

नव मगंलुर पत्तन प्राधिकरण

NEW MANGALORE PORT AUTHORITY

यांत्रिक अभियंता विभाग

Mechanical Engineering Department

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NO: GEM/2023/B/3998478/02

CORRIGENDUM NO. 2

Sub:- E-Tender in GeM Portal for the "PROVIDING VEHICLE SURVEILLANCE SYSTEM COMPRISING UVSS, ANPR & CAMERAS INCLUDING CAMC AND ONSITE SUPPORT AT MALLYA GATE NMPA" - Corrigendum No. 2 - Reg.

Ref:-i) Bid Number: GEM/2023/B/3998478, dtd 22-09-2023

With reference to the above E-tender in GeM Portal, the following corrigendum has been issued for reply of pre-bid queries.

All other terms and conditions mentioned in the tender remain unaltered.

Sd/-

Dated: 11.10.2023

Executive Engineer (Elec.) NMPA, Panambur.

NEW MANGALORE PORT AUTHORITY

Tender Committee proceedings for the meeting held on 06.10.2023 to deliberate on the Pre Bid queries received from the prospective bidders in the pre bid meeting held on 03.10.2023 and response prepared by department for the work of "Providing Vehicle Surveillance System comprising UVSS, ANPR & Cameras Including CAMC and Onsite Support at Mallya Gate NMPA".

SI. No.	Clause No. and Page No.	Tender Clause	Queries	NMPA Response
1.	Clause No. 5.2 Technical Specifications & Compliance, 1. UVSS Technical Compliance, Point No. 13, Page No. 54 of Tender Document.	The overall installed unit should be properly designed, and its structure should be able to withstand a total vehicle load of up to 40-Tons at any given point over the structure, more particularly at the center of the unit, so as not to suffer any accidental physical damage to the unit and the components under the pit cover. A suitable pit ventilation system shall be provided to cool the UVSS during High Temperatures. The installed unit shall have automatic viper system.	Camera enclosure is IP68 tested and certified. The enclosure is also Vaccum Sealed. The temperature certification is from -20 To +70 Degrees of	UVSS shall be of recess mounted type or surface mounted type. IP rating shall be IP67 or higher. The tender technical specifications are minimum requirement. UVSS units with advanced features and technology will be accepted, subject to the condition that UVSS should sustain and operate in local environmental conditions i.e. dust, moisture, heavy rain, water logging, temperature etc.
2.	Clause No. 5.2 Technical Specifications & Compliance, 1. UVSS Technical Compliance, Point No. 28 , Page No. 54 of Tender Document.	The system should store video clip of the vehicle approaching the location.	Multiple Images are grabbed for each vehicle entering the premises- Storing a Video clip will add latency and increase storage space. Request you to kindly amend the Clause accordingly.	Tender Condition holds good. It is clarified that video of Vehicle approaching the gate is required not video of undercarriage of the Vehicle.
3.	Clause No. 2.4 Minimum Qualification Criteria of the bidders: (MQC), 2.4.2 (i) Technical Criteria, "Similar Work", Page No. 10 of the Tender Document.	"Similar Work" means "SITC of Vehicle surveillance system/CCTV surveillance system or SITC of IT infrastructure works which includes Vehicle surveillance system/CCTV Surveillance system".	We request you to please add SITC of Enterprise security (Smart fence, boom barrier, flap barrier etc) system as one of the similar works	Tender condition holds good.
4.	Clause No. 3.29 Payments, A. Payment of PART-I, Page No. 30 of the Tender Document.	No part payment shall be done by NMPA. However, 100% payment shall be made after successful completion / commissioning & acceptance the system and certification by the Third Party Inspection agency appointed by the Port.The performance security deposit will be refunded after the expiry of one year guarantee period without interest less deduction of any sum that may be due from the Tenderer after completion of the work. Payment along with applicable GST will be released within 15 days subject to recoveries if any, from the date of submission of Tax Invoice after satisfactory completion of work in all respect.		Tender condition holds good.
5.	Clause No. 5 Scope of Work and Technical specifications, 5.1 (E) Bill of quantities, Item SI. No. 4 (a), 4 (b) & 5 Page No. 50-51	4. Supply of following cameras with 64 GB micro SD card with mounting bracket and camera box a. 5MP Vari-Focal Lens Bullet Camera: 16 Qty, b. 5MP Vari-Focal Lens Dome Camera: 4 Qty, 5. Supply of VMS licence: 4 Qty	Requesting you to please clarify the requirement of 4 additional cameras and VMS license	Each lane shall be equipped with 5 Nos. Camera to capture image of all side of the vehicle i.e. front, left, right, rear and top. The 4 Nos. dome cameras are required for capturing the top view of the vehicle. Accordingly, total 20 cameras (5 Cameras X 4 Lane) are required with 20 Nos. of VMS licence.

SI. No.	Clause No. and Page No.	Tender Clause	Queries	NMPA Response
6.	Agreement of the Tender Document, Page No. 84	Annexure-8 Dispute Review Board Agreement	Please clarify if the annexure is to be submitted with the Bid or after the tender is awarded	Acceptance of the Annexure shall be submitted along with the technical bid with seal & signature on each page.
7.	Annexure-12 Indemnity Bond of the Tender Document, Page No. 91	Annexure-12 Indemnity Bond	Please clarify if the annexure is to be submitted with the Bid or after the tender is awarded	Indemnity Bond on the stamp paper shall be submitted along with the technical bid by the bidders who does not have the ESI & PF Registration certificate.
8.	Annexure-13 Pre-Contract integrity Pact Agreement of Tender Document, Page No. 93	Annexure-13 Pre-Contract integrity Pact Agreement	Please clarify if the annexure is to be submitted with the Bid or after the tender is awarded	Acceptance of the Annexure shall be submitted along with the technical bid with seal & signature on each page.
9.	Clause No. 5.2 Technical Specifications & Compliance, 12. OFC cable compliance, Sl. No. 9, Page No. 68 of Tender Document.	Characteristics - Optical Performance Max. Attenuation: At 1310 nm: 0.34 dB/km At 1550 nm: 0.22 dB/km Max. Average Attenuation; At 1310 nm: 0.33 dB/km At 1550 nm: 0.21 dB/km	As per the Standard for a G.652D Cable the Attenuation is ≤ 0.4 dB/km at 1310 and ≤ 0.3 dB/km at 1550nm. The same may be referred in the following link: https://www.thefoa.org/tech/smf.htm. Therefore, we request the technical committee to kindly look into the same and not make the specification OEM centeric and doesn't promote Make in India OEM.	Attenuation of ≤ 0.4 dB/km at 1310 and ≤ 0.3 dB/km at 1550nm is acceptable.
10.	Clause No. 5.2 Technical Specifications & Compliance, 12. OFC cable compliance, SI. No. 11, Page No. 68 of Tender Document.	Specifications ISO.IEC 11801 - 2nd Edition, type OS2; AS/ACIF S008; AS/NZS 3080, EIA/TIA 568-C.3. ITU-T REC G 652D spec for Low Water Peak fibre IEC 60793/60794, TIA 568, EIA 455	Both the Standards mentioned AS/ACIF S008; AS/NZS 3080 are Australian cabling standards (It is one of the Telecommunication Standards developed under the Memorandum of understanding between the Australian Communication Authority (ACA and the Australian Communication Industry Forum (ACIF). In addition, some standards needed to be replaced with the latest standards i.e TIA/EIA 568.C-3 with TIA/EIA 568.3-D standards. Request you to either add an Indian Equivalent Standard or delete the same as well as amend the standards.	Equivalent Indian Standard related to optical fibre cable IS/IEC 60793-1-1; IS/IEC 60794-1-12; IS/IEC 60794-3-10 & IS 15954 with latest amendments shall be accepted.
11.	Clause No. 5.2 Technical Specifications & Compliance, 13. CAT6 STP Cable Compliance, Sl. No. 14, Page No. 69 of Tender Document.	DC Resistance, maximum 8 ohms/100 m 2.438 ohms/100 ft	If we would refer to ANSI/TIAEIA-568 the resistance of any conductor, measured in accordance with ASTM D4566, shall not exceed 9.38 Ohms per 100m (328 ft) at or corrected to a temperature of 20° C. You may refer to the IEEE 802 Standard document. Once again our request to the technical committee to kindly look into the same and amend as per standards so that .	per 100m (328 ft) at or corrected to a
12.		Switch should support physical stack of up to at least 6 units per stack and stack bandwidth up to 40G full-duplex.	We request you to please clarify that the stack feature to be included from day one or not?	Physical stack of up to at least 6 units per stack and stack bandwidth up to 40G full-duplex shall be available from day one of successful commissioning of the system.
13.	Clause No. 5.2 Technical Specifications & Compliance, 7. Layer 2 Manageable Switches Compliance, Sl. No. 3.1, Page No. 61 of Tender Document.	·	The total power available for PoE switch should be 370W or higher and we recommend you to add with redundant power supply. In absence of redundant power supply Most the time switch fails due to power supply and all AP/PoE device connected to switch also will go down.	J
14.	Clause No. 5.2 Technical Specifications & Compliance, 7. Layer 2 Manageable Switches	Operating temperature should be 0 degree Celsius to +50 degree Celsius.	We request you to change it to 0 degree Celsius to +40 degree Celsius, We understand these switches will be installed in indoor environment and +50 degree temperature is required for outdoor switches, if the	

SI. No.	Clause No. and Page No.	Tender Clause	Queries	NMPA Response
	Compliance, Sl. No. 3.3, Page No. 61 of Tender Document.		requirement is for outdoor switches we request you to add IP67 protection and the temperature should be 65 degree (Switch +outside temperature)	
15.	Clause No. 5.2 Technical Specifications & Compliance, 7. Layer 2 Manageable Switches Compliance, Sl. No. 4.7, Page No. 62 of Tender Document.		ITU-T G.8032 protocol mostly supported on routers for Metro Ethernet Setup, in order to achieve sub-50ms protection we request you to kindly add a protocol which is equivalent and amend the same for larger participation	Equivalent protocol shall be accepted subject to fulfilment of the scope and requirement of the project.
16.	Clause No. 5.2 Technical Specifications & Compliance, 7. Layer 2 Manageable Switches Compliance, Sl. No. 5.2, Page No. 62 of Tender Document.	Different type of VLAN like Port based, MAC based, GVRP, Protocol based, Auto Surveillance, Auto Voice, etc. should be available for configuration.	GVRP is legacy and outdated protocol, we request you to replace it with DTP (dynamic trunking protocol) which is advanced and equivalent to GVRP requesting you to kindly modify for larger participation.	Requirement stated in the Tender Document are minimum requirement. Any advanced or equivalent protocol shall be accepted subject to fulfilment of the scope and requirement of the project.
17.	Clause No. 5.2 Technical Specifications & Compliance, 10. Online UPS Compliance, Sl. No. 1, Page No. 66 of Tender Document.	UPS Capacity 10KVA (8KW) with Inbuilt Isolation Transformer	We request you ammend it as 10 KVA UPS with 10 KW with external isolation transformer, for IT load isolation transformer is not required, it reduces the efficiency and power factor, failure factor is increased, if transformer fails, UPS will fail so we recommend to have an external isolation transformer.	Tender Condition holds good.
18.	Clause No. 5.2 Technical Specifications & Compliance, 10. Online UPS Compliance, Sl. No. 12, Page No. 67 of Tender Document.	Rated Power 10KVA/8KW	We request you to amend it as 10KVA/10KW i.e. with external isolation transformer, for IT load isolation transformer is not required, it reduces the efficiency and power factor, failure factor is increased, if transformer fails, UPS will fail so we recommend to have an external isolation transformer.	Tender Condition holds good.
19.	Clause No. 5.2 Technical Specifications & Compliance, 10. Online UPS Compliance, Sl. No. 9, Page No. 66 of Tender Document.	Backup: 2 Hours	Battery charger should be minimum 10 amps, as per thumb rule the battery charger should be 1/10th of battery capacity.	Tender Condition holds good.
20.	Clause No. 5.2 Technical Specifications & Compliance, 8. Wireless Radio Device Compliance, Sl. No. 3, Page No. 64 of Tender Document.	NLOS, nLOS operation : Radio Must support NLOS, nLOS condition with iOFDM	NLOS means Non line of Site and this function works in very specific condition, i.e. the area should be very densly populated. We understand that With nLos your purpose gets fulfilled, in such case NLOS is not required as it will compromise the bandwidith. We request you to ammend as OFDM/ iOFDM is a very new feature and only specific to 1 OEM, without that also speed oif 800+MBPS can be attained so we request you ammend it.	Requirement stated in the Tender Document are minimum requirement. OFDM / iOFDM shall be accepted.
21.	Clause No. 5.2 Technical Specifications & Compliance, 8. Wireless Radio Device Compliance, Sl. No. 15, Page No. 64 of Tender Document.	Security: AES 128 Encryption Identity-Based user account Configurable password rules User Authentication and Radius Support	With AES 128 Encryption the product is already very secure, Identity-Based user account Configurable password rules User Authentication and Radius Support can be done through local server, so this can be done in server does not have to be PTP device, so we request you to please remove them.	Tender condition holds good.
22.	Clause No. 5.2 Technical Specifications & Compliance, 8. Wireless Radio Device	Interfaces ; Should have 1 Gigabit Ethernet and 1 SFP port	There are alternative for SFP port (through media converter) so we request to eliminate SFP port	Interfaces through media convertor shall be accepted subject to fulfilment of scope and requirement of project.

SI. No.	Clause No. and Page No.	Tender Clause	Queries	NMPA Response
	Compliance, Sl. No. 18, Page No. 65 of Tender Document.			
23.	Clause No. 5 Scope of Work and Technical specifications, 5.1 (E) Bill of quantities, Item SI. No. 1, Page No. 50 of Tender Document.	Supply of complete UVSS-ANPR system at 2 entry and 2 exit of Mallya Gate with all Accessories i.e., Driver image camera, Dashboard/software for showing ANPR, Vehicle image, Driver Image details, Video Analytics Platform which includes camera health monitoring, object / video / forensic search, map view, zoom function.	We request you please provide more clarity and elaborate this point, specially requirement of video / forensic search, map view and what kind of Video Analytics is required for UVSS.	forensic search – read as FOD
24.	Clause No. 5.2 Technical Specifications & Compliance, 2. Camera, Sl. No. 19, Page No. 58 of Tender Document.	crossing detection, unattended object detection, missing object detection, face detection, crowd detection, running detection	running detection.	Tender Condition Holds good.
25.	Clause No. 5.2 Technical Specifications & Compliance, 4. Server, Sl. No. 3, Page No. 59 of Tender Document.	Internal storage: 480GB SSD x 6 Nos 6TB SAS x 12 Nos	6x HPE 480GB SATA RI LFF SCC MV SSD 6x HPE 12TB SAS 7.2K LFF LP He 512e HDD Here we have considered 6 HDD of 12TB which will give your asked Storage capacity, please consider	Variation in the configuration of Internal storage shall be considered subject to the availability of total storage in each category shall be as per tender specifications or higher.
26.	Clause No. 5.2 Technical Specifications & Compliance, 4. Server, Sl. No. 9, Page No. 60 of Tender Document.	Optical Drive : DVD +/-RW (Internal)	Please consider USB DVD +/- RW, Due to 12LFF Server internal DVD RW not possible, so please remove this since the requirement is fulfilled with USB DVD +/- RW	External DVD+/- RW shall be accepted.
27.	Clause No. 5.2 Technical Specifications & Compliance, 1. UVSS Technical Compliance, Point No. 2, Page No. 53 of Tender Document.	moving at different speed ranging from Zero (0) to 40 Km/hr, while the composite images so captured by	The UVSS should be capable of handling vehicles moving at different speeds ranging from Zero (0) to 40 Km/hr., there are boom barriers installed all the vehicles have to stop and they after the scanning the vehicle will move forward. This clause is restrictive and support only one OEM i.e., Vehant. Request you to make it 0-20Km/hr. and its practical that no Vehicle can go at maximum speed of 40Kms/hr.	
28.	Clause No. 5 Scope of Work and Technical specifications, 5.1 (E) Bill of quantities, Item SI. No. 4 (a), 4 (b) & 5 Page No. 51 of Tender Document.	 4. Supply of following cameras with 64 GB micro SD card with mounting bracket and camera box a. 5MP Vari-Focal Lens Bullet Camera: 16 Qty, b. 5MP Vari-Focal Lens Dome Camera: 4 Qty, 5. Supply of VMS licence: 4 Qty 	Page no 51, Point No 5, VMS License is mentioned a 4Nos, But Cameras asked is 20 Nos., please correct it as 20 Licenses.	·
	Clause No. 5.2 Technical Specifications & Compliance, 2. Camera, Sl. No. 19, Page No. 58 of Tender Document.	detection, running detection.	The RFP demands for camera-based analytics in the today real time scenario going with Hardware based analytics is not viable solution as the accuracy will not be more than 50%. Hence, we propose to go for the Software based analytics and as per our understanding the servers & storage is also asked for the same purpose (SOFTWARE ANALYTICS). In this regard, please give the breakup in Page No 51 (Bill of quantities) for the Video Analytics.	
30.	Clause No. 5.2 Technical Specifications & Compliance, 1. UVSS Technical Compliance, Point No. 13, Page No. 54 of Tender Document.	The overall installed unit should be properly designed, and its structure should be able to withstand a total vehicle load of up to 40-Tons at any given point over the structure, more particularly at the center of the unit, so as not to suffer any accidental	Request you to please consider the below latest specs. The given spec in the RFP is as per the MHA guidelines published on 9th Sep 2015, post which there are lot of advancement. Mangalore being a coastal region there would be heavy rainfall during the	Please refer NMPA response to the query No. 1.

SI. No.	Clause No. and Page No.	Tender Clause	Queries	NMPA Response
		physical damage to the unit and the components under the pit cover. A suitable pit ventilation system shall be provided to cool the UVSS during High Temperatures. The installed unit shall have automatic viper system.	monsoon season, as we feel it's a basic amenity which we need to be adopted following the climatic conditions. Even as per the tender clause TPI agency should certify in case of any substandard they the payments will also be affected. In this regards we request you to maintain the below standards. • The UVSS unit should be surface mounted to avoid any kind of water logging or maintenance issue. • IP 68 rated Suitable Camera Casing (Tested and Certified).	
31.	Clause No. 3.29 Payments, A. Payment of PART-I, Page No. 30 of the Tender Document.	1 ' '	We request you to please consider the payment clause as per the previous UVSS tender, now it would be very difficult to get maintain the cash flow, we request you for 70% on supply of equipment's and 30% on complete installation, commissioning AND Go-Live.	Tender Condition holds good.
32.	Clause No. 2.20 (ii) Performance Security for PART II & III (CAMC & Deployment of Manpower), Page No. 17 of the Tender Document.	Performance security for a sum equivalent of 10% of the total contract value (for Part-II & III) including GST shall be submitted in the form of Insurance Surety Bonds or Account Payee Demand Draft or Fixed Deposit Receipt from a Commercial Bank or Bank Guarantee from a Commercial Bank or online payment are accepted in the approved format within 21 days from the date of issue of LOA. The Performance security shall be kept valid for one year Three Months claim Period and the same has to be renewed for every year until the expiry of contract period (CAMC and Onsite resource). Thereafter, the total of 10% of Performance Security shall be released to the Contractor after successful completion of the Contract period of CAMC & Manpower, deducting any dues payable to the Port. Failure to comply with the above shall lead to termination of contract as per clause No. 2.9 of ITB. If the contract is extended on mutual consent at the same rates, terms and conditions of the contract, then the Performance security shall also be extended for the same period plus Three Months claim period (in case of BG).	We request you to please allow us to submit the 10% of the PART II and PART III post completing the supply, installation and commissioning and before commencing the CAMC and Manpower deployment. Post completing you can give maximum 1 week for submitting the OPEX PBG (CAMC & Manpower)	Tender condition holds good.
33.	Clause No. 5.2 Technical Specifications & Compliance, 4. Server, Sl. No. 3, Page No. 59 of Tender Document.		We have only 4TB SATA & 8TB SAS/SATA drives. No 6 TB SAS drives available.	Please refer NMPA response to the query No. 25

SI.	Clause No. and Page No.	Tender Clause		Queries	NMPA Response	
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	Clause No. 5.2 Technical Specifications & Compliance, 4. Server, Sl. No. 5, Page No. 59 of Tender Document.	Graphics Card : 8GB graphics Card	Need clarity if customer is expecting 8GB GPU card. In case yes then with 3.5" SAS/SATA drive chassis GPU is not compitable. We need external DAS for SAS/SATA drives.		External DAS for SAS/SATA drives shall be accepted.	
35.	Clause No. 5.2 Technical Specifications & Compliance, 4. Server, Sl. No. 9, Page No. 60 of Tender Document.	Optical Drive : DVD +/-RW (Internal)	Rack Servers are not DVD, we can add ext	coming with the option of internal ernal DVD ROM.	Please refer NMPA response to the query No. 27	
36.	Clause No. 5 Scope of Work and Technical specifications, 5.1 (E) Bill of quantities, Item SI. No. 1, Page No. 51 of Tender Document.	and 2 exit of Mallya Gate with all Accessories i.e., Driver image camera, Dashboard/software for	Request you to please remove video analytics/Video search from UVSS. As per discussion in the Pre-Bid Meeting on the MAP view it was confirmed by the OEMs that MAP view cannot be done on UVSS application. Kindly request you to remove the same.		query No. 24	
37.	General : Date of closing of e- Tender for submission of Bid	Date of closing of e-Tender for submission of Bid. Is on 13th Oct 2023.	We request you to please extend the bid submission to 20th Oct 2023 as there was also an extension for Pre-Bid meeting.		Accepted. Corrigendum will be issued for the same.	
38.	Clause No. 5.2 Technical Specifications & Compliance, 1. UVSS Technical Compliance, Point No. 9, Page No. 54 of Tender Document.	The UVSS must have a built in software diagnostics capability to facilitate any distant software support to be offered offline.	Requesting you to consider "The UVSS must have a built in software diagnostics capability to facilitate any distant software support to be offered ONLINE."		Tender condition holds good.	
39.	Clause No. 2.4 Minimum Qualification Criteria of the bidders: (MQC), 2.4.2 (iii) Technical Criteria, Page No. 10 of the Tender Document.	Manufacturer Authorization Form (MAF) for UVSS and Server from the OEM shall be submitted along with the technical Bid.	servers are made ir USA and many more	ssued for Server but most of the Taiwan, Singapore, Germany, other countries. And we cannot ovide MAF letter with India Origin.	J J	
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1.	and Technical Specifications, 5.1 Scope of Work, A. SITC Works, Point No. (ii), Page No. 46	cover the left, right, top & rear image of the vehicle additional cameras to be integrated with the dashboar to see the image of the vehicle from all sides.			to cover the Front , left, right, top & rear image of the vehicle. All feeds of	
2.	Clause No. 5 Scope of Work and Technical specifications, 5.1 (E) Bill of quantities, Item SI. No. 5 Page No. 51 of Tender Document.	5. Supply of VMS licence: 4 No.		5. Supply of VMS licence: 20 No	os.	