



MANGALORE REFINERY & PETROCHEMICALS LTD.
(A Subsidiary of Oil and Natural Gas Corporation Ltd.)
Mangaluru



Corrigendum 01
to
MRPL Tender No. 3200000901 dated 04.10.2024.
SITC (Supply, Installation, Testing & Commissioning) & CAMC (Comprehensive Annual Maintenance Contract)
of Security Technology Infrastructure (Package D)

With reference to the above tender, bidders are requested to note the following revisions in the tender documents:

SI No.	Volume	Section No./Clause No.	Page no	Existing Tender Clause	Modification
1)	Volume-I of II	Cover Page / Section-1: Notice Inviting Tender (NIT), Table Sl.No. (8): Bid closing date / time	1 of 504 & 9 of 504	24.10.2024 @ 15:00 Hrs (IST)	29.10.2024 @ 15:00 Hrs (IST)
2)	Volume-I of II	Cover Page / Section-1: Notice Inviting Tender (NIT), Table Sl.No. (9): Date/ Time of Technical Bid opening	1 of 504 & 9 of 504	24.10.2024 @ 15:30 Hrs (IST)	29.10.2024 @ 15:30 Hrs (IST)
3)	Volume-I of II	TERMS OF PAYMENTS [ANNEXURE - III TO SPECIAL CONDITIONS OF CONTRACT]	363 of 504	The following are the payment terms for the project: - For Capex - 50 % against supply of items with TPI - 20 % against installation of the items - 10 % against commissioning of the entire system	The following are the payment terms for the project: - For Capex - 60 % against supply of items with TPI - 10 % against installation of the items - 10 % against commissioning of the entire system - 20 % against UAT, system documentation and handover

SI No.	Volume	Section No./Clause No.	Page no	Existing Tender Clause	Modification
				<ul style="list-style-type: none"> - 20 % against UAT, system documentation and handover <p>For Opex (CAMC)</p> <ul style="list-style-type: none"> - The entire Opex amount shall be divided into 16 equal quarterly instalments - The equal quarterly instalments shall be paid against submission of quarterly invoice and respective SLA calculations. 	<ul style="list-style-type: none"> - The payment shall be proportional as and when specific material is supplied. <p>For Opex (CAMC)</p> <ul style="list-style-type: none"> - The entire Opex amount shall be divided into 16 equal quarterly instalments - The equal quarterly instalments shall be paid against submission of quarterly invoice and respective SLA calculations, to paid at the end of every quarter.

4) The following shall be considered as the revised specifications for the respective components as mentioned in the SOR (Volume 1) and Section 3 (Technical Specifications, Volume 2)

A. SOR Item No. 9 (Price Part / Volume 1) and Section 3.7.2 (Volume 2) – SITC of Ceiling Speakers

Type	Ceiling type loudspeaker 20 W
Operation	Suitable for indoor areas; clearly audible (comfort hearing) at a radial distance of 5 m at > 50° angle with sound level differential of minimum 20 to 30 db as compared to surrounding noise level Operating temperature shall be > 40 deg C.
Mechanical	IP 54 or better; Mounting Brackets to be included. 20 W speaker with built in amplifier, standard POE support, simple installation with single network cable, Shall support SIP integration. Shall be controlled through an audio management software (to be integrated with proposed ESRPMS)

B. SOR Item No. 20 (Price Part / Volume 1) and Section 3.16 (Volume 2) – SITC of Bollards

Features	Minimum Specifications
	<p>Single hydraulic Bollard; static sub-surface mounting tube and impact tube construction; supporting framework constructed from full welded, high strength, structural steel completely encased with steel sheets to provide a self-shuttered module; IP68; K-12 rated; Speed of Operation <6s; Performance-30T with Impact absorption 1852K single/double.</p> <p>Material and Finish – SS 304, thickness minimum 6 mm</p> <p>Flashing LED lights and reflective radium strips</p> <p>Accidental rising safety via Loop Detector and sensor</p> <p>Controlled via remote control safety button (to be included in scope) and via LRID readers. Also should be controlled through ESRPMS</p> <p>Al housing and internal parts will be made of rust and corrosion free material</p> <p>Height of bollards – 900 mm</p> <p>Fail safe (lowering) & Fail secure (raising) operation to be included</p> <p>Emergency rising & lowering time to be < 2 seconds</p> <p>Noiseless / very low noise operation</p> <p>In lowered position, bollard should be perfectly flush to ground level.</p>

	<p>Bollards will have to be maintained to prevent accumulation of water and to ensure smooth operation. All foundations and civil works including under-surface pipes and accessories in the scope of the bidder.</p> <p>Regular inspections should be undertaken to check for oil contamination, leaks, or changes in viscosity. Oil replacement to be undertaken at least once in six months / on demand.</p> <p>Bollards should work in combination of 2 or more.</p> <p>When single bollard is under maintenance, other bollards in combination shall continue to work</p> <p>Bidders to provide the proposed foundation details as part of the technical proposal</p> <p>Impact and performance test certificates from Indian and international accredited labs to be provided</p>
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C. SOR Item No. 39 (Price Part / Volume 1) and Section 3.33 (Volume 2) – SITC of Video Storage System (SAN)

1. External Storage	<p>FC SAN with required storage to record all the cameras as per the parameters mentioned in the tender document & management software. The storage shall have the usable storage capacity calculated by the bidder + 20% spare space, using RAID 5 / RAID 6. Calculations shall be submitted as part of detail engineering. To be ONVIF Compliant.</p> <p>The SAN storage shall be available in both primary and secondary control rooms. Primary storage shall be for 90 days and secondary storage shall be for 7 days.</p> <p>The minimum usable storage capacity shall be 2400 TB inclusive of primary and secondary storage.</p>
2. Storage Controller	<p>The System should support Unified storage architecture.</p> <p>It should have at least two controllers running in an active-active mode with automatic failover to each other in case of one controller failure.</p>
3. Connectivity	<p>The storage box shall have required number of 16 Gbps FC server ports (backward compatible to 8GBPS) across both controllers based on the design proposed by the Bidder + 25% redundant Ports.</p>

4. Cache	The system should have a minimum of 12 GB per controller Cache. It should be possible to use SSD drives as an extension to cache
5. Expansion	Shall support connection of storage expansion enclosures
6. RAID	Shall support all industry standard RAID configurations.
7. Disk Support	SAS - 15K RPM SAS - 10K RPM NL-SAS 7200 RPM, SSD drives The Storage should support Disk Expansion trays/enclosures to accommodate 3.5" and 2.5" disks. Hard disks for minimum 20 % storage capacity should be SAS-15 K/SAS 10-K
8. OS Support	SAN shall support the latest versions of operating systems such as MS Windows, RHEL, SUSE, Microsoft Hyper-V, VMWare and Red Hat in standalone and clustering environment.
9. Redundancy	Shall have redundant hot swappable components like controllers, disks, power supply, fans with standard security features
10. Data Protection and Data Security	Shall have data protection features and data encryption features.

5) The following shall be considered to be added to the scope of work - Section 2.8 (Volume 2)

DG Set	The scope of work for the diesel generator set shall include all the civil works (foundation/plinth of at least 1 m), electrical works and Chain-link fencing around the DG Set, to physically protect the diesel generator set, alongwith an access door.
DFMD	Every DFMD should include the provision of a wooden standing step of suitable height (6 to 8 inches) for frisking. Dimensions to be decided at the time of implementation.
Baggage Scanner	Each baggage scanner should include at least 20 stackable PP trays with MRPL branding, Dimensions (indicative): 680(L) x 520(W) x 110(H)mm

Tunnel Monitoring	For the monitoring of the UVSS and overhead cameras (used for overhead truck monitoring), a single, separate monitor shall be considered in the architecture to be either wall mounted / pole mounted at a specified location within the security tunnel.
Dismantling Works	There may be some areas (such as the control room and existing data center) wherein dismantling of existing infrastructure and cabling shall be done. The same shall be in the scope of the bidder. Equipment to be dismantled include existing monitors in the PCR, existing turnstiles in the training room ground floor and alteration in existing data centers in the PCR and SCR.

6) The following shall be considered to be added to the scope of work - Section 3.24 (Volume 2)

Volume II 3.24 - Xray Baggage Scanner	Baggage Scanner	Each baggage scanner shall be provided with a roller conveyor of at least 1 to 3 m on both sides, with the height of the same adjusted to the height of the baggage scanner. On the exit side, the roller tray shall have a slight slope. Exact length of the roller tray shall be as per the GFC drawing. The roller conveyor shall be made of stainless steel SS 304. The cost for the same shall be included in the SOR item No. 28 (Xray Baggage Scanner).
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The response to pre-bid queries (Technical) is attached to this Corrigendum as Annexure 1

The response to pre-bid queries (Commercial) is attached to this Corrigendum as Annexure 2

Bidders shall submit copy of these documents along with the technical-commercial bid, **duly signed and stamped**, as a token of having read and understood the same.

Annexure 1 – Response to Technical Queries

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
1	M/s. VICON Security Tech Pvt. Ltd	45 of 276	3.2 Outdoor fixed camera > Lens	5 to 50 mm CS mount, Varifocal Motorized with Remote Focus & Zoom Form factor can be bullet or box	The mentioned specification are OEM specific. In Tender 5-50 mm lens has been asked, considering actual requirement we suggest to change it to 9-50mm	Tender terms shall prevail
2	M/s. VICON Security Tech Pvt. Ltd	45 of 276	3.2 Outdoor fixed camera > Video Streams	Multi-streaming (Minimum 4 Nos user-defined & configurable - different frame rate, bit rate, resolution, quality, and compression format) support	The mentioned specification are OEM specific. In tender its has been asked for 4 stream support but considering the nature of project we think 3 streams are enough, request you to please change it to 3 stream	Tender terms shall prevail. This is a functional requirement, bidders may achieve it using camera or third party devices (without any extra cost to MRPL)
3	M/s. VICON Security Tech Pvt. Ltd	46 of 276	3.3 PTZ camera > Zoom	30x Optical Zoom & 12x Digital Zoom (or better)	The mentioned specification are OEM specific. In tender 12X digital zoom has been asked, as per industry standard we are requesting to change it to 8X	Tender terms shall prevail
4	M/s. VICON Security Tech Pvt. Ltd	46 of 276	3.3 PTZ camera > Video Streaming	Multi-streaming (Minimum 4 Nos user-defined & configurable - different frame rate, bit rate, resolution, quality, and compression format) support	The mentioned specification are OEM specific. In tender its has been asked for 4 stream support but considering the nature of project we think 3 streams are enough, request you to please change it to 3 stream	Tender terms shall prevail. This is a functional requirement, bidders may achieve it using camera or third party devices (without any extra cost to MRPL)
5	M/s. VICON Security Tech Pvt. Ltd	47 of 276	3.5 APNR Camera > Lens	5-50 mm lens (Varifocal, Manual or Motorised Lens) or appropriate to capture minimum 3.5 meters lane width	The mentioned specification are OEM specific. In Tender 5-50 mm lens has been asked, considering actual requirement we suggest to change it to 9-50mm	Tender terms shall prevail.
6	M/s. VICON Security Tech Pvt. Ltd		3.5 APNR Camera > Shutter Speed	1/50 – 1/10,000 (60fps / 1 input)	Requesting to change FPS to 30 FPS	For ANPR camera, 30 FPS shall be acceptable, as long as it is compatible with the offered ANPR software

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
7	M/s. VICON Security Tech Pvt. Ltd		3.5 APNR Camera > Frame Rate	Minimum 60 FPS	Requesting to change FPS to 30 FPS	For ANPR camera, 30 FPS shall be acceptable, as long as it is compatible with the offered ANPR software
8	Norden	44 of 276	Volume II SECTION 3 Technical Specifications 3.1. Indoor Dome Camera	Lens: 3 (+/- 1) mm to 9 (+/- 1) mm, to ensure that the horizontal field of view is minimum 100 degrees to maximum 40 degrees.	Lens: 3 (+/- 1) mm to 9 (+/- 1) mm, to ensure that the horizontal field of view is minimum 94.2 degrees to maximum 40 degrees. Requesting to amend as per above to allow wider participation.	Tender terms shall prevail
9	Norden	45 of 276	Volume II SECTION 3 Technical Specifications 3.2. Outdoor Fixed Camera	Lens: 5 to 50 mm CS mount, Varifocal Motorized with Remote Focus & Zoom Form factor can be bullet or box	Lens: 5 to 50 mm CS mount/M14 mount Varifocal Motorized with Remote Focus & Zoom Form factor can be bullet or box Request you to accept the suggested changes as CS mount is applicable for Box Cameras .	Mount suitable for Bullet cameras shall be acceptable
10	Norden	47 of 276	Volume II SECTION 3 Technical Specifications 3.4. Panoramic / 180 Degree Camera / 360 Degree Camera	6.Resolution:5MP x 4 or better (per lens)	6. Resolution: 4MP x 4 or 2MP x 8 or better (per lens) Request you to accept the 4MP resolution (4MP*4=16MP) for 180 degree and 2MP resolution (2MP*8=16MP) for 360 degree view for wider participations.	Tender terms shall prevail

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
11	Norden	47 of 276	Volume II SECTION 3 Technical Specifications 3.4. Panoramic / 180 Degree Camera / 360 Degree Camera	8.Image Features : Electronic Image Stabilization & WDR	8. Image Features: Electronic Image Stabilization & WDR Request you to remove EIS as this is required in PTZ or very high zoom cameras where on full zoom, it is difficult to get the stable image.	Tender terms shall prevail
12	Norden	51 of 276	Volume II SECTION 3 Technical Specifications 3.6. Face Recognition Cameras	General IP True Day/Night Outdoor Fixed Box Camera, PoE enabled, ONVIF Compliant, low light visibility, clear visibility under rainy/cloudy/lightning conditions also. Immunity against EMI, RFI & lightning.	General IP True Day/Night Outdoor Fixed Box/ Bullet Camera, PoE enabled, ONVIF Compliant, low light visibility, clear visibility under rainy/cloudy/lightning conditions also. Immunity against EMI, RFI & lightning. Request you to ask Bullet camera also in option as you have asked motorized varifocal lens which is possible in Bullet type only.	Fixed Box or Bullet Camera shall be acceptable
13	Norden	51 of 276	Volume II SECTION 3 Technical Specifications 3.6. Face Recognition Cameras	Lens:5-50 mm lens (Varifocal, Motorised Lens) or appropriate to capture human face from a height of 3 meters at a distance of 10 meters.	Lens:5-50 mm lens (Varifocal, Manual or Motorised Lens) or appropriate to capture human face from a height of 3 meters at a distance of 10 meters. Request you to ask manual varifocal lens if the requirement is of Box type cameras as most of the OEMs do not have support of motorized lens in box type cameras.	Tender terms shall prevail

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
14	Norden	51 of 276	Volume II SECTION 3 Technical Specifications 3.6. Face Recognition Cameras	Image Features: Electronic Image Stabilization, auto-focus, Head Light Compensation (HLC) & WDR of 120 dB or better. Ability to capture & process image/s of multiple vehicles entering/exiting in parallel also.	Image Features: Electronic/Digital Image Stabilization, auto/Remote-focus, Head Light Compensation (HLC) & WDR of 120 dB or better. Ability to capture & process image/s of multiple vehicles entering/exiting in parallel also. Request you to ask remote focus and Digital Image Stabilization in option. As auto focus and is applicable only for motorized lens which comes in Bullet type cameras.	Tender terms shall prevail
15	Norden	53 of 276	Volume II SECTION 3 Technical Specifications 3.7.1 IP Horn Speaker	Operation: Operating temperature shall be > 55 deg C.	Operation: Operating temperature shall be > 50 deg C. Requesting to amend as per above to allow wider participation.	Tender terms shall prevail
16	Norden	53 of 276	Volume II SECTION 3 Technical Specifications 3.7.1 IP Horn Speaker	Mechanical: Wall & Pole mountable; IP66 or better; Mounting Brackets to be included.	Mechanical: Wall & Pole mountable; IP66/IP65 or better; Mounting Brackets to be included. Requesting to amend as per above to allow wider participation.	Tender terms shall prevail

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
17	Norden	53 of 276	Volume II SECTION 3 Technical Specifications 3.7.1 IP Horn Speaker	Specs: 30 W speaker with built in amplifier, standard POE support, simple installation with single network cable, Shall support SIP integration. Shall be controlled through an audio management software (to be integrated with proposed ESRPMS)	Specs: 30 W/ 10W speaker with built in amplifier, standard POE support, simple installation with single network cable, Shall support SIP integration. Shall be controlled through an audio management software (to be integrated with proposed ESRPMS) Requesting to amend as per above to allow wider participation.	Tender terms shall prevail
18	Norden	53 of 276	Volume II SECTION 3 Technical Specifications 3.7.2 Ceiling Speakers	Mechanical: IP66 or better; Mounting Brackets to be included.	Mechanical: IP66 or better ; Mounting Brackets to be included. Requesting to remove IP rating since ceiling speaker is mainly used for indoor applications	Tender terms shall prevail
19	Norden	121 of 276	Volume II SECTION 3 Technical Specifications 3.57. Passive Components	7. Pigtails: Pigtail with semi-tight buffer PA/PBT, Ø 0.9 mm, yellow, multimode G651 50/125(OM3/OM4) or single mode G652.D 9/125 µm (OS1, OS2), length 1 m. Fitted with one LC connector in acc. with IEC 61754-20. Zirconia (ceramic) ferrule with a PC polished end face geometry, connectors tuned in accordance with IEC 61755-3-1 and qualified in acc. with IEC 61753-1 for category U (uncontrolled environment). material PEI / UL 94 V-0, strain relief and white plastic dust cover Mechanical specifications: Mating cycles: delta IL < 0.2 dB after 500 mating cycles Pull-out force fiber pigtail: ≥ 5 N	7. Pigtails: Pigtail with semi-tight buffer PA/PBT, Ø 0.9 mm, yellow, multimode G651 50/125(OM3/OM4) or single mode G652.D 9/125 µm (OS1, OS2), length 1 m. Fitted with one LC connector in acc. with IEC 61754-20. Zirconia (ceramic) ferrule with a PC polished end face geometry, connectors tuned in accordance with IEC 61755-3-1 and qualified in acc. with IEC 61753-1 for category U (uncontrolled environment). material PEI / UL 94 V-0, strain relief and white plastic dust cover Mechanical specifications: Mating cycles: delta IL < 0.2 dB after 500 mating cycles Pull-out force	SC connector is acceptable

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
					<p>fiber pigtail: ≥ 5 N</p> <p>Requesting to amend as per above to allow wider participation. Requesting you to change LC to SC connector as per the Patch cord specification mentioned.</p>	
20	Norden	123 of 276	<p>Volume II</p> <p>SECTION 3 Technical Specifications</p> <p>3.57. Passive Components</p>	<p>19. OFC Cable: 24 core, Uni-tube, Armoured, Direct Burial 62.5 μm /125 μm SM FO cable UNITUBE CONSTRUCTION, GEL FILLED, MULTIMODE OPTICAL FIBRE CABLE (OFC) WITH 24 Nos. 62.5/125 MICRONS COLOUR CODED FIBRES AS PER G.651 STANDARDS, ECCST ARMOUR, EMBEDDED STEEL WIRE / FRP STRENGTH MEMBERS, WATER SWELLABLE/WATER BLOCKING TAPE & OUTER UV RESISTANT AND FIRE RETARDANT LSZH SHEATH HAVING ANTITERMITE AND ANTI-RODENT PROPERTIES, SUITABLE FOR DIRECT/DUCT BURIAL</p>	<p>19. OFC Cable: 24 core, Uni-tube, Armoured, Direct Burial 62.5 μm /125 μm SM FO cable UNITUBE CONSTRUCTION, GEL FILLED, MULTIMODE OPTICAL FIBRE CABLE (OFC) WITH 24 Nos. 62.5/125 MICRONS COLOUR CODED FIBRES AS PER G.651 STANDARDS, ECCST ARMOUR, EMBEDDED STEEL WIRE / FRP STRENGTH MEMBERS, WATER SWELLABLE/WATER BLOCKING TAPE & OUTER UV RESISTANT AND FIRE RETARDANT HDPE SHEATH HAVING ANTITERMITE AND ANTI-RODENT PROPERTIES, SUITABLE FOR DIRECT/DUCT BURIAL</p>	Accepted

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
					Requesting you to change the LSZH jacket to HDPE Jacket as it is Anti-Termite	
21	ROSSLARE		3.18	Long range reader	Connectivity : Ethernet, with PoE /PoE ++(this need to be controller feature and not reader, Reader will have weigand output)	In case POE is not provided, power supply shall be considered separately, without any incidence of cost to MRPL.
22	ROSSLARE		3.18	Long Range Reader	The readers shall be compatible to read FASTags issued/used by the NHAI.(using FAST tag for access control is not recommended as it shares user data openly..Rosslare suggest to use separate UHF tag for access control application)	Tender terms shall prevail
23	ROSSLARE		3.19	Access cards	The card shall be capable of completing any write operation, even if the card has been removed from the RF field during that operation.(how data will write if card removed from RF field)	Please read the requirement simply as " The card shall be capable of completing write operations"

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
24	Ortus	27	2.6.4 - 1.	All systems and components must be in compliance with CE, FCC, BIS (with Test Report) and UL certifications.	UL Listed not available but Power Supply is UL listed kindly consider the same.	UL Listing is not mandatory for Item No. 11 (Face Recognition Readers), Item No. 12 (Smart Card Reader), Item No. 13 (QR Code Reader), Item No. 14 (Portable Face Readers), Item No. 15 (Portable Face Readers), Item No. 16 (4R Access Controller), Item No. 17 (Fingerprint enrolment reader), Item No 22 (Long Range Reader) as seen in the SOR (Volume 1). The specifications of the above Items are also deemed to be accordingly modified in Vol 2.
25	Ortus	28	2.6.4 - 2.	All systems and components must be an open standard based system as well should support IPV4 & IPV6 protocol.	IPV4 is still more widely used than IPV6 so kindly consider IPV4 only instead of IPV6	Tender terms shall prevail
26	Ortus	61	3.18	IP68	IP66 Available	IP 66 is acceptable
27	Ortus	61	3.18	PoE /PoE ++	POE is optional but Implementing PoE can involve additional costs for compatible switches and cables, PoE has distance limits also, kindly consider POE optional.	In case POE is not provided, power supply shall be considered separately, without any incidence of cost to MRPL.

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28	M/s Mindarray Systems PVT. LTD.	89	3.36. Network Management System	Volumetric details	<p>In order to calculate the hardware sizing and license count, please provide following details</p> <p>NMS</p> <p>1. No of network devices to be monitored along with the bifurcation (routers, switches, firewalls, servers, UPS and any other SNMP devices)</p> <p>Net Flow management</p> <p>1. Total EPS (Event per second)</p> <p>Helpdesk</p> <p>1. No of technicians for Helpdesk</p>	Bidders are advised to check the SOR for quantities of devices to be monitored by the NMS. All edge devices and control room devices shall be monitored by the NMS
29	M/s Mindarray Systems PVT. LTD.	89	3.36. Network Management System	Shall support integration with NAC, IPS, SIEM and other third party security appliances to respond automatically and remediate threats in real-time	We kindly request that you remove this irrelevant information from the technical specifications, as it does not pertain to Industry standard Network management system	Tender terms shall prevail
30	M/s Mindarray Systems PVT. LTD.	90	3.36. Network Management System	Shall Transform complex network data into business-centric, actionable information and easily integrate with business apps with Software Defined Networking	We kindly request that you remove this irrelevant information from the technical specifications, as it does not pertain to Industry standard Network management system	Tender terms shall prevail
31	M/s Mindarray Systems PVT. LTD.	90	3.36. Network Management System	The software shall have modular architecture supporting other software plug-ins to enrich the network's management capabilities. This shall include Wireless Network Heat Maps, SIEM Management, IDS Management, Network Analysis Module, Network Traffic Analyzer (using sflow/Netflow/IPFixetc), etc	We kindly request that you remove this irrelevant information from the technical specifications, as it does not pertain to Industry standard Network management system	Tender terms shall prevail

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32	M/s Mindarray Systems PVT. LTD.	90	3.36. Network Management System	Shall provide a simple, open, programmable and centrally managed way to implement Software Defined Networking (SDN) for any network	We kindly request that you remove this irrelevant information from the technical specifications, as it does not pertain to Industry standard Network management system	Tender terms shall prevail
33	M/s Mindarray Systems PVT. LTD.	90	3.36. Network Management System	Additional specifications	In order to avoid tempering with SLA calculation, we recommend authority to select solution with in-built database for ensuring better control and flexibility along with lower TCO, we request the authority to incorporate the below clause: "The monitoring module of proposed solution must not use any third party database (including RDBMS and open source) to store data in order to provide full flexibility and control on collected data as well as avoiding tempering with SLA calculations."	Tender terms shall prevail
34	M/s Mindarray Systems PVT. LTD.	90	3.36. Network Management System	Additional specifications	In order to select established NMS OEM with strong financial background in the industry, we request the authority to incorporate the below clause: "NMS OEM must have average annual turnover of atleast INR 30 Cr. or above in last 3 financial years with positive net worth and presence of min. 14 years in the market having the experience of deployment . CA certificate need to be submitted at time of bid submission."	Tender terms shall prevail

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35	M/s Mindarray Systems PVT. LTD.	90	3.36. Network Management System	Additional specifications	<p>Adding the following clause in the RFP requiring ITIL alignment and ITIL4 certification for Monitoring and Event Management & Capacity & Performance Management justifies the adoption of best practices, quality assurance, and standardized IT service management. It ensures improved efficiency and vendor expertise while setting clear expectations and demonstrating a commitment to continuous improvement in IT practices.</p> <p>The proposed NMS solution should be aligned with ITIL framework principles and certified with ITIL4 for Monitoring & Event Management and Capacity & Performance Management process.</p>	Tender terms shall prevail

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36	M/s Mindarray Systems PVT. LTD.	90	3.36. Network Management System	Additional specifications	<p>ISO and CIS standards are a set of security guidelines and best practices developed by the nonprofit organizations such as ISO and CIS. These standards provide detailed configuration recommendations and benchmarks for securing your enterprise network. The purpose of these benchmarks is to provide industry-recognized guidelines for secure system configuration. These benchmarks help the authority to enhance their security posture, mitigate risks, and ensure compliance with industry standards and regulatory requirements. Hence we request you to add the following clause in the RFP</p> <p>"The OEM of the proposed solution should possess Quality certifications ISO 9001, Information security certificate ISO 27001, Application security certificate ISO 27034 and CIS benchmark certificate. Documentary proof must be provided at the time of submission."</p>	Tender terms shall prevail

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37	M/s Mindarray Systems PVT. LTD.	90	3.36. Network Management System	Additional specifications	<p>Adding the following clause in the RFP requiring ITIL alignment and ITIL4 certification for Monitoring and Event Management justifies the adoption of best practices, quality assurance, and standardized IT service management. It ensures improved efficiency and vendor expertise while setting clear expectations and demonstrating a commitment to continuous improvement in IT practices.</p> <p>"The proposed solution should be aligned with ITIL framework principles and certified with ITIL4 with minimum 12 practices like:</p> <p>Monitoring & Event Management ,Incident Management, Service Request Management, Problem Management, Service Level Management Capacity & Performance Management, Availability Management, Change Enablement Release Management, Knowledge Management Measurement & Reporting Management IT Asset Management"</p>	Tender terms shall prevail

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
38	CMS Computers India Pvt Ltd	134 of 504	3.3.0.0 POWER, WATER & OTHER FACILITIES	3.3.1.0 The CONTRACTOR shall be responsible to provide within the scope of work all facilities, consumables and utilities necessary for performance of the work including (but not limited to) water, power, transportation, labour, tools, construction and testing equipment, machinery and land at or about the job site(s) for the CONTRACTOR's field offices, godowns, workshop, residential accommodation for CONTRACTOR's staff; quarry rights and borrow areas, access roads and right(s) of way to or about the job site(s) and CONTRACTOR's offices, godowns, workshop accommodation, /or borrow areas.	We understand Power requirement during project work progress and CAMC phase will be provided by customer. Kindly confirm. Since all work will be within premises for MRPL, Right of Way required shall be under MRPL scope. Kindly confirm.	The power during the project implementation stage can be provided by MRPL on a metered and chargeable basis. Once the project / system is handed over to MRPL, the power provision shall be the responsibility of MRPL.
39	CMS Computers India Pvt Ltd	135 of 504	3.3.4.0 POWER SUPPLY:	3.4.0.3 The OWNER shall recover from the CONTRACTOR for power consumed by the CONTRACTOR from OWNER's source(s) of supply at the rate prescribed by the OWNER in this behalf from time to time. The amount due to the OWNER in respect of such power supplied shall without prejudice to any other mode of recovery to the OWNER, be deductible from the Running Account/Final Bill(s) of the CONTRACTOR and/or any monies due to the CONTRACTOR under this or any other Contract from time to time.	We understand Power requirement during project work progress and CAMC phase will be provided by customer. Kindly confirm.	The power during the project implementation stage can be provided by MRPL on a metered and chargeable basis. Once the project / system is handed over to MRPL, the power provision shall be the responsibility of MRPL.

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
40	CMS Computers India Pvt Ltd	135 of 504	3.3.4.0 POWER SUPPLY:	3.4.2.1 The CONTRACTOR shall provide at his own cost suitable electric meters approved by the Site Engineer for measurement of Power units consumed by the CONTRACTOR for determination of the payment due thereon to the OWNER. Such meters shall be under the control and custody of the OWNER	We understand Power requirement during project work progress and CAMC phase will be provided by customer. Kindly confirm.	The power during the project implementation stage can be provided by MRPL on a metered and chargeable basis. Once the project / system is handed over to MRPL, the power provision shall be the responsibility of MRPL.
41	CMS Computers India Pvt Ltd	445 of 504	Schedule of Rates	Sr. No. 11, 14 & 15, Make of Viridi is specified	Do we have to supply only Viridi make for this items, kindly confirm.	Yes, as clarified during the pre-bid meeting and as mentioned in the tender document, the Viridi make has already been selected by MRPL through another tender and hence for the mentioned Sr. Nos, Viridi make shall remain.
42	CMS Computers India Pvt Ltd	448 & 449 of 504	Schedule of Rates		We understand Mirrored control room will be replica of control room, will be at same premise, same room. Aslo since we are considering replica, what is necessity of N+1 architecture in each control room & mirrored control room.	The understanding is correct. N+1 architecture is required since even though both the control rooms shall be in the same premises, they may be physically differentiated at a later date.
43	CMS Computers India Pvt Ltd	VOL-2 20 of 276	2.4.10 Control Rooms	2 state of the art control rooms are proposed to provide complete situational awareness with adequate redundancy. Both the control rooms will act as primary & secondary control rooms – in the sense each will have the capability of taking over in case the other control room is compromised	Here as per description mentioned Primary and Secondary are in Active-Passive mode. Kindly confirm if we have to design solution accordingly.	The functional requirement specified is clear - kindly adhere to the same. All software licenses to be considered accordingly.
44	CMS Computers India Pvt Ltd	VOL-2 38 of 276	2.8.17 Integration	During the period of the project, the selected system integrator shall be required to integrate the cameras / software with the overall MRPL ISMS and ISMS 2 projects	We request MRPL to provide the SDK/ API of required system application to be integrated.	SDK / API for any external systems currently within MRPL scope shall be provided by MRPL. However, bidder shall be responsible for provision of SDK / API for

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
						any systems in the scope of the current tender.
45	CMS Computers India Pvt Ltd	VOL-2 43 of 276	2.8.19 Documentation	The selected Bidder shall prepare a detailed 3D schematic of the selected components after the demonstration stage for all the sites, based on inputs from the Consultant.	Kindly elaborate.	Once the physical access control components are approved for the selected bidder, a 3D schematic shall be prepared before installation for each of the sites. The Auto CAD drawings for the purpose shall be provided by the Consultant
46	CMS Computers India Pvt Ltd	VOL-2 45 & 46 of 276	SECTION 3 Technical Specifications 3.2. Outdoor Fixed Camera 3.3. PTZ Camera	Video streaming: Multi-streaming (Minimum 4 Nos user-defined & configurable - different frame rate, bit rate, resolution, quality, and compression format) support	For other Cameras except Outdoor Fixed Camera & PTZ Camera minimum video stream asked is 3 nos. We request you to amend the video streaming capacity to minimum 3 nos OR better both for PTZ & for Outdoor Fixed Camera. For rest of the Camera	Tender terms shall prevail. This is a functional requirement, bidders may achieve it using camera or third party devices (without any extra cost to MRPL)
47	CMS Computers India Pvt Ltd	VOL-2 132 of 276	SECTION 5 – Forms	5.1. Manufacturer's Authorization Form 7. During the period of 7 years from the date of supply, in case the bidder fails to provide you the necessary service, we will be obliged to provide the same, at no extra cost	As per our experience most of the OEM's deny for such clause, they will provide support to any other vendor but will not engage directly in providing the service. Request you to amend the clause.	Tender terms shall prevail
48	CMS Computers India Pvt Ltd		General	Bid submission Date: 24/10/2024	We hereby request you to extend the bid submission date minimum 2 weeks from the date of publishing the prebid reply.	Please see Corrigendum 1
49	Transit Electronics Limited	Vol2-Pag	2.4.11	Metal Detections- Baggage Scanner	E-SRPMS Platform has to be integrated with Multiple Brand of Baggage Scanners with for to see Live Baggage Scanner Data. Hope our Assumption is correct	The ESPRMS software shall be integrated with the X-ray baggage scanners (in the scope of Package D) for viewing of live scanning images.

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
50	Transit Electronics Limited	Vol2-Pag	2.8.18	Tyre Killer	E-SRPMS Platform has to be integrated with Multiple Brand of Tyre Killer for alarm Monitoring. Hope our Assumption is correct	The ESRPMS software shall be integrated with the automatic tyre killer for controlling the movement of the same remotely, as well as to view audit trail, historical data and alarms.
51	Transit Electronics Limited	Vol2-Pag	2.8.18	UVSS	E-SRPMS Platform has to be integrated with Multiple Brand of UVSS for alarm Monitoring. Hope our Assumption is correct	The ESRPMS software shall be integrated with the proposed UVSS for viewing live images and alarm monitoring
52	Transit Electronics Limited	Vol2-Pag	2.8.18	Digital Signage	E-SRPMS Platform has to be integrated with Digital Signage for for central dashboard of automated, pre-triggered and manually driven events .Hope our Assumption is correct	Correct
53	Transit Electronics Limited	Vol2-Pag	2.8.18	Parking Management System	E-SRPMS Platform has to be integrated with Parking Management System for central monitoring of Parking Lots .Hope our Assumption is correct	The ESRPMS shall be integrated with parking management system for providing real time and historical data pertaining to parking data
54	Transit Electronics Limited	Vol2-Pag	2.8.18	Truck Management Software	E-SRPMS Platform has to be integrated with Truck Management Software at API/HTTPS/WEB Level. Please let us know whether our understanding is correct	The truck management software shall be a component with the ESRPMS - please see the ESRPMS specifications and the truck management software specifications carefully.
55	Transit Electronics Limited	Vol2-Pag	2.8.18	Visitor Management Software	E-SRPMS Platform has to be integrated with Visitor Management Level at API/HTTPS/WEB Level. Hope our Assumption is correct	Correct
56	Transit Electronics Limited	Vol2-Pag	2.8.18	Video Wall Integration	E-SRPMS Platform has to be integrated with Video Wall to create Multiple Screen Layouts from ISMS on Video Wall .Hope our Assumption is correct	Correct

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
57	Transit Electronics Limited	Vol2-Pag	2.8.18	ANPR Integration	E-SRPMS Platform has to be integrated with ANPR Analytics. Please let us know whether our understanding is correct	Correct
58	Transit Electronics Limited	Vol2-Pag	2.8.18	ANPR Integration	E-SRPMS Platform has to be integrated with ANPR Analytics. Hope our Assumptions is correct	Correct
59	Transit Electronics Limited	BOQ	Sr no 45	SITC of Enterprise Security Management System Software Suite, including Core Module, Disaster Management & Incident Response, Truck Management Software, Mobile Platform, Element Management, Integration with legacy CCTV Cameras, Access Control System, Visitor Management System, ERP (SAP) and other systems as per specifications. The quoted rate shall include all accessories and labour charges etc. and as directed by consultant/EIC.	Is Enterprise Management System Software Suite a full blown Command Control Center Platform which requires 2 way Integrations and communication to all the systems mentioned. Also does the purpose of this platform is to be Systems of System Platform in future wherein all the Systems will be Monitored, Controlled for ESMS Suite. If yes the Estimate mentioned for this Line Items is very less as this all includes the cost of various API/SDK Integration, Customisations and Inclusion of AI and ML Tools, Power BI and Many More	Yes the ESRPMS software is a command & control platform alongwith the other features asked for. Please read the tender document thoroughly.
60	Transit Electronics Limited	BOQ	Sr no 44	SITC of Enterprise Security Resource Planning & Management Software - Licenses as per specifications. The quoted rate shall include all accessories and labour charges etc. and as directed by consultant/EIC.	As per the Scope of Work requirement, the Cost Estimated per Node is too less as per the Industry Standard. Please also provide us the Node Count Bifurcation as this included all the licenses whether is it for cameras, pa speakers, Video Analytics and mutiple integration	For the node count bifurcation please refer the SOR for detailed quantities of all the items

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
61	Transit Electronics Limited	Vol2-Pag 23	2.5	Cameras should be installed on the existing structures, buildings, flood light towers, watch towers, etc. by providing necessary brackets, hooks, nuts & bolts. All camera accessories & fitments are in the scope of the bidder.	Please provide the Tentative No of Cameras which will be installed on existing structures to estimate the Accessories and Fitments Cost	The pole quantity is already estimated in the SOR. Wherever site conditions so demand, the camera may be installed on the existing structures. All cameras are to be quoted alongwith accessories and fitment costs.
62	Transit Electronics Limited	Vol2-Pag 23	2.5	The system should be capable to interface with other networks within Purchaser.	Please provide the exact information of Other Networks	The system shall be integrated with the MRPL IS department (Information Systems) network. Exact details of the network shall be provided to the selected bidder
63	Transit Electronics Limited	Vol2-Pag 23	2.5	All outdoor enclosures/equipment/accessories/electronics/cameras shall further be provided with a 5 mm thick FRP canopy with spikes, firmly attached. The same shall preferably be integrated by manufacturer considering ease of maintenance access. All such GA Drawings shall be furnished for approval prior to manufacturing	Please provide need of Additional 5mm FRP Canopy	The MRPL site is a heavy rain-prone area and hence, the FRP caopy is required for protection from rain.
64	Transit Electronics Limited	Vol2-Pag 23	2.5	Authorization that the items quoted by the tenderer are in production and would be supported for service for at least 10 years from the date of the final commissioning	Please make the it for atleast 7 years from the date of Final Commissioning	7 years from the date of final commissioning is acceptable

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
65	Transit Electronics Limited	vol 1 - pg no 446	Schedule of Rates	<p>18. SITC of Bidirectional waist-high two-swing door barriers; 304 SS Construction with transparent polycarbonate doors; integrated drive/controller; 650mm Passage Width; Sensors to detect tailgating/piggybacking; trolley bag detection; Definable Fail Safe/ Fail Secure Operation; Silent Operation as per specifications. The quoted rate shall include all accessories and labour charges etc. and as directed by consultant/EIC.</p> <p>19. SITC of Accessibility Swing Barriers (Wide Lane) as per specifications. The quoted rate shall include all accessories and labour charges etc. and as directed by consultant/EIC.</p>	<p>1) Standard lane passage 650mm passage asked : Can we provide 600mm passage as its standard passage.</p> <p>2) Total Qty 19 lane : what is the configuration of swing lane barriers. How many standard lanes of swing barrier.</p> <p>Also requesting you to kindly do have relaxation and amend the Physical Access Control Equipment - PTR with Min 4 projects in Oil and gas sector.</p>	<p>Tender terms shall prevail.</p> <p>Please check the Corrigendum 1 for the lane configuration details.</p>
66	Transit Electronics Limited	44 of 276	Volume II SECTION 3 Technical Specifications 3.1. Indoor Dome Camera	Lens: 3 (+/- 1) mm to 9 (+/- 1) mm, to ensure that the horizontal field of view is minimum 100 degrees to maximum 40 degrees.	<p>We request you Kindly amend this specification as per below to allow wider participation</p> <p>" Lens: 3 (+/- 1) mm to 9 (+/- 1) mm, to ensure that the horizontal field of view is minimum 94.2 degrees to maximum 40 degrees. "</p>	Tender terms shall prevail

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
67	Transit Electronics Limited	45 of 276	Volume II SECTION 3 Technical Specifications 3.2. Outdoor Fixed Camera	Lens: 5 to 50 mm CS mount, Varifocal Motorized with Remote Focus & Zoom Form factor can be bullet or box	Request you to accept the below suggested changes as CS mount is applicable for Box Cameras . Lens: 5 to 50 mm CS mount/ M14 mount Varifocal Motorized with Remote Focus & Zoom Form factor can be bullet or box	Mount suitable for Bullet cameras shall be acceptable
68	Transit Electronics Limited	47 of 276	Volume II SECTION 3 Technical Specifications 3.4. Panoramic / 180 Degree Camera / 360 Degree Camera	6.Resolution:5MP x 4 or better (per lens)	Request you to accept the 4MP resolution (4MP*4=16MP) for 180 degree and 2MP resolution (2MP*8=16MP) for 360 degree view for wider participations. Kindly Amend this as below 6. Resolution: 4MP x 4 or 2MP x 8 or better (per lens)	Tender terms shall prevail
69	Transit Electronics Limited	47 of 276	Volume II SECTION 3 Technical Specifications 3.4. Panoramic / 180 Degree Camera / 360 Degree Camera	8.Image Features : Electronic Image Stabilization & WDR	8. Image Features: Electronic Image Stabilization & WDR Request you to remove EIS as this is required in PTZ or very high zoom cameras where on full zoom, it is difficult to get the stable image.	Tender terms shall prevail

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
70	Transit Electronics Limited	51 of 276	Volume II SECTION 3 Technical Specifications 3.6. Face Recognition Cameras	General IP True Day/Night Outdoor Fixed Box Camera, PoE enabled, ONVIF Compliant, low light visibility, clear visibility under rainy/cloudy/lightning conditions also. Immunity against EMI, RFI & lightning.	Request you to amend as per below as Bullet camera alos in option as MRPL have asked motorized varifocal lens which i possible in Bullet type only. Amend as " General IP True Day/Night Outdoor Fixed Box/ Bullet Camera, PoE enabled, ONVIF Compliant, low light visibility, clear visibility under rainy/cloudy/lightning conditions also. Immunity against EMI, RFI & lightning."	Bullet camera shall be acceptable
71	Transit Electronics Limited	51 of 276	Volume II SECTION 3 Technical Specifications 3.6. Face Recognition Cameras	Lens:5-50 mm lens (Varifocal, Motorised Lens) or appropriate to capture human face from a height of 3 meters at a distance of 10 meters.	Request you to ask manual varifocal lens if the requirement is of Box type cameras as most of the OEMs do not have support of motorized lens in box type cameras. Amend as below "Lens:5-50 mm lens (Varifocal, Manual or Motorised Lens) or appropriate to capture human face from a height of 3 meters at a distance of 10 meters."	Tender terms shall prevail
72	Transit Electronics Limited	51 of 276	Volume II SECTION 3 Technical Specifications 3.6. Face Recognition Cameras	Image Features: Electronic Image Stabilization, auto-focus, Head Light Compensation (HLC) & WDR of 120 dB or better. Ability to capture & process image/s of multiple vehicles entering/exiting in parallel also.	Image Features: Electronic/ Digital Image Stabilization, auto/ Remote -focus, Head Light Compensation (HLC) & WDR of 120 dB or better. Ability to capture & process image/s of multiple vehicles entering/exiting in parallel also. Request you to ask remote focus and Digital Image	Tender terms shall prevail

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
					Stabilization in option. As auto focus and is applicable only for motorized lens which comes in Bullet type cameras.	
73	Transit Electronics Limited	53 of 276	Volume II SECTION 3 Technical Specifications 3.7.1 IP Horn Speaker	Operation: Operating temperature shall be > 55 deg C.	Operation: Operating temperature shall be > 50 deg C. Requesting to amend as per above to allow wider participation.	Tender terms shall prevail
74	Transit Electronics Limited	53 of 276	Volume II SECTION 3 Technical Specifications 3.7.1 IP Horn Speaker	Mechanical: Wall & Pole mountable; IP66 or better; Mounting Brackets to be included.	Mechanical: Wall & Pole mountable; IP66/IP65 or better; Mounting Brackets to be included. Requesting to amend as per above to allow wider participation.	Tender terms shall prevail
75	Transit Electronics Limited	53 of 276	Volume II SECTION 3 Technical Specifications 3.7.1 IP Horn Speaker	Specs: 30 W speaker with built in amplifier, standard POE support, simple installation with single network cable, Shall support SIP integration. Shall be controlled through an audio management software (to be integrated with proposed ESRPMS)	Specs: 30 W/10W speaker with built in amplifier, standard POE support, simple installation with single network cable, Shall support SIP integration. Shall be controlled through an audio management software (to be integrated with proposed ESRPMS) Requesting to amend as per above to allow wider participation.	Tender terms shall prevail

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
76	Transit Electronics Limited	53 of 276	Volume II SECTION 3 Technical Specifications 3.7.2 Ceiling Speakers	Mechanical: IP66 or better; Mounting Brackets to be included.	Mechanical: IP66 or better ; Mounting Brackets to be included. Requesting to remove IP rating since ceiling speaker is mainly used for indoor applications	Tender terms shall prevail
77	Transit Electronics Limited	121 of 276	Volume II SECTION 3 Technical Specifications 3.57. Passive Components	7. Pigtails: Pigtail with semi-tight buffer PA/PBT, Ø 0.9 mm, yellow, multimode G651 50/125(OM3/OM4) or single mode G652.D 9/125 µm (OS1, OS2), length 1 m. Fitted with one LC connector in acc. with IEC 61754-20. Zirconia (ceramic) ferrule with a PC polished end face geometry, connectors tuned in accordance with IEC 61755-3-1 and qualified in acc. with IEC 61753-1 for category U (uncontrolled environment). material PEI / UL 94 V-0, strain relief and white plastic dust cover Mechanical specifications: Mating cycles: delta IL < 0.2 dB after 500 mating cycles Pull-out force fiber pigtail: ≥ 5 N	Requesting to amend as per below to allow wider participation. Requesting you to change LC to SC connector as per the Patch cord specification mentioned. 7. Pigtails: Pigtail with semi-tight buffer PA/PBT, Ø 0.9 mm, yellow, multimode G651 50/125(OM3/OM4) or single mode G652.D 9/125 µm (OS1, OS2), length 1 m. Fitted with one SC connector in acc. with IEC 61754-20. Zirconia (ceramic) ferrule with a PC polished end face geometry, connectors tuned in accordance with IEC 61755-3-1 and qualified in acc. with IEC 61753-1 for category U (uncontrolled environment). material PEI / UL 94 V-0, strain relief and white plastic dust cover Mechanical specifications: Mating cycles: delta IL < 0.2 dB after 500 mating cycles Pull-out force fiber pigtail: ≥ 5 N	SC connector is acceptable

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
78	Transit Electronics Limited	123 of 276	Volume II SECTION 3 Technical Specifications 3.57. Passive Components	19. OFC Cable: 24 core, Uni-tube, Armoured, Direct Burial 62.5 µm /125 µm SM FO cable UNITUBE CONSTRUCTION, GEL FILLED, MULTIMODE OPTICAL FIBRE CABLE (OFC) WITH 24 Nos. 62.5/125 MICRONS COLOUR CODED FIBRES AS PER G.651 STANDARDS, ECCST ARMOUR, EMBEDDED STEEL WIRE / FRP STRENGTH MEMBERS, WATER SWELLABLE/WATER BLOCKING TAPE & OUTER UV RESISTANT AND FIRE RETARDANT LSZH SHEATH HAVING ANTITERMITE AND ANTI-RODENT PROPERTIES, SUITABLE FOR DIRECT/DUCT BURIAL	19. OFC Cable: 24 core, Uni-tube, Armoured, Direct Burial 62.5 µm /125 µm SM FO cable UNITUBE CONSTRUCTION, GEL FILLED, MULTIMODE OPTICAL FIBRE CABLE (OFC) WITH 24 Nos. 62.5/125 MICRONS COLOUR CODED FIBRES AS PER G.651 STANDARDS, ECCST ARMOUR, EMBEDDED STEEL WIRE / FRP STRENGTH MEMBERS, WATER SWELLABLE/WATER BLOCKING TAPE & OUTER UV RESISTANT AND FIRE RETARDANT HDPE SHEATH HAVING ANTITERMITE AND ANTI-RODENT PROPERTIES, SUITABLE FOR DIRECT/DUCT BURIAL Requesting you to change the LSZH jacket to HDPE Jacket as it is Anti-Termite	HDPE sheath is acceptable
79	Transit Electronics Limited	45 of 276	Volume II 3.2 Outdoor fixed camera > Lens	5 to 50 mm CS mount, Varifocal Motorized with Remote Focus & Zoom Form factor can be bullet or box	In Tender 5-50 mm lens has been asked, considering actual requirement we suggest to change it to 9-50mm	Tender terms shall prevail
80	Transit Electronics Limited	45 of 276	Volume II 3.2 Outdoor fixed camera > Video Streams	Multi-streaming (Minimum 4 Nos user-defined & configurable - different frame rate, bit rate, resolution, quality, and compression format) support	In tender its has been asked for 4 stream support but considering the nature of project we think 3 streams are enough, request you to please change it to 3 stream	Tender terms shall prevail. This is a functional requirement, bidders may achieve it using camera or third party devices (without any extra cost to MRPL)

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
81	Transit Electronics Limited	46 of 276	Volume II 3.3 PTZ camera > Zoom	30x Optical Zoom & 12x Digital Zoom (or better)	In tender 12X digital zoom has been asked, as per industry standard we are requesting to change it to 8X	Tender terms shall prevail
82	Transit Electronics Limited	46 of 276	Volume II 3.3 PTZ camera > Video Streaming	Multi-streaming (Minimum 4 Nos user-defined & configurable - different frame rate, bit rate, resolution, quality, and compression format) support	In tender its has been asked for 4 stream support but considering the nature of project we think 3 streams are enough, request you to please change it to 3 stream	Tender terms shall prevail. This is a functional requirement, bidders may achieve it using camera or third party devices (without any extra cost to MRPL)
83	Transit Electronics Limited	47 of 276	Volume II 3.5 APNR Camera > Lens	5-50 mm lens (Varifocal, Manual or Motorised Lens) or appropriate to capture minimum 3.5 meters lane width	In Tender 5-50 mm lens has been asked, considering actual requirement we suggest to change it to 9-50mm	Tender terms shall prevail
84	Transit Electronics Limited	61 of 276	Volume II 3.18. Long range reader	Volume II 3.18. Long range reader	Connectivity : Ethernet, with PoE /PoE ++(this need to be controller feature and not reader, Reader will have weigand output)	Tender terms shall prevail
85	Transit Electronics Limited	61 of 276	Volume II 3.18. Long Range Reader	Volume II 3.18. Long Range Reader	The readers shall be compatible to read FASTags issued/used by the NHAI.(using FAST tag for access control is not recommended as it shares user data openly..Rosslare suggest to use separate UHF tag for access control application)	Tender terms shall prevail
86	Transit Electronics Limited	63 of 276	Volume II 3.19. Access cards	Volume II 3.19. Access cards	The card shall be capable of completing any write operation, even if the card has been removed from the RF field during that operation.(how data will write if card removed from RF field)	Please read the requirement as " The card shall be capable of completing write operations"

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
87	Transit Electronics Limited	55 of 276	Volume II 3.8. Face Recognition Readers	5" Touch Screen & Android based Face Recognition cum Fingerprint Reader; Anti-Spoofing; Fake Fingerprint Detection; Integration with Fingerprint/QR sensor (Optional); 30,000 Face (1:N)/(1:1); 50,000 Fingerprint (1:N)/5,00,000(1:1); 5,00,000 Card & PIN Users; 10 million Transaction & 20,000 Image Logs; Card Reader (RF, Mifare; HID Prox & HID iclass (Optional)); Communication: TCP/IP, Wiegand Out / IN, RS 485/OSDP, RS 232, USB; NFC & Bluetooth supported User wise authentication modes; Built in Lock Control; On- board Dual Camera; Inbuilt wi-fi; Mask/No Mask Detection & Alert (configurable); Up to 30,000 lux illumination; IP65 & IK06 Compliant; UL Listed	Please do a relaxation on UL Listed which is not available, However the Power Supply is UL listed.	The requirement for UL Listing for Face Recognition Readers is hereby removed

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
88	Transit Electronics Limited	55 of 276	Volume II 3.11. Portable Face Readers (In Bus)	5" Touch Screen & Android based Face Recognition cum Fingerprint Reader; Anti-Spoofing; Fake Fingerprint Detection; Integration with Fingerprint/QR sensor (Optional); 30,000 Face (1:N)/(1:1); 50,000 Fingerprint (1:N)/5,00,000(1:1); 5,00,000 Card & PIN Users; 10 million Transaction & 20,000 Image Logs; Card Reader (RF, Mifare; HID Prox & HID iclass (Optional)); Communication: TCP/IP, Wiegand Out / IN, RS 485/OSDP, RS 232, USB; NFC & Bluetooth supported User wise authentication modes; Built in Lock Control; On- board Dual Camera; Inbuilt wi-fi; Mask/No Mask Detection & Alert (configurable); Up to 30,000 lux illumination; IP65 & IK06 Compliant; UL Listed Format shall be portable with a battery pack. The device shall also be powered by the on- board bus battery. The device shall have also connect to an external 4G modem which is in the scope of the bidder. The device shall be powered on when the bus battery starts and shall connect to the central system when in switched on condition. Device should be tamper-proof and in case a casing is required in the bus, the same shall be supplied by the bidder without any additional cost	I would like to request a relaxation regarding the UL listing requirement, please remove UL as the specific component is not available. Your understanding and consideration of this matter would be greatly appreciated.	The requirement for UL Listing for Portable Face Readers is hereby removed

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
89	Transit Electronics Limited	56 of 276	Volume II 3.12. Portable Face Readers (On Gates)	5" Touch Screen & Android based Face Recognition cum Fingerprint Reader; Anti-Spoofing; Fake Fingerprint Detection; Integration with Fingerprint/QR sensor (Optional); 30,000 Face (1:N)/(1:1); 50,000 Fingerprint (1:N)/5,00,000(1:1); 5,00,000 Card & PIN Users; 10 million Transaction & 20,000 Image Logs; Card Reader (RF, Mifare; HID Prox & HID iclass (Optional)); Communication: TCP/IP, Wiegand Out / IN, RS 485/OSDP, RS 232, USB; NFC & Bluetooth supported User wise authentication modes; Built in Lock Control; On- board Dual Camera; Inbuilt wi-fi; Mask/No Mask Detection & Alert (configurable); Up to 30,000 lux illumination; IP65 & IK06 Compliant; UL Listed	I would like to request a relaxation regarding the UL listing requirement, please remove UL as the specific component is not available. Your understanding and consideration of this matter would be greatly appreciated.	The requirement for UL Listing for Portable Face Readers is hereby removed
90	Transit Electronics Limited	57 of 276	Volume II 3.14. 10 Finger enrolment readers (for contract labour)	Compliance : ROHS, UL, CE, BIS	I would like to request a relaxation regarding the UL listing requirement, as the specific component is not available. Amend this as "Compliance : ROHS, UL , CE, BIS" Your understanding and consideration of this matter would be greatly appreciated.	The requirement for UL Listing for Finger Enrolment Readers is hereby removed
91	Transit Electronics Limited	61 of 276	Volume II 3.18. Long-range Readers	Reader : c) Protection : IP 68 d) Connectivity : Ethernet, with PoE /PoE ++	C) Please do relaxation and requesting you accept IP66 as well. D) Poe is not available but Implementing PoE can involve additional costs for compatible switches and cables, PoE has distance limits also. So requesting you to kindly accept without POE connectivity as well.	IP 66 is acceptable. In case POE is not provided, power supply shall be considered separately, without any incidence of cost to MRPL.

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
92	Transit Electronics Limited	53 of 276	Volume II 3.7.2. Ceiling Speakers	Type : Ceiling type loudspeaker 20 W	Kindly accept with 105dB/1m	Please see the Corrigendum 1 for revised specifications
93	Transit Electronics Limited	53 of 276	Volume II 3.7.2. Ceiling Speakers	Operation : Suitable for indoor areas; clearly audible (comfort hearing) at a radial distance of 30m at > 500 angle (at surrounding noise level of ~80 to 100 db) with sound level differential of minimum 20 to 30 db. Operating temperature shall be > 40 deg C.	Not sure anyone would be able to meet this requirement with an IP Ceiling speaker. If it's 120dB (assuming 100dB max noise w/20dB above) @ 30m radial distance that would equate to 150 dB @ dB @1m. That seems unrealistically high SPL for a ceiling speaker. Acoustic study is to be done and actual dB level to be updated for workable solution	Please see the Corrigendum 1 for revised specifications
94	Transit Electronics Limited	53 of 276	Volume II 3.7.2. Ceiling Speakers	Mechanical : IP66 or better; Mounting Brackets to be included.	Kindly accept IP54	Please see the Corrigendum 1 for revised specifications
95	Transit Electronics Limited	73 to 74	Volume II 3.29. 8-Port Industrial Switch	General	Kindly consider 4 X1 OFC links for uplink as the minimum to create sub-rings and extend range	Tender terms shall prevail
96	Transit Electronics Limited	73 to 74	Volume II 3.29. 8-Port Industrial Switch	L3 Features	Kindly consider removing RIP v1&v2 since rings are formed with L2 protocols and routing protocols are required in distribution and core	Tender terms shall prevail
97	Transit Electronics Limited	73 to 77	Volume II 3.29/3.30/3.31	L3 Features	Kindly consider REP and ERPS ITU G.8032 as an equivalent protocol with convergence time between 50 to 200 ms for more vendor participation and addressing dual-ring, split-brain and super-loop problems in ring architecture.	Tender terms shall prevail

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
98	Transit Electronics Limited	73 to 77	Volume II 3.29/3.30/3.31	SFP	Kindly consider removing 100BX(Bi-directional) optics as the rings are terminated at distribution or core and can be substituted with 1000BX optics	Tender terms shall prevail
99	Transit Electronics Limited	89	Volume II 3.36. Network Management System	Volumetric details	In order to calculate the hardware sizing and license count, please provide following details NMS 1. No of network devices to be monitored along with the bifurcation (routers, switches, firewalls, servers, UPS and any other SNMP devices) NetFlow management 1. Total EPS (Event per second) Helpdesk 1. No of technicians for Helpdesk	Bidders are advised to check the SOR for quantities of devices to be monitored by the NMS. All edge devices and control room devices shall be monitored by the NMS
100	Transit Electronics Limited	89	Volume II 3.36. Network Management System	Shall support integration with NAC, IPS, SIEM and other third party security appliances to respond automatically and remediate threats in real-time	Please define the scope and usecase for the integration with other application	Tender terms shall prevail.
101	Transit Electronics Limited	90	Volume II 3.36. Network Management System	Shall Transform complex network data into business-centric, actionable information and easily integrate with business apps with Software Defined Networking	Please define the scope and usecase for the integration with other application	Tender terms shall prevail

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
102	Transit Electronics Limited	90	Volume II 3.36. Network Management System	Additional specifications	<p>In order to avoid tempering with SLA calculation, we recommend authority to select solution with in-built database for ensuring better control and flexibility along with lower TCO, we request the authority to incorporate the below clause:</p> <p>"The monitoring module of proposed solution must not use any third party database (including RDBMS and open source) to store data in order to provide full flexibility and control on collected data as well as avoiding tempering with SLA calculations."</p>	Tender terms shall prevail
103	Transit Electronics Limited	90	Volume II 3.36. Network Management System	Additional specifications	<p>In order to select established NMS OEM with strong financial background in the industry, we request the authority to incorporate the below clause:</p> <p>"NMS OEM must have average annual turnover of atleast INR 30 Cr. or above in last 3 financial years with positive net worth and presence of min. 14 years in the market having the experience of deployment . CA certificate need to be submitted at time of bid submission."</p>	Tender terms shall prevail

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
104	Transit Electronics Limited	90	Volume II 3.36. Network Management System	Additional specifications	<p>Adding the following clause in the RFP requiring ITIL alignment and ITIL4 certification for Monitoring and Event Management & Capacity & Performance Management justifies the adoption of best practices, quality assurance, and standardized IT service management. It ensures improved efficiency and vendor expertise while setting clear expectations and demonstrating a commitment to continuous improvement in IT practices.</p> <p>The proposed NMS solution should be aligned with ITIL framework principles and certified with ITIL4 for Monitoring & Event Management and Capacity & Performance Management process.</p>	Tender terms shall prevail

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
105	Transit Electronics Limited	90	Volume II 3.36. Network Management System	Additional specifications	<p>ISO and CIS standards are a set of security guidelines and best practices developed by the nonprofit organizations such as ISO and CIS. These standards provide detailed configuration recommendations and benchmarks for securing your enterprise network. The purpose of these benchmarks is to provide industry-recognized guidelines for secure system configuration. These benchmarks help the authority to enhance their security posture, mitigate risks, and ensure compliance with industry standards and regulatory requirements. Hence we request you to add the following clause in the RFP</p> <p>"The OEM of the proposed solution should possess Quality certifications ISO 9001, Information security certificate ISO 27001, Application security certificate ISO 27034 and CIS benchmark certificate. Documentary proof must be provided at the time of submission."</p>	Tender terms shall prevail

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
106	Transit Electronics Limited	90	Volume II 3.36. Network Management System	Additional specifications	<p>Adding the following clause in the RFP requiring ITIL alignment and ITIL4 certification for Monitoring and Event Management justifies the adoption of best practices, quality assurance, and standardized IT service management. It ensures improved efficiency and vendor expertise while setting clear expectations and demonstrating a commitment to continuous improvement in IT practices.</p> <p>"The proposed solution should be aligned with ITIL framework principles and certified with ITIL4 with minimum 12 practices like:</p> <p>Monitoring & Event Management ,Incident Management, Service Request Management, Problem Management, Service Level Management Capacity & Performance Management,Availability Management, Change Enablement Release Management, Knowledge Management Measurement & Reporting Management IT Asset Management"</p>	Tender terms shall prevail

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
107	Transit Electronics Limited	59 of 276	Volume II 3.16. Bollards		<p>Bollards K 12 Crash Certified rating shall be applicable for a single unit.</p> <p>Requirement of Emergency Fast Operation (EFO) is not mentioend in the specs.</p> <p>Bollards shall have Inbuilt hydraulic drive unit with all connection within each bollard for reliable operation and shall have Compact hydraulic drive unit with high pressure pump, integrated in a drive cabinet within bollard.</p> <p>Failure Safety: During any maintenance issue in single bollard drive unit other bollard should be remained operational, so that partial system will work without any issue.</p>	Please see Corrigendum 1
108	Transit Electronics Limited	59 of 276	Volume II 3.17. Boom Barriers		<p>Opening Closing Time For 3.5 mtr - 1.3 sec For 3.5 ~6 mtr - 4.0 sec</p>	Tender terms shall prevail
109	Transit Electronics Limited	114 of 276	Volume II 3.49. Outdoor Digital Displays	Certification : CE, FCC, UL/ETL/CB	<p>Requesting you kindly make UL/ETL/CB as optional certification because as per MII policy only BIS certificate is mandtory instead of asking foreign certificate. And kindly add BIS certification for the same.</p>	UL/ETL/CB certification can be considered as optional. BIS certification is mandatory for all items in the tender.

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
110	Transit Electronics Limited		1.9	Security of Material :Security of all material in the section where the work is in progress shall be the contractor's responsibility and he shall arrange to guard the same from theft/pilferage/vandalism. In the event of any loss the contractor shall be responsible for the same. Any stores lost, prior to formally taking over by the Purchaser, shall be made good by the contractor at no cost to the Purchaser	We assume that space for Stores will be provided by the Customer and this will be inside the building or we need to provide and container for Storage. Guarding of Store will be accepted Physically or Digitally	The space for storage shall be provided by MRPL. However, once the material is received in storage till it is installed, the material shall be in the custody of the contractor. Digital guarding shall be OK.
111	Transit Electronics Limited	30	2.8.2	Spares	We request to remove the NAS/ SAN Box from the Spare as there Multiple Redundancy asked in the Enterprise Level NAS/SAN Box. Also, the cost of NAS/ SAN Box is extremely high to keep the same in the same. Yes the critical components like Hot Swappable can be kept in spares	NAS / SAN box is deemed to be removed from the list of spares
112	Transit Electronics Limited	31	2.8.4	It is proposed to avail 1 Project Manager (Minimum Experience of 10 + years), 2 supervisory operational resource (Minimum Experience of 7+ years) support for supervising operations, & 2 Nos. O&M engineers (minimum experience of 5+ years), for the period of the contract, from the date of the Go-live.	The FMS Manpower has be provided from the Date of Hand Over till the completion for the CAMC Period which means 1 year Warranty + 4 years CAMC. Hope our Assumption is correct	Correct

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
113	Transit Electronics Limited	31, 233	2.8.6.6	Man Power during Warranty Period : During warranty period / defect liability period, the bidder shall depute at least four(4) persons, one of whom shall be a supervisor. The service team of 4 persons shall be responsible for the daily maintenance of the system. The entire service team shall have experience and expertise in the deployed technologies. At least one member of the team shall be an expert in software configuration and data centre support. At least one member of the team shall be an expert in the maintenance of the physical access control devices.	Do we need to follow the count mentioned in the 2.8.4 or 2.8.6.6	Bidders should refer 2.8.6.6 for the manpower requirements.
114	Transit Electronics Limited		2.8.9	Penalty Clause 1; If the system/any component is down for more than 24 hours, Rs.10,000/day will be deducted from the CAMC bills	Request kindly revise this clause to more than 48 Hrs.	Tender terms shall prevail
115	Transit Electronics Limited		2.8.12	Third Party Inspection : Third party inspection shall be arranged by the agency at their own cost by one of the following agencies - Bureau of Indian Standards / DNV / EIL / Lloyd Register of Shipping / Bureau Veritas / IRS / any other BIS registered TPI agency / agencies as registered with MRPL TPI shall be undertaken for all components including hardware, networking components and off the shelf software	Please provide the List of Agencies registered with MRPL. Also, please exact the list of Components of the BOQ which requires TPI	All components of the SOR shall require TPI.

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
116	Transit Electronics Limited		1.7.11	Civil & Structural Works for Electrical System :No separate payments shall be admissible for Mild Steel Structural works envisaged for the installation of electrical equipment in this project. Rates for the supply, fabrication & installation of MS Structural Steel supports / brackets (Flats, Angles, Channels, Plates etc) for all equipment mounting / installation are included in the respective equipment installation rates and will not be paid separately.	The Scope of Electrical System is on High Magnitude. In the Absence of Electrical Drawings, it's very difficult to envisage this cost. We request to kindly delete the clause	There is a detailed estimation of the electrical items in the SOR. Tender terms shall prevail.
117	Transit Electronics Limited		1.7.12	Payments for structural Mild Steel required for Cable Tray Supports – including supply, fabrication, installation & painting shall be done separately on weight basis. Before claiming payments, relevant measurement sheets shall be prepared with sectional drawings indicating dimensions & weights of cable tray supports – which shall be duly approved by the owner / engineer-in-charge	Are there any rates defined by MRPL on the Weight Basis.. If Yes please provide the same	This clause is a standard clause, but not applicable to present tender
118	Transit Electronics Limited		1.10.1	Painting :Internal and external electrical equipment's enclosure and all metal parts including the canopy likely to come in contact with the surrounding air shall be protected with anti-acid paint that will resist the specified environment conditions. The paint specifications (as per Indian Standards or the RAL System) & color shades shall be finalized by the owner / engineer-in-charge during detailed engineering.	Please include this as a BOQ Line	Tender terms shall prevail

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
119	Vehant Technologies Pvt Ltd.	69	3.27. Under Vehicle Scanning System	<p>4. The Composite imaging cameras should be a high quality, COLOR AREA SCAN, GigE type, with minimum resolution of (1280 x 1024) or above and a suitable Lens of minimum Field of View 180 Degrees width . The minimum specification of this Area-scan camera to be: -</p> <p>c. Field of View: Minimum 180 Degrees to scan very wide Vehicles when needed</p>	<p>Since the camera has to see the underside of the moving above it, so the use of field of view more than 180 degree is not clear.</p> <p>Considering practical situation please clarify why 180 degree view is required as camera is not to see area below it, it is expected to see only the underside of car which is above it.</p> <p>Therefore kindly consider Field of View >135 deg or better</p>	Field of view of 135 deg or better is acceptable
120	Vehant Technologies Pvt Ltd.	70	3.27. Under Vehicle Scanning System	<p>g. Under Vehicle Camera casing environment protection rating: -20 Degrees Celsius - +70 Degrees Celsius; And Environment protection test certificate (From NABL Accredited LAB) of Humidity rating of at least 90%</p>	<p>As per MHA specifications the operating temperature has been defined as -10 degree to +55 degree as per point 26 of MHA specification, this has been defined after judiciously considering the ambient temperature conditions in India.</p> <p>Since the system will installed in Karnataka region, India so the temperature range defined by MHA should be respected and considered as +70 degree and -20 degree will never reach in Mangalore.</p> <p>Mentioning of this specific temperature range in tender will give undue advantage to specific OEM which is against clause 10 e of Public procurement (Preference to Make in India) Order 2017. Hence we request to please</p>	Temperature rating of - 20 degrees C to + 55 degrees C shall be acceptable

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
					<p>consider Therefore consider temperature rating -10°C and above 55°C as per MHA specs.</p>	

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
121	Vehant Technologies Pvt Ltd.	71-72	3.27. Under Vehicle Scanning System	<p>g. Supported OS: Licensed Windows 11 Pro 64 Bit (No Free Ware/ No Free source Operating System should be there). OEM Should Submit License Purchased for the Operating System Usage.</p> <p>12. The UVSS applications & operating software should mandatorily be based on Licensed Windows platform Using only Licensed Applications Whenever/Wherever needed, Strictly No Freeware or Free source or Open Source Operating Systems or applications shall be used. It must have a user-friendly Graphical User Interface (GUI) with provision for multiple users logging of events and search facility. The Operating System and the Software used should be registered/Licensed in the name of the buyer and Support should be available from the Developer of the Operating System for the next 5 years.</p> <p>17. Operating System should be Latest Windows 11 Pro 64 Bit Software for full functioning of the system.</p>	<p>In MHA specification operating system is mentioned as Windows/Linux as it is OEM specific as per point 11, point 14 and point 16 of MHA specification.</p> <p>Mentioning of specific OS will give undue advantage to specific bidder and will deny opportunity to other to Hence it will not give equal and fair opportunity to bidders to participate which is against various Govt. policies and guidelines to promote Make in India product.</p> <p>Also would like to mention that Linux is more secure than Windows. Windows is susceptible to viruses, hacking and malware. Hence for critical security equipment Linux is more preferred OS.</p> <p>Our Linux bases system are working in Parliament of India, Rashtrapati Bhawan, Chandigarh Secretariat, Supreme Court etc. Hence we request to please consider "Windows/Linux or other OS as per OEM"</p>	<p>Windows / Linux or other OS shall be acceptable. Bidder to provide the applicable OS on the server or client machines as required, without any extra cost to MRPL.</p>

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
122	Secutech Automation (India) Pvt. Ltd.	V2 -112	3.47. Document Camera (for VMS)	Shall be integrated with current visitor management system. In case of non-compatibility, bidder shall ensure compatible make & model of the document camera is supplied	Provide the existing Visitor Management system make , software version platform details to check the compatibility for integration.	The current visitor management software make is an in-house software, developed by MRPL. The visitor management software is being changed to "Origgotech". Bidders have to ensure integration with the same especially for Kiosk based Visitor Management System. Any costs estimated for the same should be considered to be included in the ESRPMS.
123	Secutech Automation (India) Pvt. Ltd.	V2 -104	3.38. Access Control Software	In MRPL scope	Provide the existing Access Control Software make , software version platform details for integration,	The access control software make is "Origgotech". However, bidders have to note that they should consider all the costs required for the additional access control management software licenses that are required as per the present tender, for all the access control devices including the controllers, face readers, finger print readers, card readers and QR code readers . These costs should be considered under the ESRPMS.
124	Secutech Automation (India) Pvt. Ltd.	V2 -104	3.39. Visitor Management Software	In MRPL scope	Provide the existing Visitor Management Software make , software version platform details for integration	The current visitor management software make is an in-house software, developed by MRPL. The visitor management software is being changed to "Origgotech". Bidders have to ensure integration with the same especially for Kiosk based Visitor Management System. Any costs estimated for the same should be

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
						considered to be included in the ESRPMS.
125	Secutech Automation (India) Pvt. Ltd.	V2 14	Integration :	Integration : The E-SRPMS shall be integrated with existing legacy systems such as SAP (for vehicle management), visitor management, access control legacy cameras and other systems identified during the course of the project. APIs for legacy systems shall be provided by MRPL. In case of biometric access control, integration shall be established with the server / software hosted at the MRPL data centre managed by the IT department. In case of legacy cameras which are on the GPON network, integration shall be software based.	Please confirm our understanding is correct or not the required Open Drivers / Open Protocols / Open API's/SDK etc for integration will be provided by MRPL free of cost to bidder.	Correct
126	Secutech Automation (India) Pvt. Ltd.	V2 99	3.37.3 Integration	Display Software to ESRPMS	Please provide detailed scope of work of bidder for Integration	The ESRPMS software should be able to push video / images / text to the indoor and outdoor display units, through the display software
127	Secutech Automation (India) Pvt. Ltd.	V2 99	3.37.3 Integration	respective mentioned system to ESRPMS	Please provide detailed scope of work of bidder for Integration	The integration requirements have been covered in the tender and the present response to the queries

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
128	Secutech Automation (India) Pvt. Ltd.	Vol 2 - Page No. 131	SECTION 4 SCHEDULE OF RATES Sr NO 42	The quoted rate shall include all accessories and labour charges etc. and as directed by consultant/EIC.	<p>As per BOQ under each line item its mentioned that "The quoted rate shall include all accessories and labour charges etc. and as directed by consultant/EIC."</p> <p>So kindly provide the detailed accessories list for each line item which Bidder needs to consider as directed by consultant/EIC." so all bidder can consider accordingly</p>	All the accessories that are required for the installation for any particular item shall be included in the quoted cost.
129	Secutech Automation (India) Pvt. Ltd.	131	SECTION 4 SCHEDULE OF RATES , Sr NO 14	SITC of Portable face readers (installation in buses) Make - Viridi UBio X Face Pro + GPRS / 4G Module as per specifications. The quoted rate shall include all accessories and labour charges etc. and as directed by consultant/EIC.	We required details regarding recurring cost of 4G SIM and plan etc. will be bear by MRPL/ or its in bidder scope for readers to be installed in the buses	It shall be in the scope of the bidder
130	Secutech Automation (India) Pvt. Ltd.	Vol 2 - Page No. 131	SECTION 4 SCHEDULE OF RATES Sr NO 42	SITC of IVA Software as per specifications. The quoted rate shall include all accessories and labour charges etc. and as directed by consultant/EIC. Qty - 103nos	<p>Please provide the Qty required for each type of Video Analytics as under BOQ total 103 Qty mentioned but not provided breakup for each type of IVA required. Bcoz i.e. Vehicle counting and People counting applicable only at particular gate camera not for all other cameras.</p> <p>So we request you kindly split 103 Qty by exact analytics for each type (how many vehicle counting, people counting through a particular gate, tripwire, abandoned object, object removal, motion detection, etc.)</p>	The break-up of the same shall be finalised in the roll-out stage. The system shall be capable to deploy at least 4 different analytics on each camera. Additional video analytics licenses if required shall be paid for additionally.

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
131	Secutech Automation (India) Pvt. Ltd.	Vol 2 - Page no. 17	2.4.2 Video Analytics	Video analytics shall add intelligence to the video surveillance system. It shall work on predefined rules over an area of interest within a scene in the field of view of the camera and shall alert the operator incase the rule condition is matched. Video Analytics shall be deployed for various purposes including vehicle counting, people counting through a particular gate, tripwire, abandoned object, object removal, motion detection, etc.		

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
132	Secutech Automation (India) Pvt. Ltd.	Vol 2 - Page no. 99	3.37.3 Integration : Video Management & Video Analytics / ANPR / RLVD / Face recognition to E-SRPMS	<p>The core day to day operations would be done using the existing software native interface. The intent of Integrating the system to the E-SRPMS platform is to get a common operating & monitoring interface to provide a single unified dashboard.</p> <p>The Integration between the E-SRPMS and the software would take place using Open Drivers / Open Protocols / Open API's which will be given by the respective system OEM to the bidder</p> <p>The following functionalities shall be available:</p> <ul style="list-style-type: none"> - Live View of the cameras in a cascaded / tree structure - GIS based mapping of cameras as icons which when clicked shall open up the camera view - Availability data - Analytic reports - ANPR reports - Violation reports - Traffic penalty numbers / amounts collected / recurring violators / defaulters etc. - Ability to replicate video wall views / scenarios <p>The above dashboards / functionalities are only indicative and bidder must be able to create custom dashboards on the E-SRPMS Platform</p>	Provide us existing VMS and each Video Analytics Make , Model/ Software Version with license Qty and each type of analytics	The current VMS Software is Intellve (previously 2020 Imaging) More details shall be provided to the selected bidder
133	Secutech Automation (India) Pvt. Ltd.	Vol 2 Pg. no.77	3.32. Server stack	The server stack should be mirrored in 2 control rooms – the PCR and the SCR, each with N +1 redundancy.	We understand and assume that N+1 Redundancy means for every 5 server bidder need to consider 1nos as failover server , please confirm our understanding is correct or not , if not kindly clarify and provide ratio of N+1. How	N +1 is an industry standard definition.

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
					many Max primary server allowed by MRPL in N+1 configuration ?	
134	Secutech Automation (India) Pvt. Ltd.	Vol 2 Pg. no.77	3.32. Server stack	The server stack should be mirrored in 2 control rooms – the PCR and the SCR, each with N +1 redundancy.	Kindly clarify Mirrored 2 control room with N+1 Redundancy required with Server Hardware and all Application Software i.e ESRPMS, VMS, ANPR Analytics server, FRS Server, UVSS, PACS, Digital Signage, Parking management all base software and License Etc.	Correct
135	Secutech Automation (India) Pvt. Ltd.	Vol 2 Pg. no.77	3.32. Server stack	The server stack should be mirrored in 2 control rooms – the PCR and the SCR, each with N +1 redundancy.	Required PCR room size to check the required space is available or not for new smart rack and server stack, Switches, UPS, storage etc..	As clarified in the pre-bid, for the time being, both the data centers shall be housed in one location. In case additional location is available one data center shall be shifted there.
136	Secutech Automation (India) Pvt. Ltd.	Vol 2 Pg. no.79	3.33. Video Storage System (SAN)	The overall storage solution should also included 60 days storage for the ISMS 2 cameras –the numbers are included in the Section 2.7.17.	We understand that we need to consider storage of this RFP camera qty 328nos plus ISMS 2 cameras Qty 121 only not for ISMS 210nos camera. Please confirm above our understading is correct or not , kindly clarify (Reference : as per existing camera list provided on Vol 2 page no 39 and 3.33. Video Storage System (SAN) page no 79)	The additional 60 days storage to be considered only for ISMS 2 cameras not ISMS cameras.
137	Secutech Automation (India) Pvt. Ltd.	Vol 2 Pg. no.79	3.33. Video Storage System (SAN)	The overall storage solution should also included 60 days storage for the ISMS 2 cameras –the numbers are included in the Section 2.7.17.	We don't find any Section 2.7.17 as mentioned in tender doc so kindly provide the same	It is 2.8.17

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
138	Secutech Automation (India) Pvt. Ltd.	Vol 2 Pg. no.38-39	2.8.17 Integration	2.8.17 Integration During the period of the project, the selected system integrator shall be required to integrate the cameras / software with the overall MRPL ISMS and ISMS 2 projects.	Kindly provide us existing Software details with Make , Model and versions for VMS and Analytics for integration	The current VMS Software is Intellve (previously 2020 Imaging) More details shall be provided to the selected bidder
139		Vol 2 Pg. no.38-39	2.8.17 Integration	2.8.17 Integration ISMS total 210 camera	It appears there is an error in the total quantity of ISMS cameras provided. The correct quantity should be 221 cameras, rather than the stated 210. So we request you please verify this and amend the quantity accordingly, including the required license quantities for integration?	Please check the corrected ISMS camera quantity included in the corrigendum 1.
140	Secutech Automation (India) Pvt. Ltd.	Vol 2 Pg. no.78	3.33. Video Storage System (SAN)	SITC of Video Storage System (SAN, with min usable space of 2100 TB) as per specifications. The quoted rate shall include all accessories and labour charges etc. and as directed by consultant/EIC. (Spec : The storage shall have the usable storage capacity calculated by the bidder + 20% spare space, using RAID 5.)	We understand that NO mirrored Video Storage System required in 2control room 1 nos each in PCR and SCR like servers. We need to consider only 1 nos Video Storage System please confirm our understanding is correct. The mirrored requirement only for servers " 3.32. Server stack mentioned on Page no 77 The server stack should be mirrored in 2 control rooms – the PCR and the SCR, each with N +1 redundancy."	Mirrored storage is required for 7 days. Please see the Corrigendum 1 for revised specifications

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
141	Secutech Automation (India) Pvt. Ltd.	Vol 2 Pg. no.78	3.33. Video Storage System (SAN)	SITC of Video Storage System (SAN, with min usable space of 2100 TB) as per specifications. The quoted rate shall include all accessories and labour charges etc. and as directed by consultant/EIC. (Spec : The storage shall have the usable storage capacity calculated by the bidder + 20% spare space, using RAID 5.)	Kindly provide us the Placement / Location of new 3.33. Video Storage System (SAN) i.e in PCR or at SCR	The video storage system shall be in the command & control room DC near the Main Gate
142	Secutech Automation (India) Pvt. Ltd.	Vol 2 Pg. no.30	2.8.2 Spares	III SAN/NAS Box	We request you kindly remove the Spares for SAN/NAS Box as asked storge in RFP specification already has "Redundancy : hot swappable components like controllers, disks, power supply, fans with standard security features as well as + 20% spare space, using RAID 5) So kindly remove CAMC Spares for SAN/NAS Box , By this we can save the overall project cost of Customer /MRPL	The spares for SAN / NAS box are deemed to be removed
143	Secutech Automation (India) Pvt. Ltd.	Vol 2 Pg. no.30	2.8.2 Spares	I Camera (all types) 5 % of each type, rounded off to the higher number with minimum being 1)	We recommend to consider one each of all types By this we can save the overall project cost of Customer /MRPL	Tender terms shall prevail
144	Secutech Automation (India) Pvt. Ltd.	Vol 2 Pg. no.30	2.8.2 Spares	II. Servers Spare Quantity 1 nos	We request to Remove Servers from spares List as in RFP Mirror server at PCR and SCR with N+1 redundancy already considered. By this we can save the overall project cost of Customer /MRPL	Servers are deemed to be removed from the list of spares

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
145	Secutech Automation (India) Pvt. Ltd.	Vol 2 Pg. no.30	2.8.2 Spares	Networking I Switches (all types)	We recommend to consider one each of all types By this we can save the overall project cost of Customer /MRPL	Tender terms shall prevail
146	Secutech Automation (India) Pvt. Ltd.	Vol 2 Pg. no.30	2.8.2 Spares	Networking Networking : III. All Passive Components such as patch cords (Ethernet & OFC), pigtails, splicing kits, splicing enclosures (all types) At least 100 numbers each	We request to revised the Qty as 10 numbers instead of 100nos each will be very higher side (As CAMC will be the bidder scope it will be on required basis as needed.)	The spares quantity for all passive components shall be 10 numbers
147	Secutech Automation (India) Pvt. Ltd.	Vol 2 Pg. no.131	SECTION 4 SCHEDULE OF RATES Sr. no 139, 140, 199, 219, 239 for UPS	UPS : 60KVA, 40KVA, 30KVA , 3KVA UPS	We noticed that the tender includes detailed specifications for the 1 KVA UPS, but we cannot find the specifications for the 60 KVA, 40 KVA, 30 KVA, and 3 KVA UPS units as mentioned in Section 4, Schedule of Rates (Sr. No. 139, 140, 199, and 219). So we request you provide the detailed specifications for these UPS units to ensure all bidder have all the necessary information for the BID submission	The specifications are included in the SOR in Volume 1
148	Secutech Automation (India) Pvt. Ltd.	Vol 2 Pg. no.131	SECTION 4 SCHEDULE OF RATES Sr. no 119	DG SET	We kindly request that you provide the detailed specifications for the DG Set, as we could not find this information in the tender documentation, unlike other system components. Having these specifications will ensure that all bidders have the necessary information for their bid submissions.	The specifications are included in the SOR in Volume 1

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
149	Secutech Automation (India) Pvt. Ltd.	Vol 2 Pg. no.128	3.64 Air Curtains	3.64 Air Curtains	<p>We need dimensions (Length, width , Height) of required Air curtains for each respective entrances and exits locations.</p> <p>please provide the measured lengths, widths, and heights of each entrance and exit door? We would appreciate it if you could include photos along with the measurements for better clarity.</p> <p>This will help all bidders to propose suitable air curtains based on these measurements.</p>	The size of the air curtains (length) shall be 900 to 1200 mm as mentioned. Photos cannot be shared.
150	Secutech Automation (India) Pvt. Ltd.	Vol 2 - Page No. 131	SECTION 4 SCHEDULE OF RATES Sr NO 42	SITC of Video Management Software as per specifications. The quoted rate shall include all accessories and labour charges etc. and as directed by consultant/EIC. -270 nos	<p>We noticed that the Video Management Software requires 270 licenses. We kindly request a detailed breakdown of how this quantity was determined.</p> <p>Based on our calculations under Section 4, Schedule of Rates, we have identified a total of 328 various types of cameras, 6 PTZ controllers, and 174 IP speakers, along with control desks, microphones, etc. Given this, it seems that the total quantity of licenses required for the Video Management Software should be a minimum of 508, rather than 270.</p> <p>So please verify the details and confirm the required licenses qty regarding the Video Management Software.</p>	The additional differential VMS licenses are considered in ISMS 2 project. In case additional VMS licenses are required, the cost for the same shall be paid by MRPL. Licenses for PTZ Controllers and IP speakers shall not be considered in VMS licenses

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
151	Secutech Automation (India) Pvt. Ltd.	Vol 2 - Page No. 131	SECTION 4 SCHEDULE OF RATES Sr NO 42	SITC of Video Management Software as per specifications. The quoted rate shall include all accessories and labour charges etc. and as directed by consultant/EIC. -270 nos	<p>We are reviewing the E-SRPMS scope outlined in sections 3.37 on pages 90-91, specifically regarding the clause for "3.37.1 Core System." It states that legacy devices (approximately 400 cameras) shall be connected via standard protocols and will not consume any licenses.</p> <p>From this clause, we understand that we do not need to consider any Video Management Software (VMS) for these legacy devices, and that they will not incur any VMS licensing costs. Could you please confirm whether our understanding is correct? If not, we would appreciate your clarification on this matter.</p>	Your understanding is correct.
152	Secutech Automation (India) Pvt. Ltd.	Vol 2 - Page No. 131	SECTION 4 SCHEDULE OF RATES Sr NO 44	SITC of Enterprise Security Resource Planning & Management Software - Licenses as per specifications. The quoted rate shall include all accessories and labor charges etc. and as directed by consultant/EIC. 1059 NOs	<p>We kindly request a detailed breakdown of how the quantity of ESRPMS 1059 License was determined and considered. Providing this information will ensure clarity for all bidders and facilitate a better understanding of the requirements.</p>	It is a summation of all the edge & control room elements in the project
153	Secutech Automation (India) Pvt. Ltd.	Vol 2 - Pg. no. 16	2.3. Architecture	2 control rooms – the PCR and the SCR, each with N +1 redundancy.	<p>Kindly provide Room size layout of 2 Control rooms , PCR , SCR , data centers. Also provide us system Architecture of shared requirement with distance and existing available connectivity between them this will help all bidder to understand the project requirement and existing available infrastrucre, rooms to utilize the same</p>	The layout shall be provided to the selected bidder.

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
154	Secutech Automation (India) Pvt. Ltd.	Vol 2 - Pg. no. 127	3.63. Wireless Access Points	General : Pole/tower requirement for 3.63. Wireless Access Points	<p>We would like to clarify our understanding regarding the wireless connectivity setup. We believe that the necessary line of sight for wireless connectivity is in place. Additionally, since there is no Bill of Quantities (BOQ) line item for new poles or tower masts, we assume that these are not required.</p> <p>Therefore, we intend to install the wireless access points on the existing tower masts, poles, or structures and MRPL will provide required access and permission for the same.</p> <p>If the bidder needs to supply a new pole or tower mast for the wireless connectivity, Kindly provide the specifications of the required pole or tower mast for the same.</p> <p>This information will be essential for ensuring proper installation and connectivity.</p> <p>Could you please confirm and clarify on this.</p>	The wireless access points shall be mounted on existing high structures. Line of sight is available with current structures.
155	Secutech Automation (India) Pvt. Ltd.	Vol 2 - Pg. no. 127	3.63. Wireless Access Points	Channelization : 20MHz, 40MHz, and/or 80MHz	<p>We kindly request you amend this specification to read as: "Channelization : 5/10/20/40/80 MHz user configurable "</p> <p>We believe this change will allow for a more competitive participation and provide access to a wider range of suitable alternatives.</p>	Channelization: 5/10/20/40/80 MHz user configurable is acceptable

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
156	Secutech Automation (India) Pvt. Ltd.	Vol 2 - Pg. no. 127	3.63. Wireless Access Points	Lock Options : Pad-Eye for locking devices	<p>We would like to bring to your attention that the wireless radio specifications outlined in the bid are specific to a particular one OEM that has classified this product as end-of-life and not available anymore in the market. So we kindly request the removal "Lock Options: Pad Eye for locking devices".</p> <p>We believe this adjustment will allow for a more competitive participation and provide access to a wider range of suitable alternatives.</p>	Lock Options: Pad-Eye for locking devices can be considered optional. Other lock options shall be acceptable.
157	Secutech Automation (India) Pvt. Ltd.	Vol 2 - Pg. no. 127	3.63. Wireless Access Points	Antenna : 14 dBi internal directional antenna 30 degree 3dB beamwidth Two external N-Type antenna connectors	<p>We would like to draw your attention to the wireless radio specifications outlined in the bid. These specifications are specific to a particular OEM that has classified this product as end-of-life, making it unavailable for procurement.</p> <p>To ensure fair participation in the bidding process, we kindly request that you amend this specification to read: "Suitable antenna (internal/external) to meet the project requirement for connectivity at distance 2.6 km/1.6 mi."</p> <p>We believe this change will allow for a broader range of options and promote a more competitive bidding environment.</p>	Antenna: "Suitable antenna (internal/external) to meet the project requirement for connectivity at distance 2.6 km/1.6 mi."

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
158	Secutech Automation (India) Pvt. Ltd.	Vol 2 - Pg. no. 127	3.63. Wireless Access Points	Addition	<p>We would like to request the addition of the following specification for the wireless radio in the bid: "WPC Approved: The system must be approved by the Wireless Planning and Coordination (WPC) and an ETA must be submitted with the bid."</p> <p>Having WPC approval ensures that the wireless system complies with national regulations and standards, thereby guaranteeing its reliability and performance. Including this requirement will help maintain quality and safety, as well as streamline the approval process for the chosen solution.</p>	Tender terms shall prevail
159	Secutech Automation (India) Pvt. Ltd.	Vol 2 - Pg. no. 77	3.32 Server stack	Latest Intel x86 Xeon Processor with Single CPU with min base frequency of 2.4 Ghz per CPU with minimum of 32 Cores per CPU. Rack Server 32 Core with at least 64 GB RAM .	<p>We request you kindly amend as "Latest AMD / Intel x86 Xeon Processor with Single CPU with min base frequency of 2.4 Ghz per CPU with minimum of 32 Cores per CPU. Rack Server 32 Core with at least 64 GB RAM ."</p>	Tender terms shall prevail
160	Secutech Automation (India) Pvt. Ltd.	Vol 2 - Pg. no. 77	3.32 Server stack	3. HDD : NVMe/SSD 1TB Usable with RAID & shall be scalable.	<p>We request you kindly amend this as " 3. HDD : NVMe/SSD/SATA SSD 1TB Usable with RAID & shall be scalable."</p> <p>Please also clarify Which Raid Level we need to consider</p>	Tender terms shall prevail. RAID level support is mentioned in the specifications.

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
161	Secutech Automation (India) Pvt. Ltd.	Vol 2 - Pg. no. 77	3.32 Server stack	7 External Interface : 3 USB Ports, 2 VGA, Serial Port, ODD, USB Keyboard, Mouse, Monitor, Min. 2 16 GBPS FC ports	We request you kindly amend this clause as " 7 External Interface : 3 USB Ports, 1 VGA, Serial Port , ODD, USB Keyboard, Mouse, Monitor, Min. 2 16 GBPS FC ports " as these days the latest Servers doesn't come up with 2VGA and Serial Ports interface	Tender terms shall prevail
162	Secutech Automation (India) Pvt. Ltd.	Vol 2 - Pg. no. 77	3.32 Server stack	All OS licenses and anti-virus licenses shall be included in the server stack.	Kindly clarify which OS version we need to consider	All Server OS licenses required in the project for the solution proposed by the bidder shall be included in the server stack
163	Secutech Automation (India) Pvt. Ltd.	Vol 2 - Pg. no. 32	2.8.17 Integration	During the period of the project, the selected system integrator shall be required to integrate the cameras / software with the overall MRPL ISMS and ISMS 2 projects	<p>Requesting you to please update the following are as follows:</p> <p>1) We understand that the existing Camera and ACS Licenses will remain at legacy respective application and only alarms need to be integrated. Please confirm.</p> <p>2) What are the types & no. of Analytics are running from the existing project, is it Edge base or software base?</p> <p>3) What about the existing system troubleshooting/rewiring/field of view adjusting/Reconfiguring and etc.</p> <p>4) Please provide existing ISMS Software name, System providers name with contact details.</p> <p>5) What if, when the existing OEM denies to do give support for integration and later they</p>	Existing ISMS and ISMS 2 cameras shall be integrated for viewing at a single location. This integration shall not consume additional VMS licenses.

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
					demands additional charges for sharing API/SDK..	
164	Secutech Automation (India) Pvt. Ltd.	Vol 2 - Pg. no. 42	2.8.18 Software	The bidder shall consider 100% concurrency of the estimated number of users by the bidders. (The total number of users in the PCR & SCR should be considered as 100)	<p>1) Each user license has cost and 100 users will impact a huge client license cost and no where such line item has been considered.</p> <p>2) Also to run 100% concurrent would need to setup more servers with load balancer that also would be huge cost impact.</p> <p>Requesting you to please clarify the exact number of concurrent user.</p>	Tender terms shall prevail

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
165	Secutech Automation (India) Pvt. Ltd.	Vol 2 - Pg. no. 42	2.8.18 Software	The application shall provide the ability to send alerts and notifications in the form of SMS, email, WhatsApp or any other social media channel.	<p>We understand that we need to consider notification with SMS, EMAIL & WhatsApp. However to integrate with such platform depends has some dependency are as follows:</p> <p>1) Notification integration with respective mode of platform (SMS, EMAIL, WhatsApp) requires an internet connection for sending a notification to a user or visitors.</p> <p>2) SMS is mainly used in Visitor Management software for OTP and also sending SMS alerts to a respective manager in any emergency. Without knowing maximum visitor count in a day and maximum emergency alerts count in a day is difficult to considered SMS package cost.</p> <p>3) Also the Email notification requires public domain, dns updates and SSL email certificates would cost additional.</p> <p>Please clarify whether the required SMS package and Internet bandwidth (including MPLS, leased line, and broadband) recurring costs fall under the MRPL scope or the bidder's scope?</p> <p>Your clarification on this matter would be greatly appreciated, as it will help ensure clarity for all bidders.</p>	<p>Any internet connection that is required for integration purposes shall be provided by MRPL once the connection parameters are known.</p> <p>The recurring costs for SMS / WhatsApp integration shall be borne by the bidder.</p>

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
166	Secutech Automation (India) Pvt. Ltd.	General			<p>As we understand that the finger enrollment has considered for contractors but what about the face enrollment reader. Face Registration is going to happen at the installed swing barrier side or it is going done at every operators desk (Main Gate, Jokatte Gate and etc.) If it is to be done at each operator workstation side then the additional face enrollment device also need to be considered by bidder and this will add additional to the bidder. Please add such BOQ line item. (Or)</p> <p>Same Face Reader device is going to be used for registration purpose also. Please confirm.</p>	Most of the enrolment (face recognition reader) is going to happen through a different project. In case enrolment reader is required in this project, additional quantity shall be purchased by MRPL
167	Secutech Automation (India) Pvt. Ltd.	General	NA	Enrolment Unit	As confirmed in the prebid meeting regarding the face enrolment devices that the MRPL has already considered the same.	Correct
168	Secutech Automation (India) Pvt. Ltd.	Vol 2 - Pg. no. 20	2.4.9 Access Control System & Visitor Management	The ACS will be integrated with the fire detection system, for automated fail-safe deployments of all barriers, in case of fire alarms.	We understand that we need to do a integrate with fire detection however the existing fire alarm vender need to have control module or relay module. Please confirm, also will support for the integration as well.	The control module / relay module shall be available.

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
169	Secutech Automation (India) Pvt. Ltd.	Vol 2 - Pg. no. 20-21	2.4.10 Control Rooms	2 state of the art control rooms are proposed to provide complete situational awareness with adequate redundancy. Both the control rooms will act as primary & secondary control rooms – in the sense each will have the capability of taking over in case the other control room is compromised	<p>As we understand from the prebid meeting that the proposed control room has space constraint and it is going setup with two storey in same building for DC with DG & UPS setup on the ground floor and videowall monitor setup on the first floor. And the Both DC server setup also has decided to be resided in the same single DC room for time bin.</p> <p>Please note that till the time the DC is not separated, and any power problem happens in one single DC then HA between DC-DC will be compromised.</p>	Correct
170	Secutech Automation (India) Pvt. Ltd.	Vol 2 - Pg. no. 21	2.4.12 Salient Features	The proposed solution should allow MRPL to locally and centrally monitor its facilities from a remote location securely on a Portable/Fixed personal computer monitor using IPbased Cameras in a bandwidth efficient manner. The solution should also enable viewing of camera feeds on smart phones. The system shall be highly secure.	<p>Requesting you to kindly provide Mobile user count for considering the license. If camera feeds to view on smart phone then please specify whether it will view on intranet or internet.</p> <p>If need to view on internet then mobile server requires internet connnetion with adequate bandwidth.</p> <p>So, requesting you to kindly clarify below mention things.</p> <p>1) No of mobile users and concurrent users is going to use.</p> <p>2) Internet Connection under MRPL scope or SI Scope.</p>	The number of mobile users shall be considered as 25.
171	Secutech Automation (India) Pvt. Ltd.	Vol 2 - Pg. no. 16	2.3. Architecture		As we understand that the interagtion of X-ray baggage scanner is only for alerts with Enterprise Security Resource	The ESPRMS software shall be integrated with the X-ray baggage scanners (in the scope of Package D) for

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
					Plannin & Management Software. Please confirm.	viewing of live scanning images.
172	Secutech Automation (India) Pvt. Ltd.	Vol 2 - Pg. no. 16	2.3. Architecture		As we understand that the integration of DFMD's is for only when any metal threshold crossed and recording playback with pre-post recording from the Enterprise Security Resource Plannin & Management Software. Please confirm	Correct.
173	Secutech Automation (India) Pvt. Ltd.	Vol 2 - Pg. no. 16	2.3. Architecture		As we understand that the integration of the UVSS system is for blacklist vehicle's detects and video playback of such alerts from Enterprise Security Resource Plannin & Management Software. Please confirm	Correct. Also, real time viewing of the images shall be possible.
174	Secutech Automation (India) Pvt. Ltd.	Vol 1 - Pg. no. 446	Schedule of Rates	19. SITC of Accessibility Swing Barriers (Wide Lane) as per specifications. The quoted rate shall include all accessories and labour charges etc. and as directed by consultant/EIC.	Accessibility Swing Barriers will have both side Face Reader + QR. Please confirm.	Correct
175	Secutech Automation (India) Pvt. Ltd.	Vol 1 - Pg. no. 447	Schedule of Rates	21. SITC of Motorised Boom Barrier having boom length (passage clearance) upto 6 Meter, 24V Brushless DC Motor drive/ servo drive as per specifications. The quoted rate shall include all accessories and labour charges etc. and as directed by consultant/EIC.	We assumed that required no. of access controller count for long range RFID reader has been considered in the access controller sr. no. 16. So we need not to consider additional access controllers for the boom barrier. Please confirm.	The long range reader should be considered with in-built controller.
176	Secutech Automation (India) Pvt. Ltd.	Vol 1 - Pg. no. 447	Schedule of Rates	26. SITC of EM Locks as per specifications. The quoted rate shall include all accessories and labour charges etc. and as directed by consultant/EIC.	Please confirm the EM Lock combination with IN/OUT Smart Reader (or) IN - Smart Reader / Out - Exit Button.	IN-smart card reader - OUT - exit push button. The cost for push button alongwith wiring should be considered in the cost of the EM Lock.

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
177	Secutech Automation (India) Pvt. Ltd.	Vol 2 pg no 18	2.4.3 connectivity	The IP system should ensure highly secure and ready video access from virtually anywhere on MRPL Security Network. Authorized personnel (within his individual user rights, specific to individual) should be able to rapidly zero in on video / images of specific locations, people, and events, anytime and anywhere, without reviewing countless hours of video recordings.	Does this clause calls for forensic software where the recorded data can be serached based on pre defined attributes to reduce the search time .	Yes
178	Secutech Automation (India) Pvt. Ltd.	Vol 2 - pg 41	2.8.18 Integration	The source code of application (in case proposed application is open source) / customization (in case proposed application is proprietary) shall be owned by MRPL. The database shall be completely owned by MRPL	Source code submission shall not be feasible for global brands and this could be a major challenge in participation.kindly relax this clause	Tender terms shall prevail
179	Secutech Automation (India) Pvt. Ltd.	Vol2- Pag	2.8.18	Integration	<p>We understand that E-SRPMS will integrated with existing Legacy System such as SAP, Visitor Management, Access Control , Legacy Cameras via API which will be shared by the Customer. It is also understood that the technical support (if required) after sharing the API will be also provided by the existing vendors of individual systems.Please let us know whether our understanding is Correct.</p> <p>We need details like Make of Visitor Management, Biometric Access Control Software,Legacy Cameras Software.</p>	Details that can be shared are provided in the tender document and the present response to the queries. Additional details shall be shared with the successful bidder.

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
180	Secutech Automation (India) Pvt. Ltd.	Vol2-Pag	2.4.2 & 2.4.4	Video Surveillance System & Video Management System	We understand that the Video Management System will Horizontally Integrate Seamlessly with ACS, Video Analytics & Other Sensors and Vertically Seamlessly Integrate with Single and Unified Platform E-SRPMS system. Please let us know whether our Understanding is correct	Correct
181	Secutech Automation (India) Pvt. Ltd.	Vol2-Pag	2.4.9	Access Control System	We understand that the Existing Access Control Application needs to be seamlessly integrated with ESRPMS for Enrollment, Configuration, Monitoring, Alarm and Reports . Please let us know whether our understanding is correct	Correct
182	Oryggitech	445	Sr no 11, 14, 15		In the schedule of rates make and model of access control reader and controller are mentioned. Request to consider other brands also, to have larger bidder participation.	Tender terms shall prevail
183	Extreme Networks	73 to 74	3.29.	8-Port Industrial Switch	Kindly consider 4 X1 OFC links for uplink as the minimum to create sub-rings and extend range	Tender terms shall prevail
184	Extreme Networks	73 to 74	3.29	8-Port Industrial Switch-L3 Features	Kindly consider removing RIP v1&v2 since rings are formed with L2 protocols and routing protocols are required in distribution and core	Tender terms shall prevail
185	Extreme Networks	73 to 77	3.29/3.30/3.31	L3 Features	Kindly consider REP and ERPS ITU G.8032 as an equivalent protocol with convergence time between 50 to 200 ms for more vendor participation and addressing dual-ring, split-brain	Tender terms shall prevail

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
					and super-loop problems in ring architecture.	
186	Extreme Networks	73 to 77	3.29/3.30/3.31	SFP	Kindly consider removing 100BX(Bi-directional) optics as the rings are terminated at distribution or core and can be substituted with 1000BX optics	Tender terms shall prevail
187	Neuralindia	446 OF 504	Schedule Rates	SITC of Face recognitions readers / Portable face readers (installation in buses) Make - Virdi UBio X Face Pro + GPRS / 4G Module as per specifications. The quoted rate shall include all accessories and labour charges etc. and as directed by consultant/EIC	Make: Virdi with Model Number is mentioned, we recommended to consider other makes or you can Mentioned as Supply FR/Portable reader should be compatible with present Software (confirm the make of present Software)	Tender terms shall prevail
188	Neuralindia	447 of 504		20 . SITC of Rising Bollards, Single hydraulic Bollard; static subsurface mounting tube and impact tube construction; supporting framework constructed from full welded, high strength, structural steel completely encased with steel sheets to provide a self shuttered module; IP68; K-12 rated; Speed of Operation <6s; Performance-30T with Impact absorption 1852K single/double. as per specifications. The quoted rate shall include all accessories and labour charges etc. and as directed by consultant/EIC.= Price consider is 925000.00	No Details specification is mentioned and Bollards with K12 is expensive and we recommended to mention the Locig control board and internal items should not be with land border sharing with India (Documents should be provided for verification) and All the physical security should have TCP/IP connectivity and integrated for real time monitoring in third party application via network connection. We Recommended to mention height as 900mm Can we offer K4 Bollards	Please see Corrigendum 1

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
189	Neuralindia			18 SITC of Bidirectional waist-high two-swing door barriers; 304 SS Construction with transparent polycarbonate doors; integrated drive/controller; 650mm Passage Width; Sensors to detect tailgating/piggybacking; trolley bag detection; Definable Fail Safe/ Fail Secure Operation; Silent Operation as per specifications. The quoted rate shall include all accessories and labour charges etc. and as directed by consultant/EIC	we recommended to mention the Logic control board and internal items should not be with land border sharing with India (Documents should be provided for verification) and All the physical security should have TCP/IP connectivity and integrated for real time monitoring in third party application via network connection.	Tender terms shall prevail
190	Neuralindia			28. SITC of Tyre Killer (Automatic), Active 2-way spikes as per specifications. The quoted rate shall include all accessories and labour charges etc. and as directed by consultant/EIC.	No Details specification is mentioned	Specifications are available in Volume 2 of the tender document
191	Neuralindia			29 SITC of Tyre Killer (Automatic), Active 2-way spikes as per specifications. The quoted rate shall include all accessories and labour charges etc. and as directed by consultant/EIC.	No Details specification is mentioned	Specifications are available in Volume 2 of the tender document
192	Robstur				1. Standard lane passage 650mm passage asked : Can we provide 600mm passage as its standard passage.	Tender terms shall prevail
193	Robstur				2. Total Qty 19 lane : what is the configuration of swing lane barriers in Sets. How many standard lanes and wider lanes	Please see Corrigendum 1

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
194	HPE		3.33 Video Storage System (SAN)	External Storage- FC SAN with required storage to record all the cameras as per the parameters mentioned in the tender document & management software. The storage shall have the usable storage capacity calculated by the bidder + 20% spare space, using RAID 5. The minimum usable storage capacity shall be 2100 TB. Calculations shall be submitted as part of detail engineering. To be ONVIF Compliant.	FC SAN solution with required storage capacity to record all the cameras as per the parameters mentioned in the tender document & management software. The storage shall have the usable storage capacity calculated by the bidder + 5% spare space, using RAID 6 or better. The minimum usable storage capacity shall be 2100 TB. Calculations shall be submitted as part of detail engineering. To be ONVIF Compliant.	Please see Corrigendum 1. RAID 5 / RAID 6 is acceptable.
195	HPE		3.33 Video Storage System (SAN)	Cache- The system should have a minimum of 4 GB per controller Cache. It should be possible to use SSD drives as an extension to cache	The system should have a minimum of 12 GB per controller Cache. It should be possible to use minimum 8TB SSD drives as an extension to cache.	Please see Corrigendum 1
196	HPE		3.33 Video Storage System (SAN)	Disk Support- SAS - 15K RPM SAS - 10K RPM NL-SAS 7200 RPM, SSD drives The Storage should support Disk Expansion trays/enclosures to accommodate 3.5" and 2.5" disks. Hard disks for minimum 20 % storage capacity should be SAS-15 K/SAS 10-K	SAS - 15K RPM SAS - 10K RPM NL-SAS 7200 RPM, SSD drives The Storage should support Disk Expansion trays/enclosures to accommodate 3.5" and 2.5" disks. Disks for minimum 5 % storage capacity should be SSD.	Tender terms shall prevail
197	HPE		3.33 Video Storage System (SAN)	Data Protection and Data Security- Shall have data protection features and data encryption features.	Shall support data protection features and data encryption features.	Functionality of data protection features and data encryption features can be provided through an OEM solution
198	NA	Vol 2 - Page No. 461	SECTION 4 SCHEDULE OF RATES Sr NO 107	Supply, fabrication, fixing in positions with suitable angle iron supports GI perforated cable trays bolted type and fabricated using minimum 14 gauge CRCA sheet and maximum width of 000 mm & height of 50 mm . Further the rate shall also include supporting of these trays from	Tray size	Supply, fabrication, fixing in positions with suitable angle iron supports GI perforated cable trays bolted type and fabricated using minimum 14

S.N	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
				ceiling/ground using minimum 10mm fully threaded GI Rods/MS angles painted using 2 coats of red oxide and 2 coats of primer, all complete as required and as per final directions and final approval of the Consultant/MRPL.		gauge CRCA sheet and maximum width of 300 mm & height of 50 mm. Further the rate shall also include supporting of these trays from ceiling/ground using minimum 10mm fully threaded GI Rods/MS angles painted using 2 coats of red oxide and 2 coats of primer, all complete as required and as per final directions and final approval of the Consultant/MRPL.
199	NA	Vol 2 - Page No. 476	SECTION 4 SCHEDULE OF RATES Sr NO 166	Supply, fabrication, fixing in positions with suitable angle iron supports GI perforated cable trays bolted type and fabricated using minimum 14 gauge CRCA sheet and maximum width of 000 mm & height of 50 mm. Further the rate shall also include supporting of these trays from ceiling/ground using minimum 10mm fully threaded GI Rods/MS angles painted using 2 coats of red oxide and 2 coats of primer, all complete as required and as per final directions and final approval of the Consultant/MRPL.	Tray size	Supply, fabrication, fixing in positions with suitable angle iron supports GI perforated cable trays bolted type and fabricated using minimum 14 gauge CRCA sheet and maximum width of 300 mm & height of 50 mm. Further the rate shall also include supporting of these trays from ceiling/ground using minimum 10mm fully threaded GI Rods/MS angles painted using 2 coats of red oxide and 2 coats of primer, all complete as required and as per final directions and final approval of the Consultant/MRPL.

Annexure 2 – Response to Commercial Queries

SL.NO	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
1	Secutech Automation (India) Pvt. Ltd.	Vol 1 - Pg no 13	3 Relaxation to MSE / Start up bidder , Sub clause 5.1.4	In case referred Project falls under "No Tax Area" (like SEZ), Bidder can submit certificate from their Statutory Auditor to above effect in place of Tax paid invoice.	Is this SEZ Area .kindly confirm	The present scope / location of work for MRPL does not fall under SEZ area
2	Secutech Automation (India) Pvt. Ltd.	Vol 1 pg no 364	1 Payment terms clause no 11	It may be noted that the quantities mentioned in the BOQ/SOR are tentative, the quantities of individual item may vary to any extent based on the site condition which has to be executed by contractor at same rate in order to complete the job in all respect and no additional compensation will be paid for the same	We understand that , since the BOQ/SOR is tentative, the variation amount as per additional items consumed shall be payable at unit rate	Correct
3	Secutech Automation (India) Pvt. Ltd.	Vol 1 Pg no 426		Standard Operating Procedure for Social Distancing at MRPL	As per our latest knowledge , there are no present COVID 19 guidelines enforced by Government of India . Kindly relax this clause . Necessary measures shall be followed , however documenting the same shall add on to extra efforts and cost	Tender terms shall prevail
4	Secutech Automation (India) Pvt. Ltd.	Vol 1 - Pg no 363	1 Payment terms	For Opex (CAMC) o The entire Opex amount shall be divided into 16 equal quarterly instalments o The equal quarterly instalments shall be paid against submission of quarterly invoice and respective SLA calculations.	OPEX payment shall be done at start of quarter or at end of the quarter	Please refer Corrigendum 1
5	Oryggitech	Pg No. 11	Bid-Qualification Criteria (BQC):	Three Similar completed works, each costing not less than Rs. 1322.00 lakhs	Request to consider 9 crores three similar projects	Tender terms shall prevail

SL.NO	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
6	Oryggitech				Technical specification – volume 2 is not available in the tender document. Please clarify and share the same. Without technical specification it is not possible to prepare queries. So request MRPL to extend the pre-bid queries submission date and pre-bid meeting.	Please view the tender on the site www.tenderwizard.com/MRPL
7	Neuralindia	11 of 504	Bid Qualification Criteria (BQC) Commercial criteria	Three Similar completed works, each costing not less than Rs. 1322.00 lakhs OR Two Similar completed works, each costing not less than Rs. 1763.00 lakhs OR One Similar completed works, costing not less than Rs. 2645.00 lakhs	The BQC consider is almost >50%- 1 orders, 34%- 2 Order and 26% -3 Order which is V high. We recommended MRPL to consider Three Similar completed works, each costing not less than Rs. 1000.00 lakhs OR Two Similar completed works, each costing not less than Rs. 1350.00 lakhs OR One Similar completed works, costing not less than Rs. 2000.00 lakhs Note: Request to consider annual Price inflation rates at 15%- 18% per year for the order / job executed by a bidder during the last 04-05 years ending last day of the month previous to the one in which this tender is invited.	Tender terms shall prevail

SL.NO	BIDDER NAME	PAGE NO.	CLAUSE NO.	SUBJECT	BIDDER'S QUERY	OWNER'S REPLY
8	Neuralindia		Bid Qualification Criteria (BQC) Commercial criteria	Similar Work is defined as - the Bidder should have successfully executed Supply, Installation, Testing & Commissioning of an Integrated Security Technology System through a single project, which shall include any four (04) of the following components:	<p>We recommended MRPL to consider Similar work is defined as the bidder should have successfully implemented SITC of CCTV and Physical security (Bollards, Boom Barrier, Swing barrier, Tyre Killer and CCTV) at least one projects in India (in Oil, Gas & Petrochemicals / Chemicals / Fertilizers) within the past five years ending the last date of the month previous to the publication of the tender.</p> <p>With such industry specific experience, it may help you select the best bidder and product.</p>	Tender terms shall prevail
9	Neuralindia	363 Of 504	TERMS OF PAYMENTS [ANNEXURE - III TO SPECIAL CONDITIONS OF CONTRACT] PAYMENT TERMS FOR CONTRACTS ON ITEM RATE BASIS	<p>1.0 PAYMENTS The following are the payment terms for the project:</p> <p>- For Capex 50 % against supply of items with TPI 20 % against installation of the items 10 % against commissioning of the entire system 20 % against UAT, system documentation and handover</p>	<p>We recommended MRPL to consider:</p> <p>Payment Terms: For Capex 75 % against supply of items with TPI 15 % against installation of the items 5 % against commissioning of the entire system 5 % against UAT, system documentation and handover</p>	Please refer Corrigendum 1