annexure and 3CD Form in case of Tax Audit)	lo nobsed to soloria to soloria tris ment y
	2019-2020	P/L AND BALANCE SHEET	balance Sheet (With Annexure and 3CD Form in case of Tax Audit)	- fastivos mortus y
	2018-2019	P/L AND BALANCE SHEET	balance Sheet (With Annexure and 3CD Form in case of Tax Audit)	ad mela- so ed Es.
G	MANPOWER	TECHNICAL PERSONNEL	List of Technical Staffs along with Structure of the Organization.	n (condu.)
		TECHNICAL PERSONNEL ON CONTRACT		

Note: -Failure of submission of any of the above-mentioned documents (as stated in A1 & A2) will render the tender liable to summarily rejected for both statutory & non statutory cover.

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:

2% of the Quoted Bid price in two parts, vice the requisite Earnest Money, as specified in this N.I.T shall be paid through online internet bank transfer on any Nationalized Bank/Scheduled Bank in favour of the Chairman, Basirhat Municipality payable at **Basirhat**, **North 24 Parganas**. Balance Earnest Money Deposit if any shall be deposited after acceptance of Bid Proposal. Every such every such payment shall be made through online internet bank transfer on or after the date of publish of N.I.T. At the time of uploading the Tender, the intending Tenderer shall upload a scanned copy of such receipt of online payment along with his/her quotation.

6. Opening & evaluation of tender: -

Opening of Technical proposal

- i. Technical proposals will be opened by the Chairman, Basirhat Municipality, along with Directorate or his authorized representative electronically from the web site using their Digital Signature Certificate.
- Intending tenderers may remain present if they so desire.
- 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 berejected.
- iv. Decrypted (transformed in to readable formats) documents of the non- statutory cover will be downloaded & handed over to the tender evolution committee.

Uploading of summary list of technically qualified tenderers

- Pursuant to scrutiny & decision of the Superintending Engineer, East Circle, MED/Executive Engineer, North 24 Parganas Division, MED. The summary list of eligible tenderers will be uploaded in the web portals.
- While evaluation the Superintending Engineer, East Circle, MED/Executive Engineer, North 24 Parganas 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.

Financial proposal

- Financial proposals of the tenderers declared technically eligible by the Superintending Engineer, East Circle, MED/Executive Engineer, North 24 Parganas Division, MED will be opened electronically from the web portal stated in Clause 2 on the prescribed date, by the Chairperson, Basirhat Municipality,
- The encrypted copies will be decrypted and the rates will be read out to the contractors remaining present at that time.
- 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 Chairperson, Basirhat Municipality on recommendation of Superintending Engineer, East Circle, MED/Executive Engineer, North 24 Parganas 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 Chairperson, Basirhat Municipality for scrutiny and approval on recommendation of Superintending Engineer, East Circle, MED/Executive Engineer, North 24 Parganas 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.
- 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.

Chairperson
Basirhat Municipality
Chairperson
Basirhat Municipality