



**OIL INDIA LIMITED**  
**(A Govt. of India Enterprise)**  
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**DIBRUGARH**  
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**CORRIGENDUM NO. 4 DATED 11.10.2023**

to

**BID NO. GEM/2023/B/3884152 DATED: 28.08.2023**

for

**Hiring of service for Supply, Installation and Commissioning of CCTV Surveillance System with Comprehensive Annual Maintenance consisting of Explosion Proof Cameras for outdoor & hazardous environment of Oil & Gas Sector for live viewing and recording.**

1.0 This Corrigendum is issued to notify the bidder(s) regarding the Pre Bid Conference held on 12.09.2023:

**Date of Pre-Bid: 12.09.2023**

**Mode: Online Mode over Video Conference**

**List of prospective bidders who attended the Pre-Bid Meeting**

<b>Sl. No.</b>	<b>Name of Firm/Organisation attended</b>
1.	M/s. Honeywell
2.	M/s. Vicom Security Private Limited.
3.	M/s. Vihawk Tech Solutions
4.	M/s. Winfo Solutions

OIL's response to the queries forwarded by the interested bidders is enclosed in **ANNEXURE-I**.

**2.0 Bid Closing Date (BCD) / Bid Opening Date (BoD) has been extended upto 25.10.2023, 14:00 PM (IST).**

Necessary changes w.r.t Pre Qualification criteria in the tender shall be published shortly.

All others terms and conditions of the Bid Document remain unchanged.

**SR. OFFICER- CONTRACTS (S)**

• **Clarifications against queries of M/s. Honeywell.**

<b>Tender Page No.</b>	<b>PART/VOL.</b>	<b>Specification</b>	<b>Relevant Content/ Section Reference from Tender</b>	<b>Bidder's Query</b>	<b>OIL's reply</b>
Appendix to SOW /Pg. No. 1 of 10	Technical Specification	4MP Fixed FLP Camera with Motorized Lens	A.1.5/ Minimum Illumination: Color Mode: 0.005 Lux	As per our experience, the process areas like pumping shed/Gantry are well illuminated and with very low light sensitivity on the camera, there is no need to have IR illuminator, if at all required for specific area where light level is too low (no surrounding light), separate external IR illuminators may be permitted .	Pl. refer corrigendum
			B/W: 0 lux (IR On)		
Appendix to SOW /Pg. No. 1 of 10	Technical Specification	4MP Fixed FLP Camera with Motorized Lens	A1.6/ Video Compression: H.265+ , H.264+	H.265/High Efficiency Video Coding (HEVC) is the successor codec to H.264. There is no industry standard for H.264+ and H.265+ video compression. Some Chinese OEMs developed the algorithm on H.265, H.264 and named it H.265+/H.264+ which is similar to the smart codec feature available with other OEMs to reduce bandwidth and storage. So we request the tenderer to remove H.265+ and H.264+ from the specification.	Pl. refer corrigendum
Appendix to SOW /Pg. No. 1 of 10	Technical Specification	4MP Fixed FLP Camera with Motorized Lens	A1.6/ Lens: 2.8 mm to 12 mm lens	We would like to inform you that the lens focal length given in the specification is not generally available in explosion proof fixed cameras with major OEMs which restricts the bidders/OEMs from participating in this tender. For healthy competition, we request the tenderer to modify the focal length from 5.3mm to 106mm. Similarly, you can ask about integrated wiper functionality which is readily available.	Pl. refer corrigendum
Appendix to SOW /Pg. No. 1 of 10	Technical Specification	4MP Fixed FLP Camera with Motorized Lens	A1.1.13/ FTP, DDNS	Please note that FTP and DDNS are not secure protocols; these protocols are disabled by CCTV OEMs to eliminate hijacking risk via vulnerable legacy protocols. We assure that the functional requirement of video streaming, storage and edge recording will not be affected due to non-availability of this feature. Hence, we request the tenderer to remove or make optional these protocols.	Pl. refer corrigendum
Appendix to SOW /Pg. No. 1 of 10	Technical Specification	A.1) 4MP Fixed FLP Camera with Motorized Lens	A1.16/ Hazardous Certifications: ATEX/ IECEx for Gas Group IIA & IIB	We request the tenderer to please add the requirement of PESO/CCOE certificate for 4MP FLP camera, it is mandatory to use the camera in hazardous area as per Petroleum Rules 2002. PESO approves the cameras for Zone 1 gas groups IIA, IIB, IIC.	Pl. refer corrigendum
				Also please add the below clause in the tender on requirement of CCOE/PESO certification.	
				“Listed CCTV OEMs on CCOE/PESO certificate shall not be acceptable countries sharing land board with India until unless specifically allowed by the Government of India and is registered with the Competent Authority of Government of India”	Pl. refer corrigendum

# ANNEXURE-I to Corrigendum No. 4

Appendix to Sow / Pg. No. 2 of 10	Technical Specification	A.2) 16 Channel NVR	A.2.5 Video Compression: H.265+, H.264+	H.265/High Efficiency Video Coding (HEVC) is the successor codec to H.264. There is no industry standard for H.264+ and H.265+ video compression. Some Chinese OEMs developed the algorithm on H.265, H.264 and named it H.265+/H.264+ which is similar to the smart codec feature available with other OEMs to reduce bandwidth and storage. So we request the tenderer to remove H.265+ and H.264+ from the specification	Pl. refer corrigendum
Appendix to Sow / Pg. No. 2 of 10	Technical Specification	A.2) 16 Channel NVR	A.2.13 Alarm I/O 16 ch input , 8 ch output	We would like to inform you that the 8 ch alarm output given in the specification is not generally available in network video recorder with major OEMs which restricts the bidders/OEMs from participating in this tender. For healthy competition, we request the tenderer to modify it with 4 ch alarm outputs.	Pl. refer corrigendum
		4MP Fixed FLP Camera with Motorized Lens	Add-on Clause on Genuine Video Compression	CCTV OEMs have appropriate HEVC license for using genuine H.265 compression which can be verified by user/customer from the link below. <a href="https://accessadvance.com/hevc-advance-patent-pool-licensees/">https://accessadvance.com/hevc-advance-patent-pool-licensees/</a>	Pl. refer tender clauses & subsequent corrigendum only.
				Therefore, you are requested to include clause for camera OEM on official HEVC licensee to use genuine H.265 compression.	
				Also, we request the tenderer to add below clause in the tender with respect to the land boarder sharing	Pl. refer corrigendum
				“Listed CCTV OEMs for HEVC shall not be acceptable countries sharing land board with India until unless specifically allowed by the Government of India and is registered with the Competent Authority of Government of India”	
		4MP Fixed FLP Camera with Motorized Lens	Add-on clause on Cyber Security Compliance	For cyber security in IP Cameras, we request the tenderer to add the clause on NDAA (National defense authorization act section 889- not using Huawei's Hi-Silicon chip based SoC) Compliance / ISA-62443-4-1 Cyber Security Certificate/ UL Cyber Security Certification / TPM (Trusted Platform Module) in cameras. In case the CCTV OEMs do not have these compliance /certificates, they can alternatively submit security Audit Certificate issued from Indian Government body (STQC or CERT-In empaneled Organization) under MEITY for mitigating cyber security risk.	Pl. refer tender clauses & subsequent corrigendum only.

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• **M/s. VICOM SECURITY PRIVATE LIMITED.**

Sl. No.	Query			OIL's reply	
1	Whether any Underground Cable Laying or Cable Laying thru' Road Cutting in Scope?			Road Crossing Pipes will be provided by OIL. Bidder has to carry out necessary pipe & cable laying.	
2	There is a total 11 KM Cable in scope & there is 2.5KM of Cable Tray. What is the Mode of balance Cable Laying? Shall it be done through existing Structure or through Wall?			HDPE Pipes of length 1000 meter per site is considered in the BOQ for cable laying through existing structure.	
3	During CAMC, does any Man-power need to be deputed permanently at Site or is it on quarterly basis?			Manpower needs to be deputed as and when required to complete the job within the timeline as mentioned in the SOW.	
Sl. No.	Reference Section- Appendix to SOW: Technical Specifications	Technical Specifications page no	Parameter & Specification	Pre-bid queries & Suggestion	OIL's reply
1	A.1) 4MP Fixed FLP Camera with motorized Lens	Page no-1	A.1) 4MP Fixed FLP Camera with motorized Lens	Request to change camera resolution 4MP to 2MP, as all reputed OEMs have only 2MP FLP Fixed camera, except few Chinese OEM.	No change.
2	A.1) 4MP Fixed FLP Camera with motorized Lens	Page no-1	A.1.2. Max. Resolution: 2688x 1520	Request to change camera resolution to 1920x1080.	No change.
3	A.1) 4MP Fixed FLP Camera with motorized Lens	Page no-1	A.1.6. Video Compression: H.265.H.264.H.265+.H.264+.MJPEG	Request to remove H.265+ and H.264+ compression which are specific to certain chinese OEM.	Pl. refer corrigendum.
4	A.1) 4MP Fixed FLP Camera with motorized Lens	Page no-1	A.1.8. Lens : 2.8 mm to 12 mm lens	We suggest to change the Lens options to 6~180mm with 30x optical zoom functionality which will help to cover long distance surveillance.	Pl. refer corrigendum.
5	A.1) 4MP Fixed FLP Camera with motorized Lens	Page no-1	A.1.17. Hazardous Certifications : ATEX/ IECEx for Gas GroupIIA & IIB	Request to include PESO certificate which is mandatory requirement for all oil and gas sector	Pl. refer corrigendum.
6	Appendix to SOW: Technical Specifications 8 Port Gigabit Ethernet managed switch	Page 20 Reference: A.10.4	Shall have an operating temperature of 0 C to 50 C	Kindly change the same to "Shall have an operating temperature of 0 degree C to 45 degree C"	Pl. refer corrigendum
7	A.2) 16 Channel NVR	Page no-2	A.2) 16 Channel NVR	Industrial grade NVR start from 32Channel with support of RAID 5. Hence request to change the NVR Channel 32.	Pl. refer corrigendum.
8	A.2) 16 Channel NVR	Page no-2	A.2.2. Storage: 2 SATA hard drives each support up to minimum of 10 TB per slot	as tender asked for RAID5 in serial no-A.2.3 and minimum requirement for RAID5 configuration is 4nos HDD. Request to change the HDD Slot minimum 8 HDD SATA port.	

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• **Clarifications against queries of M/s. Spectron Engineers Pvt Ltd**

Sl. No.	Document	Document / Point No. / Clause		Suggestion / Change Proposed	Remarks	OIL's reply
<b>1</b>	<b>SOQ</b>		Item no 10.1 to 10.17	Please confirm whether all material (including different types of cables / glands / accessories etc) needs to be dismantled, transported and Re-install or present BOQ covers material required for all rigs where reinstallation is required.		All materials supplied under the contract needs to be dismantled, transported & re-installed.
<b>2</b>	<b>PQC</b>		Point no 2.2 - Notes - a) "SIMILAR WORK" mentioned in Para 2.2, i) above means experience of "Supply, Installation and Commissioning of CCTV Surveillance System with Annual Maintenance consisting of minimum 20 (Twenty) Explosion Proof Cameras for outdoor & hazardous environment of any Oil & Gas Sector/E&P companies/ Drilling installations for live viewing and recording".	<p>"SIMILAR WORK" mentioned in Para 2.2, i) above means experience of "Supply, Installation and Commissioning of CCTV Surveillance System with Annual Maintenance consisting of minimum <del>20 (Twenty)</del> 10 (Ten) Explosion Proof Cameras for outdoor &amp; hazardous environment of any Oil &amp; Gas Sector/E&amp;P companies/ Drilling installations for live viewing and recording".</p> <p>Alternatively bidder having experience of Annual Maintenance of CCTV Surveillance System consisting of minimum 10 (Ten) Explosion Proof Cameras for outdoor &amp; hazardous environment of any Oil &amp; Gas Sector/E&amp;P companies/ Drilling installations for live viewing and recording" can also bid by submitting OEM experience of supply and commissioning of minimum 10 (Ten) explosion proof cameras for outdoor &amp; hazardous environment of any Oil &amp; Gas Sector/E&amp;P companies/ Drilling installations for live viewing and recording".</p>		Pl. refer corrigendum.
<b>3</b>	<b>SOW &amp; SCC</b>		SOW - 16.3 A) V)... For such dismantling service, Contractor will be paid 35% of the dismantling & shifting rate of complete CCTV system. SCC Section II - Part I ...A.4 For cluster drilling location (Item-30.5): for dismantling service, Contractor will be paid 50% of the dismantling & shifting rate of complete CCTV system.	Conflict in payment terms between SOW and SCC in regard with dismantling services		Payment Terms as per SOW.  Pl. refer corrigendum.

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<b>4</b>	<b>SOW &amp; SCC</b>		16.3 B) V) ....For such re-installation service, Contractor will be paid 35% of the re-installation rate of complete CCTV system. SCC SECTION II - Part I :A.5 For cluster drilling location (Item-30.6): for re-installation of CCTV system, Contractor will be paid 50% of the re-installation rate of complete CCTV system.	Conflict in payment terms between SOW and SCC in regard with re-installation services		Payment Terms as per SOW.  Pl. refer corrigendum.
<b>Appendix to SOW :</b>						
		<b>Parameters</b>	<b>Requirements</b>	<b>Change Suggestion</b>	<b>Remarks</b>	
<b>A.1.1</b>		Camera Type	Explosion-Proof Network Motorized Varifocal Bullet Camera			
<b>A.1.2</b>		Max. Resolution	2688×1520	Max. 2MP (1920 x 1080) resolution	Most OEM, manufacturing Explosion Proof cameras normally has range upto 2MP, thus request to change the parameterets from "2688x1520" to "1920x1080 or better".	No change
<b>A.1.5</b>		Min. illumination	Color mode: 0.005 lux, B/W mode: 0 lux (IR ON)	Color: 0.05Lux(F1.6, 1/30sec) BW: 0.005Lux(F1.6, 1/30sec), 0Lux(IR LED on)	Most OEM (from non land border countries) may not be able to comply with this requirement. thus request change the lux parameter at 0.05 or better	No change
<b>A.1.6</b>		Video Compression	H.265,H.264,H.265+, H.264+,MJPEG	H.265/H.264/MJPEG	Most OEM (from non land border countries) may not be able to comply with this requirement . It is also observed that some of the OEMs that meet or exceed may commit on paper specifications but shall not prove in field. Thus changes the video compression to H.265/H.264/MJPEG.	Pl. refer corrigendum.
<b>A.1.7</b>		Streams	Min. three compressed stream			

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<b>A.1.8</b>		Lens	2.8 mm to 12 mm lens	4.44~142.6mm(32x) zoom	Normally such lens use for closer view and whereas in Explosion Proof mainly view needs to be from far location for heavy security policy, thus request please changes the paramerets to min. 5mm to 100mm	Pl. refer corrigendum.
<b>A.1.13</b>		Network Protocols	IPv6, TCP, UDP, IGMP, DHCP, FTP, SNMP, SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, SSL, QoS, PPPoE, DNS, DDNS, ARP, ICMP, UPnP	IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour	Normally PPOE is not useful for such high secure scenario, thus please remove from the specification	Pl. refer corrigendum.
<b>A.2) 16 Channel NVR</b>						
<b>S/N</b>		<b>Parameters</b>	<b>Requirements</b>	<b>Remarks</b>		
<b>A.2.1</b>		IP Video Input	16 Channels			
<b>A.2.2</b>		Storage	2 SATA hard drives each support up to minimum of 10 TB per slot			
<b>A.2.3</b>		RAID	Should support Raid 5	NA	RAID 5 Required min. three HDD but in the specification it asked only 2SATA HDD only which is conflict with each other, thus requesting please help to remove this as in 16Ch NVR RAID is not mainly required	Pl. refer corrigendum.
<b>A.2.4</b>		Bandwidth	Incoming & Outgoing bandwidth : min 160 Mbps Incoming & 256 Mbps outgoing throughput		Most OEM (from non land border countries) may not be able to comply with this requirement . Additionally, if recording resolution is considered, 25 frames per second using H.265 compression technology and a 2 megapixel resolution for 16 cameras will only need 50 mbps of bandwidth; anything above that will be neither	Pl. refer corrigendum.

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					usable nor essential to meet the requirements.	
<b>A.2.5</b>		Video Compression	H.265, H.264, H.265+, H.264+, MJPEG		Most OEM (from non land border countries) may not be able to comply with this requirement . It is also observed that some of the OEMs that meet or exceed may commit on paper specifications but shall not prove in field. Thus changes the video compression to H.265/H.264/MJPEG.	Pl. refer corrigendum.
<b>A.2.6</b>		Video Output	Min 1ch HDMI, 1ch VGA		All display devices now accept HDMI, which is the most recent technology, in place of VGA. We thus advise only using the most recent technology.	Pl. refer corrigendum.
<b>A.2.10</b>		USB interface	1 × USB 2.0; 1 × USB 3.0 or better	2EA(Front 2 x USB 2.0)	Majorly in 16Ch NVR USB 2.0 is sufficient, thus please help to change it with min. USB 2.0 or better	No change.
<b>A.2.11</b>		Supported Protocols	Supports TCP/IP, UDP, DHCP, DNS, NTP, DDNS, PPPoE, FTP, UPnP, IPv6	IPv4, IPv6, TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Server, Client), SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI(Server, Client)	Normally PPOE is not useful for such high secure scenario, thus please remove from the specification	PPPoE is required.
<b>A.2.12</b>		ONVIF	Should support ONVIF profile S or higher			
<b>A.2.13</b>		Alarm I/O	16-ch input, 8-ch output	Alarm In 4EA, Out 2EA	A 16-channel NVR will never have alarm input/output devices with a 16/8 configuration; instead, it comes preloaded with 4 inputs and 2 outputs, which is more than enough to do any work.	Pl. refer corrigendum.

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- Clarifications against queries of M/s. BECIL**

<b>Sl. No.</b>	<b>Query</b>	<b>OIL's reply</b>
1	There is no PESO certificate asked by Oil India for Ex-proof camera, which is very important aspect of this kind of equipment in hazards are. the technical specifications have been deliberately made to avoid the manufacturing address issue. In ONVIF certificate, some OEM's Ex-Proof camera is registered on the name of their China entity which is a conflicting issue considering our Land Border criteria.	Pl. refer corrigendum.
2	All CCTV Camera & Network Video Management Solutions should be from the same OEM for better functionality & smooth integration.	Pl. refer corrigendum.
3	The Cameras shall be approved for Hazardous areas as per specifications. The copy of supporting documents/certificates from approved agencies (IECEX / ATEX etc.) in this regard and IP66 or better ingress protection should be submitted along with technical bid.	Pl. refer corrigendum.
4	The end user is not asking for PESO certificate for this camera. On PESO certificate, Hikvision is registered as the parent company manufacturing address which is against the land border sharing clause.	Pl. refer corrigendum
5	"SIMILAR WORK" mentioned in Para 2.2, i) above means experience of "Supply, Installation and Commissioning of CCTV Surveillance System with Annual Maintenance consisting of minimum 20 (Twenty) Explosion Proof Cameras for outdoor & hazardous environment of any Oil & Gas Sector/E&P companies/ Drilling installations for live viewing and recording for Completed/ Ongoing Project.	Pl. refer corrigendum.  For ongoing project experience, pl. refer sub clause m(iii) under Notes to BEC Clause 2.2.
6	Camera OEM should give a declaration on their letterhead that they have never been banned by ONVIF. The OEM should provide necessary documentary evidence for being a member of ONVIF.	No change.
7	Offered make explosion-proof camera should have minimum 03 (Three) years proven track record for satisfactory performance of the products in any Oil & Gas Sector / E&P companies/ Hazardous Environment Application. Performance certificate from any two end users are to be submitted along with bid.	Pl. refer corrigendum.

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• **Clarifications against queries of M/s. TATWA TECHNOLOGIES LIMITED**

Sl. No.	Query	OIL's reply
1	There is no PESO certificate asked by Oil India for Ex-proof camera, which is very important aspect of this kind of equipment in hazards are. the technical specifications have been deliberately made to avoid the manufacturing address issue. In ONVIF certificate, some OEM's Ex-Proof camera is registered on the name of their China entity which is a conflicting issue considering our Land Border criteria.	Pl. refer corrigendum.
2	All CCTV Camera & Network Video Management Solutions should be from the same OEM for better functionality & smooth integration.	Pl. refer corrigendum.
3	The Cameras shall be approved for Hazardous areas as per specifications. The copy of supporting documents/certificates from approved agencies (IECEX / ATEX etc.) in this regard and IP66 or better ingress protection should be submitted along with technical bid.	Pl. refer corrigendum.
4	The end user is not asking for PESO certificate for this camera. On PESO certificate, Hikvision is registered as the parent company manufacturing address which is against the land border sharing clause.	Pl. refer corrigendum
5	"SIMILAR WORK" mentioned in Para 2.2, i) above means experience of "Supply, Installation and Commissioning of CCTV Surveillance System with Annual Maintenance consisting of minimum 20 (Twenty) Explosion Proof Cameras for outdoor & hazardous environment of any Oil & Gas Sector/E&P companies/ Drilling installations for live viewing and recording.	Pl. refer corrigendum.
6	Camera OEM should give a declaration on their letterhead that they have never been banned by ONVIF. The OEM should provide necessary documentary evidence for being a member of ONVIF.	No change.
7	Offered make explosion-proof camera should have minimum 03 (Three) years proven track record for satisfactory performance of the products in any Oil & Gas Sector / E&P companies/ Hazardous Environment Application. Performance certificate from any two end users are to be submitted along with bid.	Pl. refer corrigendum.

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• **Clarifications against queries of M/s. SITL**

<b>Sl. No.</b>	<b>Tender Clause</b>	<b>Request to change/Query</b>	<b>OIL's Reply</b>
1	Offered make explosion-proof camera should have minimum 03 (Three) years proven track record for satisfactory performance of the products in any Oil & Gas Sector / E&P companies/ Hazardous Environment Application. Performance certificate from any two end users are to be submitted along with bid.	Offered make explosion-proof camera should have minimum 03 (Three) years proven track record for satisfactory performance of the products in any Oil & Gas Sector / E&P companies/ Hazardous Environment Application. OR Offered make explosion-proof camera should have been supplied, installed and commissioned in any Oil & Gas Sector / E&P companies/ Hazardous Environment Application during last 7 years. Performance certificate OR Project Completion certificate from any two end users are to be submitted along with bid.	Pl. refer corrigendum.
2	EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy.	We are MSME company and holding valid Udyam Registration under "SMALL" category for Major activity "SERVICE" our URN no. UDYAM-WB-10-0002168. Copy enclosed. As per our understanding we are fully complied the tender clause and we are exempted from paying EMD. Please confirm our understanding...	Please be guided by clause No. 10.0 of ITB

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• **Clarifications against queries of M/s. Trans Virtual Pvt Ltd.**

<b>Sl. No.</b>	<b>Query</b>	<b>Remarks</b>	<b>OIL's reply</b>
1	Chemical Earthing is not considered in the BoQ.	Request to add Chemical Earthing in the BoQ for all sites to keep the equipments safe.	Bidder to provide earth pits as per Clause No. 2.10.  The same may be quoted under Item No. 10.17 Other accessories.

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• **Clarifications against representation in GeM portal:**

<b>Sl. No.</b>	<b>Representation against the tender</b>	<b>OIL's Reply</b>
1	Whether any Underground cabling is in scope of Bidder?	Road Crossing Pipes will be provided by OIL. Bidder has to carry out necessary pipe & cable laying.
	Proforma I,II IV not available	It is uploaded under Any other Documents As per Specific Requirement of Buyer -1. Tab of bid document.
	During CAMC ,whether any Manpower to be deputed at Site/ or Visit on quaterly basis?	Manpower needs to be deputed as and when required to complete the job within the timeline as mentioned in the SOW.
2	In reference to the current bid clause under Make In India Policy, we understand DPIIT's approved Nodal Ministry gazette policy dated 29.08.2018 is applicable on the bid for procurement of notified products i.e. L2, L3 switches which are being procured under the current GEM Bid. In compliance to DPIIT's approved Nodal Ministry DoT order dated 29.08.2018, clause no. 16 Table - A, we understand the minimum Local content of 60% is required for the notified goods (L2, L3 Switches) which are being procured under the current GEM bid. Kindly confirm.	For minimum Local content against L2, L3 switches, please be guided by the minimum Local content percentage to be maintained as per Notification No. 18-10/2017-IP dated 29.08.2018.  Further, minimum local content for any other products/equipment's which are required under the scope of work of this tender shall have to be maintained, as per their respective Ministry notifications and necessary declaration if any shall have to be submitted along with the bid.
3	We understand from DoT order dated 29.08.2018 that for declaration of meeting the minimum Local content of 60%, Form-1 as per DoT's Order from the OEM on Non-judicial INR 100/- Stamp Paper is a mandatory required to be submitted while bidding. Please confirm.	Self certification of Form-I is acceptable.
4	"We understand from DoT order dated 29.08.2018, Clause no. 9 that the offered notified products (Switch) are to be in technical compliance to TEC latest GR of LAN switch for the parameters mentioned in the TEC GR other than the specified in this bid. Pl confirm the mandatory requirement of the Nodal ministry order. "	Technical Specs as per Tender & subsequent corrigendum.
5	We understand from DoT order dated 29.08.2018, Clause no. 10 (mandatory conditions) that the offered products or any product from the offered product family/ product series to be TSEC Certified against the TEC GR of LAN switch issued against any GOI tenders/orders to ensure robust, certified products are quoted in the bid. Kindly confirm.	Technical Specs as per Tender & subsequent corrigendum.
6	We understand from the Nodal Ministry DoT National IPV6 Policy dated 02.11.2022 that the offered products are to be IPV6 certified from day 1 for all procurement post 30.06.2022. The product should be listed on DoT's approved IPV6 certified portal. Please confirm.	Technical Specs as per Tender & subsequent corrigendum.
7	Please specify the delivery lead time	Pl. refer 8.0 Delivery details and timeline under SOW of the Tender.

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**CORRIGENDUM**

Clause No.	Original	Proposed Amendment	Remarks
SOW & TERMS OF REFERENCE AND TECHNICAL SPECIFICATIONS: 2.20	The Cameras shall be approved for Hazardous area as per specifications. The copy of supporting document / certificates from approved agencies (IECEX/ATEX etc.) in this regard and IP66 or better ingress protection should be submitted along with techno commercial bid.	The Cameras shall be approved for Hazardous area as per specifications. The copy of supporting document / certificates from approved agencies (IECEX/ATEX & PESO) in this regard and IP66 or better ingress protection should be submitted along with techno commercial bid.	PESO (Petroleum and Explosives Safety Organization) is required for hazardous oil & gas environment.
SOW & TERMS OF REFERENCE AND TECHNICAL SPECIFICATIONS: 2.23	<p><b>STANDARDS APPLICABLE:</b> The equipment and the system provided shall conform to the latest editions of applicable standards. The CCTV Integrated Video Surveillance system shall be IP based and ATEX/IECEX certifications are required for cameras and need to be submitted along with the bid.</p> <p>In case of any conflict between the above standards and the specifications, the specifications given in this document shall precede, however in case of further confusion, the matter shall be referred to OIL. Decision of OIL shall be final and binding.</p> <p>For electrical appliance, equipment, machinery or other material that are used or may be used in zone “1” or zone “2” hazardous areas of oil mines, test reports to be submitted conforming to the relevant standards which shall be from an Indian Government Laboratory or NABL accredited laboratory or IECEX accredited laboratory or ATEX notified body, which is not a part of manufacturer’s facilities. The latest version of standards shall prevail.</p>	<p><b>STANDARDS APPLICABLE:</b> The equipment and the system provided shall conform to the latest editions of applicable standards. The CCTV Integrated Video Surveillance system shall be IP based and ATEX/IECEX &amp; PESO certifications are required for cameras and need to be submitted along with the bid.</p> <p>In case of any conflict between the above standards and the specifications, the specifications given in this document shall precede, however in case of further confusion, the matter shall be referred to OIL. Decision of OIL shall be final and binding.</p> <p>For electrical appliance, equipment, machinery or other material that are used or may be used in zone “1” or zone “2” hazardous areas of oil mines, test reports to be submitted conforming to the relevant standards which shall be from an Indian Government Laboratory or NABL accredited laboratory or IECEX accredited laboratory or ATEX notified body, which is not a part of manufacturer’s facilities. The latest version of standards shall prevail.</p>	PESO (Petroleum and Explosives Safety Organization) is required for hazardous oil & gas environment for flameproof CCTV camera.

**CORRIGENDUM**

	The use of electrical apparatus either in Zone-“1” or Zone-“2” hazardous area of the mines shall comply with the provisions of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010 or latest.	The use of electrical apparatus either in Zone-“1” or Zone-“2” hazardous area of the mines shall comply with the provisions of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010 or latest.	
SOW & TERMS OF REFERENCE AND TECHNICAL SPECIFICATIONS: 4.2.1	All the Cameras, Monitors, Power supply, JBs, Glands etc. shall be Ex-certified for use in Hazardous areas, Zone 1&2, Gas Group IIA & IIB of Oil Mines [Ref. CEA Regulation-2010, reg. 110(3), (4) & (5)] .	All the Cameras, Monitors, Power supply, JBs, Glands etc. shall be Ex-certified for use in Hazardous areas, Zone 1&2, Gas Group IIA & IIB of Oil Mines (unless otherwise specified) [Ref. CEA Regulation-2010, reg. 110(3), (4) & (5)] .	For better clarity.
<b>Appendix-1:Technical Specifications</b>			
<b>A.1) 4 MP Fixed FLP Camera with Motorized Lens</b>			
<b>S/N</b>	<b>Parameters</b>	<b>Original Requirements</b>	<b>Modified As</b>
A.1.1	Camera Type	Explosion-Proof Network Motorized Varifocal Bullet Camera	Explosion-Proof Network Motorized Varifocal Bullet Camera, ONVIF Compliant
A.1.2	Max. Resolution	2688×1520	2688×1520 / 2592×1520 or better
A.1.5	Min. illumination	Color mode: 0.005 lux, B/W mode: 0 lux (IR ON)	Color mode: 0.005 lux, B/W mode: 0 lux (IR ON with inbuilt/external auto on/off control Illuminator)  Note: i) Illumination Distance: Upto minimum 50 m ii) External IR to be supplied with Explosion proof housing
			In line with BEC/BRC 2.2.C (Notes)
			For wider participation & technical flexibility.
			For wider participation & technical flexibility.

**CORRIGENDUM**

A.1.6	Video Compression	H.265, H.264, H.265+, H.264+, MJPEG	H.265, H.264, MJPEG	For wider participation & technical flexibility.
A.1.8	Lens	2.8 mm to 12 mm lens	2.8 mm to 12 mm / 5.3 mm to 159 mm lens	For wider participation & technical flexibility.
A.1.12	Audio Compression	G.711a/G.711u/AAC	G.711a/G.711u	For wider participation & technical flexibility.
A.1.13	Network Protocols	IPv6, TCP, UDP, IGMP, DHCP, FTP, SNMP, SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, SSL, QoS, PPPoE, DNS, DDNS, ARP, ICMP, UPnP	IPv6, TCP, UDP, IGMP, DHCP, SNMP, SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, SSL, QoS, DNS, ARP, ICMP, UPnP	For wider participation & technical flexibility.
A.1.17	Hazardous Certifications	ATEX/IECEX for Zone 1 of Gas Group IIA & IIB	ATEX/IECEX & PESO for Zone 1 of Gas Group IIA & IIB	PESO (Petroleum and Explosives Safety Organization) is required for hazardous oil & gas environment.
A.1.19 (New)	Additional features		Defogger	This is a critical requirement for operational purpose.
<b>A.2) 16 Channel NVR</b>				
A.2.3	RAID	Should support Raid 5	Deleted	For wider participation & technical flexibility.
A.2.4	Bandwidth	Incoming & Outgoing bandwidth : min 160 Mbps Incoming & 256 Mbps outgoing throughput	Incoming & Outgoing bandwidth : min 160 Mbps	For wider participation & technical flexibility.
A.2.5	Video Compression	H.265, H.264, H.265+, H.264+, MJPEG	H.265, H.264, MJPEG	For wider participation & technical flexibility.
A.2.6	Video Output	Min 1ch HDMI, 1ch VGA	Min 1ch HDMI, 1ch VGA / Min 2 ch HDMI	For wider participation & technical flexibility.
A.2.11	Supported Protocols	Supports TCP/IP, UDP, DHCP, DNS, NTP, DDNS, PPPoE, FTP, UPnP, IPv6	TCP/IP, UDP, DHCP, DNS, NTP, DDNS, FTP, UPnP, IPv6	For wider participation & technical flexibility.

**CORRIGENDUM**

A.2.13	Alarm	16-ch input, 8-ch output	4-ch input, 2-ch output	For wider participation & technical flexibility.
<b>A.3) HDD</b>				
A.3.1	Formatted Capacity	8 TB	Capacity to store minimum 30 days of high quality video footage of the complete system. Bidders are advised to quote item no 10.3 of BOQ accordingly.	To comply with requirement of 30 days of storage capacity as per DGMS requirement
<b>A.9) Industrial Ethernet Managed 8 port PoE switch with 4 SFP ports</b>				
A.9.2	Layer 2 features	Shall support Static IPv4/IPv6 routing, 32 static routes Shall support DHCP relay to simplify management of DHCP addresses in networks with multiple subnets	Shall support Static IPv6 routing, 32 static routes Shall support DHCP relay to simplify management of DHCP addresses in networks with multiple subnets	IPv6 is the updated version which is preferred.
<b>A.10) 8 port Gigabit Ethernet Managed Switch with 2 SFP for safe area</b>				
A.10.2	Layer 2 features	Shall support Static IPv4/IPv6 routing, 32 static routes Shall support DHCP relay to simplify management of DHCP addresses in networks with multiple subnets	Shall support Static IPv6 routing, 32 static routes Shall support DHCP relay to simplify management of DHCP addresses in networks with multiple subnets	IPv6 is the updated version which is preferred.
A.10.4	Management Features	Shall have an operating temperature of 0°C to +50°C	Shall have an operating temperature of 0°C to +45°C	For wider participation & technical flexibility.

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**OIL INDIA LIMITED**  
**(A Govt. of India Enterprise)**  
**P.O. DULIAJAN, DIST -**  
**DIBRUGARH**  
**ASSAM, INDIA, PIN-786602**

**CONTRACTS DEPARTMENT**  
**TEL: (91) 374-2800548**  
**E-mail: [contracts@oilindia.in](mailto:contracts@oilindia.in)**  
**Website: [www.oil-india.com](http://www.oil-india.com)**  
**FAX: (91) 374-2803549**

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**CORRIGENDUM NO. 3 DATED 27.09.2023**

to

**BID NO. GEM/2023/B/3884152 DATED: 28.08.2023**

for

**Hiring of service for Supply, Installation and Commissioning of CCTV Surveillance System with Comprehensive Annual Maintenance consisting of Explosion Proof Cameras for outdoor & hazardous environment of Oil & Gas Sector for live viewing and recording.**

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This Corrigendum is issued to notify the following changes:

**Bid Closing Date (BCD) / Bid Opening Date (BoD) has been extended upto 11.10.2023, 14:00 PM (IST).**

All others terms and conditions of the Bid Document remain unchanged.

**SD/-**

**SR. OFFICER- CONTRACTS (O)**

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OIL INDIA LIMITED  
(A Govt. of India Enterprise)  
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DIBRUGARH  
ASSAM, INDIA, PIN-786602

CONTRACTS DEPARTMENT  
TEL: (91) 374-2800548  
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Website: [www.oil-india.com](http://www.oil-india.com)  
FAX: (91) 374-2803549

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**CORRIGENDUM NO. 2 DATED 08.09.2023**

to

**BID NO. GEM/2023/B/3884152 DATED: 28.08.2023**

for

**Hiring of service for Supply, Installation and Commissioning of CCTV Surveillance System with Comprehensive Annual Maintenance consisting of Explosion Proof Cameras for outdoor & hazardous environment of Oil & Gas Sector for live viewing and recording.**

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This Corrigendum is issued to notify the following changes:

- 1.0 The interested bidder(s) against this tender, can attend the Pre-Bid Conference to be held on **Tuesday, September 12, 2023 9:00 am** via the following VC link:

Microsoft Teams meeting

**Join on your computer, mobile app or room device**

[Click here to join the meeting](#)

Meeting ID: 487 098 558 739

Passcode: dNbWZy

[Download Teams](#) | [Join on the web](#)

**Join with a video conferencing device**

[774052555@t.plcm.vc](mailto:774052555@t.plcm.vc)

Video Conference ID: 133 097 561 3

[Alternate VTC instructions](#)

[Learn More](#) | [Meeting options](#)

- For any other queries may contact [contracts@oilindia.in](mailto:contracts@oilindia.in); [alphonse.daimari@oilindia.in](mailto:alphonse.daimari@oilindia.in); [contracts-operations@oilindia.in](mailto:contracts-operations@oilindia.in)

All others terms and conditions of the Bid Document remain unchanged.

**SR. OFFICER- CONTRACTS (O)**



**OIL INDIA LIMITED**  
(A Govt. of India Enterprise)  
P.O. DULIAJAN, DIST -  
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FAX: (91) 374-2803549

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**CORRIGENDUM NO. 1 DATED 01.09.2023**

to

**BID NO. GEM/2023/B/3884152 DATED: 28.08.2023**

for

**Hiring of service for Supply, Installation and Commissioning of CCTV Surveillance System with Comprehensive Annual Maintenance consisting of Explosion Proof Cameras for outdoor & hazardous environment of Oil & Gas Sector for live viewing and recording.**

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This Corrigendum is issued to notify the following changes:

1. The description of subject in **PROFORMA-XV** was mentioned incorrectly. Therefore, to correct the same **REVISED PROFORMA-XV** has been uploaded as replacement of existing. Bidders are advised to submit the duly filled **REVISED PROFORMA-XV** as enclosed below.

All others terms and conditions of the Bid Document remain unchanged.

**(Shri. A. DAIMARI)**  
**SR. OFFICER- CONTRACTS (O)**

**REVISED PROFORMA-XV**

**UNDERTAKING TOWARDS PURCHASE PREFERENCE**

**TO**  
**CGM-CONTRACTS(HoD)**  
**Contracts Department**  
**P.O. DULIAJAN PIN-786602**  
**Dist. Dibrugarh, Assam**  
**India**

Dear Sir,

**SUB: Hiring of service for Supply, Installation and Commissioning of CCTV Surveillance System with Comprehensive Annual Maintenance consisting of Explosion Proof Cameras for outdoor & hazardous environment of Oil & Gas Sector for live viewing and recording.**

We\_\_\_\_\_ (Name of the bidder) have submitted bid against the subject tender. We are eligible and shall avail benefit of Purchase Preference under the policy (tick whichever applicable)

(please (✓) tick the policy you have opted)

<b>Policy</b>	<b>Response</b>
<b>PP MSE</b>	
<b>PP LC</b>	

Yours faithfully,

Signature: \_\_\_\_\_

Name & Designation \_\_\_\_\_

For & on behalf of \_\_\_\_\_