SUPERINTENDING ENGINEER
CONTRACTS & MONITORING

Chennai Metropolitan
Water supply
and
Sewerage Board

No.1, Pumping Station Road, Chennai - 600 002
FAX : 044-2845 4336 E-Mail:secandm@gmail.com

Lr. No. CMWSSB/CNT/WSS/NCB/TNIDB/002/2025-26 Dt:15.07.2025

To

Sir,

Sub: CMWSSB - C&M Wing – Procurement, Testing, Installation, Commissioning, Operation and Maintenance of 1.0 Lakh smart Water Meters with Associated Communication and Billing System in Chennai City under Hybrid Annuity Model (HAM) – e-Tender invited – Addendum - IV has been prepared – forwarded - Reg

Ref : Tender No. CNT/WSS/NCB/TNIDB/002/2025-26

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With reference to the above work, the Addendum - IV has been prepared and enclosed herewith. You are requested to take these Addendum - IV into due consideration while submitting your bid. All the other terms and conditions already stipulated remain unaltered.

The bid documents will be available for submission up to 3.00 P.M. on 22.07.2025. The Tender can be uploaded up to 3.00 P.M. on 22.07.2025. The Tender will be opened on 23.07.2025 from 3.30 P.M. onwards.

You are requested to acknowledge the receipt of this letter.

SUPERINTENDING ENGINEER (C&M)

Encl : 1. Confirmation Letter – Pg. 2
2. Addendum – IV - (Pg. 3-16)

ADDENDUM - IV

Name of Work: Procurement, Testing, Installation, Commissioning, Operation and Maintenance of 1.0 Lakh smart Water Meters with Associated Communication and Billing System in Chennai City under Hybrid Annuity Model (HAM).

Tender No: CNT/WSS/NCB/TNIDB/002/2025-26

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We have taken into due consideration of the Addendum - IV while submitting our bid.

Signature of the bidder

Name and Address of the bidder

CHENNAI METROPOLITAN WATER SUPPLY & SEWERAGE BOARD

ADDENDUM IV

TO
BIDDING DOCUMENT

For
TENDER NO: CNT/WSS/NCB/TNIDB/002/2025-26

PROCUREMENT, TESTING, INSTALLATION, COMMISSIONING, OPERATION, AND MAINTENANCE OF 1.0 LAKH SMART WATER METERS WITH ASSOCIATED COMMUNICATION AND BILLING SYSTEM IN CHENNAI CITY, UNDER HYBRID ANNUITY MODEL (HAM)

ADDENDUM IV

Sl. No	Document	Clause /Sub Clause (Section and Page No.)	Original Clause As Existing in Bid Document	As amended on 27.06.2025	As amended on 11.07.2025
PART-I: BIDDING PROCEDURES					
17	Concession Agreement Volume II	Concession Agreement ARTICLE 12 CONSTRUCTION OF PROJECT FACILITIES Clause 12.3 Specification for Software and Communication	Within 90 (ninety) days of COD, the concessionaire shall deposit the Source Code of the software program with the Authority or with such other agency that the Authority may direct for the purpose of safekeeping the Source code.	Within 90 (ninety) days of COD, the concessionaire shall deposit the Source Code of the software program with the Authority **or shall, at its cost, place it with an Escrow Service Provider for the purpose of safekeeping the Source code. The Concessionaire and the Authority shall agree upon the Escrow Service Provider with whom the Source Code shall be placed for safe keeping.** **It is clarified that references to deliverable of Source Code to the Authority, in the Schedules to this Agreement, shall include safe keeping with an Escrow Service Provider including Schedule S**	Within 90 (ninety) days of COD, the concessionaire shall deposit the Source Code of the software program **(Applicable for Software exclusively developed for this Project)** with the Authority or with such other agency that the Authority may direct for the purpose of safekeeping the Source code.
18	Concession Agreement Volume II	Concession Agreement Schedule B DEVELOPMENT REQUIREMENTS Deliverables	Source Code will be handed over to the IT Division, CMWSSB along with compiled version and executables. Any software developed shall be the property of CMWSSB. Software, Documents, Information and other elements of the project shall have the copyrights of CMWSSB unless some copy	CMWSSB along with compiled version and executables or **shall, at its cost, place it with an Escrow Service Provider for the purpose of safekeeping the Source code. The Concessionaire and the Authority shall agree upon the Escrow Service Provider with whom the Source Code shall be placed for safe keeping.** Any software developed shall be the property of CMWSSB. Software, Documents,	Source Code **(Applicable for Software exclusively developed for this Project)** will be handed over to the IT Division, CMWSSB along with compiled version and executables. Any software developed shall be the property of CMWSSB. Software, Documents,

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<tr><td></td><td></td><td></td><td>right material is used with due permission of any third party.</td><td>Information and other elements of the project shall have the copyrights of CMWSSB unless some copy right material is used with due permission of any third party.</td><td>Information and other elements of the project shall have the copyrights of CMWSSB unless some copy right material is used with due permission of any third party.</td></tr>
<tr><td>28</td><td>Price Schedule</td><td>Item Rate BOQ Sl.No. 15</td><td>Total Civil Cost including GST (A = A1+A2+A3)</td><td>Total Civil Cost (A = A1+A2+A3)
For details please refer the BoQ sheet</td><td>Deleted</td></tr>
<tr><td>29</td><td>Price Schedule</td><td>Item Rate BOQ Sl.No. 23</td><td>Total Price for Smart Water Meters including installation and GST (B=B1+B2+B3+B4+B5)</td><td>Total Price for Smart Water (B=B1+B2+B3+B4+B5)
For details please refer the BoQ sheet</td><td>Deleted</td></tr>
<tr><td>30</td><td>Price Schedule</td><td>Item Rate BOQ Sl.No. 35</td><td>Total Cost for Software Development including GST '(C=C1+C2)'</td><td>Total Cost for Software Development (D=D1+D2)
For details please refer the BoQ sheet</td><td>Deleted</td></tr>
<tr><td>31</td><td>Price Schedule</td><td>Addition Sl No. ____</td><td></td><td><table><tr><td>C</td><td colspan="2">CAPITAL COST FOR COMMUNICATION GATEWAYS, SERVERS, SWITCHES, MODEMS AND ALL ASSOCIATED HARDWARE</td></tr><tr><td></td><td>C1</td><td>Communication Gateways (including associated power supply systems)</td></tr><tr><td></td><td>C2</td><td>Servers</td></tr><tr><td></td><td>C3</td><td>Switches</td></tr><tr><td></td><td>C4</td><td>Modem</td></tr><tr><td></td><td>C5</td><td>Any other hardware</td></tr><tr><td></td><td colspan="2">Total Price for Communication Hardware including installation and GST (C=C1+C2+C3+C4+C5)</td></tr></table>For details please refer the BoQ sheet</td><td>Deleted</td></tr>
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32	Price Schedule	Addition Sl. No. ____		E. Miscellaneous For details please refer the BoQ sheet	Deleted
33	Price Schedule	Item Rate BOQ Sl No 42	O&M FOR FIRST YEAR, TOTAL (D=D1+D2+D3+D4)	TOTAL O&M FOR FIRST YEAR (F=F1+F2+F3+F4) For details please refer the BoQ sheet	Deleted
36	Price Schedule	Item Rate BOQ	Item Rate BOQ Price Schedule		Refer Revised BID PRICE SHEET

CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD

Name of Work: Procurement, Testing, Installation, Commissioning, Operation, and Maintenance of 1.0 Lakh Smart Water Meters with Associated Communication and Billing System in Chennai City, under Hybrid Annuity Model (HAM)

Tender No. CNT/WSS/NCB/TNIDB/002/2025-26

BILL OF QUANTITY FORM - FOR REFERENCE
{To be uploaded only on to the Portal (Financial Bid) as a Pdf File & Not to be submitted in the Technical Bid}

Sl. No		Description	Quantity	Unit	Unit Rate Rs. P	Amount in Rs. P	Amount in Words)
A	**CAPITAL COST ON CIVIL WORKS INCL ALL TAXES OTHER THAN GST**						
	A1.	**Smart Water Meter fixing charges with specials**					
		Supplying the specials and pipes for Fixing of Smart water meters including MDPE Pipes & Specials (Union, Male Threaded Adaptor, U PVC ball valve, Coupler & GM Non return Valve and any other necessary specials based on site conditions) for the following sizes in the following sizes					
	A1-1	DN 15	79326	No			
	A1-2	DN 20	18753	No			
	A1-3	DN 25	1848	No			
	A1-4	DN 32	34	No			

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Sl. No	Description		Quantity	Unit	Unit Rate Rs. P	Amount in Rs. P	Amount in Words)
	A1-5	DN 40	39	No			
		Total for Smart Water Meter fixing charges with specials (A1)					
	A2	**Surface Box**					
		Supply and delivery of protection box of size 20cm x 30cm for fixing of Water Meter. The box should be rectangular base in construction and material of construction should be weather resistant polyethylene (PE) blue /black. Reinforcement rips should be provided at the walls of the box. Box should be at two components comprising body and lid. Lid should be press fitted to the body. No hinges should be used for opened /closed. Operation meter box should be provided with built in lock. The body as inlet and outlet windows to pass the pipe through suitable for use	22019	No			

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Sl. No		Description	Quantity	Unit	Unit Rate Rs. P	Amount in Rs. P	Amount in Words)
		with pipes of sizes up to 1" Base of the box should be designed in such a way That the box can be installed to the floor/wall using anchor Bolts / screws without grouting the entire base of the meter Box. Provision for fixing Name plate showing the name of the Department etc., complete and as directed by the CMWSS Board Officers.					
	A3	**Construction of Meter Chambers**					

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Sl. No	Description	Quantity	Unit	Unit Rate Rs. P	Amount in Rs. P	Amount in Words)
	Construction of Meter chambers with earth work excavation for foundation, 23cm thick concrete bed using 40mm Brick jelly concrete in C.M. 1:4:10 for foundation, brick work in C.M. 1:6 for chambers, plastering with C.M. 1:3 12mm thick, benching, channelling, Supplying and fixing 45cmx45cm FRC cover and Frame etc., complete for 60 x 60 x 150cm	63209	No			
	Total Civil Cost (A = A1+A2+A3)					
B	**CAPITAL COST ON SMART WATER METERS INCL. ALL TAXES OTHER THAN GST**					
	Supplying, Installation, testing and commissioning of battery-operated AMI Ultrasonic/ Electromagnetic Smart water meters for the following sizes					

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Sl. No	Description		Quantity	Unit	Unit Rate Rs. P	Amount in Rs. P	Amount in Words)
	B1	DN 15 (with standard Warranty of 12 years)	79326	No			
	B2	DN 20 (with standard Warranty of 12 years)	18753	No			
	B3	DN 25 (with Standard Warranty of 12 years)	1848	No			
	B4	DN 32 (with Standard Warranty of 12 years)	34	No			
	B5	DN 40 (with Standard Warranty of 12 years)	39	No			
	Total Price for Smart Water Meters including installation (B=B1+B2+B3+B4+B5)						

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C	**CAPITAL COST FOR COMMUNICATION GATEWAYS, SERVERS, SWITCHES, MODEMS AND ALL ASSOCIATED HARDWARE AND SOFTWARE DEVELOPMENT FOR COMMUNICATION AND BILLING SYSTEM INCLUDING INTEGRATION**						
	C1	**Supply of Communication Gateways, Servers, Switches, Modems and all Associated Hardware**					
	a.	Communication Gateways (including associated power supply systems)					
		* Include the Type of Gateway & Its Specifications					
		Type I :					
		Type II :					
	b.	Servers					

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Sl. No	Description		Quantity	Unit	Unit Rate Rs. P	Amount in Rs. P	Amount in Words)
	c.	Switches					
	d.	Modem					
	e.	Any other hardware					
		Total Cost for Supply of Communication Gateways, Servers, Switches, Modems and all Associated Hardware (C1)					
	C2	**Software meter reading (HES)**	1	LS			
	C3	**Software meter data management meter reading (MDMS)**					
	1	Registration , Activation, Geo Tagging of all field devices	1	LS			
	2	Installation, Commissioning, Integrating with Gateways, Switches, Modems and Network servers.	1	LS			
	3	Integration of network servers or telecom network with Head End	1	LS			

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Sl. No	Description		Quantity	Unit	Unit Rate Rs. P	Amount in Rs. P	Amount in Words)
		Systems.					
	4	Head End System design, development as per devices and communication protocol and selection of Radio /wireless technology. APIs, Port management, Protocol Server, Load Balancing, Device Management, Network Management etc.	1	LS			
	5	Meter Data management Systems, Analytical reports, Export, Graphs, Maps with various layers, Complaint, Alert Management, Third party APIs	1	LS			
	6	Integration with CMWSSB Billing, APIs development, Consumer data mapping on MDMS, Integration of billing with Consumer Apps, etc.	1	LS	I		
	7	Consumer App with various services, Meter reading, Bill Communication and Payment etc.	1	LS			

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Sl. No	Description		Quantity	Unit	Unit Rate Rs. P	Amount in Rs. P	Amount in Words)
	8	Field staff App with Complaint management, Reading management, Reporting etc.	1	LS			
		Total of Software meter data management meter reading (MDMS), C3	1	LS			
	Total Cost for Software Development '(C=C1+C2+C3)'						
D	**FIRST YEAR OPERATIONS AND MAINTENANCE COST INCL ALL TAXES OTHER THAN GST**						
	O&M of entire metering system including serving demand notice to the consumers in a digital form						
	D1	Civil Assets - O&M including insurance etc	On A above	%	0.50%		
	D2	Meters - O&M including AMC, replacements, insurance etc	On B above	%	3.00%		
	D3	Software O&M including AMC, replacements, insurance etc	On C above	%	5.00%		

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Sl. No	Description		Quantity	Unit	Unit Rate Rs. P	Amount in Rs. P	Amount in Words)
	D4	All other O&M Costs	1	LS			
	TOTAL O&M FOR FIRST YEAR (D1+D2+D3+D4)						
	BID COST EXCLUDING GST, TOTAL in Rs.						
	GST @18%						
	BID COST, TOTAL in Rs.						

Sd/-11.07.2025
Managing Director