

CORRIGENDUM-01

NIT No.- 13/MD/PSCL/2019

Dated- 06.06.2019

Request for Proposal for "Selection of System Integrator for Design, Development, Implementation and Operation & Maintenance of Integrated Solid Waste Management System in Patna Municipal Area" under Smart City Mission.

Prospective bidders are advised to take note of the following changes (given in first 3 parts) together with technical specifications of RFID reader and Volume Sensor given in the fourth part (which was not provided in the RFP earlier), while submission of bids; which are in the accordance with the pre-bid replies uploaded earlier on the website:

PART-1:

Activity	As per RFP	Revised as
Online Sale/Download date of Tender documents	From 15.06.2019 (10:00 Hrs) Till 5.07.2019 (17.00Hrs) (www.eproc.bihar.gov.in) (Under Patna Nagar Nigam)	From 15.06.2019 (10:00 Hrs) Till 12.07.2019 (14:00Hrs) (www.eproc.bihar.gov.in) (Under Patna Smart City Ltd.)
Last date for submission of Bids (online) and hard copy.	06-07-2019 Till 15.00 Hrs	12-07-2019 Till 15.00 Hrs
Opening of Technical Bids	07-07-2019 At 16:00 Hrs	13-07-2019 At 16:00 Hrs
Cost of Bidding Document (Tender Fee)	Rs. 10,000/- to be paid through online mode on http://www.eproc.bihar.gov.in/BELTRON	Tender fee, Rs. 10,000/- to be paid in the form of Demand Draft in favor of Managing Director, Patna Smart City Limited payable at Patna. Hard copy of DD needs to be submitted along with hard copy of EMD in PSCL, however, scanned copy needs to be uploaded on http://www.eproc.bihar.gov.in/BELTRON

PART-2:

Activity	As per RFP	Revised as
3.5: Pre-Qualification Criteria- Bidder's competence on turnover from SI services:	The Bidder's average annual turnover from services related to Solid Waste Management Solutions & Integration during each of the last 3 audited financial years (2015-16, 2016-17, 2017-18) shall be 3 Crores	The Bidder's average annual turnover from services related to Solid Waste Management Solutions & Integration during the financial years 2015-16, 2016-17 and 2017-18 shall be 3 Crores.
3.5: Pre-Qualification Criteria- System functionality: The bidder will be marked on the basis of number of features present as a part of COTS (Financially-off-the-shelf) MSWM solution:	1. Grievance Redressal System 2. Role Based Mobile App across SWM hierarchy 3. Fleet Management system including driver's app, route planning, re-routing, alerts, destination information, etc. 4. Billing system for vendors of Municipal Corporation	1. Grievance Redressal System 2. Role Based Mobile App across SWM hierarchy 3. Fleet Management system including driver's app, route planning, re-routing, alerts, destination information, etc. 4. Billing system for vendors of Municipal Corporation

	<p>5. Attendance management including its biometrics for Field Workers 6. Integration with IoT devices compulsorily including Smart bins and automated weighbridge application 7. Dashboards and MIS for SWM system with Role Based Access Control and ranking module for people, divisions, etc. 8. Integration with SMS and Emails 9. Ability to host both on cloud and on in-premise system 10. Bilingual platform (compulsory languages – English & Hindi) configurable for each user.</p> <p>Note: 2 marks will be awarded based on the availability of features in proposed solution.</p>	<p>5. Attendance management including its biometrics for Field Workers 6. Integration with IoT devices compulsorily including Smart bins/ vehicle and automated weighbridge application 7. Dashboards and MIS for SWM system with Role Based Access Control and ranking module for people, divisions, etc. 8. Integration with SMS and Emails 9. Ability to host both on cloud and on in-premise system 10. Bilingual platform (compulsory languages – English & Hindi) configurable for each user.</p> <p>Note: 1 marks will be awarded based on the availability of features in proposed solution.</p>
3.5: Pre-Qualification Criteria-Training	<p>Trainings proposed by the vendor and the amount of emphasis laid on Training the employees schedule details, locations, sessions and their description</p> <p>Marks will be awarded as per the details below.</p> <p>Max Marks: 7</p>	<p>Trainings proposed by the vendor and the amount of emphasis laid on Training the employees schedule details, locations, sessions and their description</p> <p>Marks will be awarded as per the nature and module of training.</p> <p>Max Marks: 10</p>
3.5: Pre-Qualification Criteria- Certifications	<p>The bidder must have following certifications: ISO-9001: 2008 or above</p> <p>Max Marks: 8</p>	<p>The bidder must have following certifications: ISO-9001: 2008 or above.</p> <p>Max Marks: 10</p>
3.5: Pre-Qualification Criteria- Bidder's experience in sensor technology	<p>Marks will be awarded as per the nature of project and experience. Bidder should have experience of implementing software solution related to Solid Waste Management in any ULB/Government in India in last five years as on publication of RFP with minimum project value of Rs. 1 Cr. OR Bidder should have experience of implementing RFID based solution for fleet management in India for any ULB/Central /State Govt Departments/PSU in last five years as on publication of RFP with minimum project value of Rs. 1Cr.</p>	<p>Marks will be awarded as per the nature of project and experience. Bidder/OEM should have experience of implementing software solution related to Solid Waste Management in any ULB/Government in India in last five years as on publication of RFP with minimum project value of Rs. 1 Cr. OR Bidder should have experience of implementing RFID based solution for fleet management in India for any ULB/Central /State Govt Departments/PSU in last five years as on publication of RFP with minimum project value of Rs. 1Cr.</p>
3.5:Pre-Qualification Criteria-Industry specific capabilities	<p>The bidder must have successfully completed similar projects in India/globally in last 3 years: Note: Definition of similar nature projects is as follows: Project which involves development, deployment, integration and technical support for SWM System of a municipality/urban local body/government urban development authority. Weightages: In case project is completed (implementation and O&M) as per specified scope and the letter of satisfaction from the client is available: 100 % marks In case project is in progress and the letter</p>	<p>The bidder/OEM must have successfully completed similar projects in India/globally in last 3 years: Note: Definition of similar nature projects is as follows: Project which involves development, deployment, integration and technical support for SWM System of a municipality/urban local body/government urban development authority. Weightages: In case project is completed (implementation and O&M) as per specified scope and the letter of satisfaction from the client is available: 100</p>


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	of completion of implementation phase is available from the client: 80 % of specified marks	% marks In case project is in progress and the letter of completion of implementation phase is available from the client: 80 % of specified marks
5.1 Scope of Work	<ol style="list-style-type: none"> 1. The Smart Solid Waste Management System shall enable the level of solid waste, recycled waste, to be remotely monitored using wireless sensors installed inside the waste bin. 2. Registration/Geo-tagging and smart monitoring of all garbage bins and points. 3. RFID based system shall allow real-time tracking of waste collection system efficiency 4. Registration/Geo-tagging and smart monitoring of all Temporary Transit Station (TTS). 5. Smart mechanism for registering, monitoring and efficient and quick redressing of citizen grievances. 6. Implement a GIS/GPS enabled Solid Waste Management System to automate the entire process including online tracking of waste collection vehicles, their routes, and temporary transit stations (TTS) and attendance of public health workers. 6. Web based monitoring of each type of waste disposal separately. 7. Is solid waste collected properly from the bins? 8. Is the weight of the waste correct? 9. Tracking of solid waste with necessary checks-and-balances. 10. Process management of people, vehicles and other components involved to be monitored. 11. Daily, weekly, monthly reports on item-wise, dept. wise and activity wise details and the Consolidated Report generation on solid waste management site activity through the Command and Control Center should be made available with the real time captured data. 12. Decision support system that monitor process compliance, efficiencies and SLA monitoring shall be part of the project. 	<ol style="list-style-type: none"> 1. The Smart Solid Waste Management System shall enable the level of solid waste, recycled waste, to be remotely monitored using wireless sensors installed inside the waste bin/ Vehicles. 2. Registration/Geo-tagging and smart monitoring of all garbage bins/ Vehicles and points. 3. RFID based system shall allow real-time tracking of waste collection system efficiency 4. Registration/Geo-tagging and smart monitoring of all Temporary Transit Station (TTS). 5. Smart mechanism for registering, monitoring and efficient and quick redressing of citizen grievances. 6. Implement a GIS/GPS enabled Solid Waste Management System to automate the entire process including online tracking of waste collection vehicles, their routes, and temporary transit stations (TTS) and attendance of public health workers. 6. Web based monitoring of each type of waste disposal separately. 7. Is solid waste collected properly from the bins? 8. Is the weight/ volume of the waste correct? 9. Tracking of solid waste with necessary checks-and-balances. 10. Process management of people, vehicles and other components involved to be monitored. 11. Daily, weekly, monthly reports on item-wise, dept. wise and activity wise details and the Consolidated Report generation on solid waste management site activity through the Command and Control Center should be made available with the real time captured data. 12. Decision support system that monitor process compliance, efficiencies and SLA monitoring shall be part of the project.



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PART-3:


Sr No	Item as per Bill of Material	As Per RFP	Revised As
1	RFID Tags	3,00,000	3,00,000
2	RFID Reader Hand Hold	380	155
3	SWM Solution	As per scope of work	As per scope of work
4	Mobile Application	As per scope of work	As per scope of work
5	User Charge Collection System	As per scope of work	As per scope of work
6	Volume Sensors	250	250
7	GIS Route Map of Patna Municipal Corporation Area	As per scope of work	As per scope of work

PART-4: Technical specification of Volume Sensor & RFID Reader:

Volume Sensor Specifications	
Measurement Sensor	40KHz Ultrasonic sensor
Beam opening sensor measurement	30°
Depth Range	25cm – 450cm
Resolution	2cm
Enclosure Material	Completely Waterproof and Dustproof Enclosure Tough Polypropylene Plastic
Dimensions	96mm(L) x 70mm(W) x 35mm(H)
Weight	Approx 300g (with batteries)
Operating Temperature	(-)20C to +85C
Power	Battery Operated (non-rechargeable)
Battery Type/Size	Lithium Iron Disulphide/ Lithium Thionyl Chloride
Battery Lifetime	10 years
Battery Level Monitor	Battery charge state is monitored
Communications	Quad-band GSM/GPRS Engine EGSM 900MHz and DCS 1800MHz GPRS coding schemes CS-1, CS-2, CS-3 and CS-4
Antenna	Internal antenna
Data Logging	To User or Cloud based servers
Remote Configurability	Remotely Configurable Threshold Parameters like Bin Height, Polling Interval, Bin threshold levels for sending alarms
Optional Sensors	Can be optionally fitted with Temperature Sensor, Tilt Sensor and Accelerometer
RFID Reader Specifications	
Dimensions	192mm x 87mm x 151mm/ 7.56 x 3.43 x 5.94in
Weight	456g
Display	4'' WVGA (480*800), 16.7M colors
Keypad	4 TP touch key-press buttons


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Battery	Main battery: Li-ion, 4000mAh
Sensors	Light Sensor, Proximity Sensor
OS	Android 4.4
CPU	Cortex-A7 1.3GHz quad-core
RAM + ROM	1GB + 4GB
Operating Temperature	14°F to 122°F / -10°C to 50°C
Storage Temperature	-40°F to 158°F / -40°C to 70°C
Humidity	5%RH - 95%RH non condensing
Drop	Multiple 1.2m drops to concrete
Tumble	1000 x 0.5m/1.64ft falls at room temperature
Sealing	IP64
Radio Frequency Band	GSM/GPRS/EDGE Quad Band (850/900/1800/1900MHz)
WLAN	IEEE802.11 b/g/n
WPAN	Bluetooth 4.0
WCDMA	
CAMERA	
Development Environment	
GPS	GPS, AGPS
PSAM	2 PSAM slots(maximum)
Barcode Scanner	1D- SE965, 2D - Zebra SE4750
RFID	UHF Circular polarization (4dBi), Range - 8 M
NFC	ISO14443A/B, ISO15693, NFC-IP1, NFC-IP2, etc. , 2-4cm Range
Other Features	Biometrics


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