

Tender document No: IT/02/CCTV/2024/2571 dated 04.07.2024



**TENDER DOCUMENT
FOR**

**Selection of System Integrator for Supply, Installation,
Commissioning, Testing and Warranty of IP based
CCTV surveillance system with all Accessories along
with Annual Maintenance Support for 5 (five) years**

(through e-tendering)

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**THE ODISHA STATECO-OPERATIVE MILK PRODUCERS' FEDERATION LTD-2,
SAHID NAGAR, BHUBANESWAR**

PHONE: 0674 – 2546030/ 2546121/2540417 FAX NO: 0674 – 2540974

Website: www.omfed.com E-mail: omfed@yahoo.com

E-Procurement notice

Tender document No.: IT/02/CCTV/2024/2571

dated 04.07.2024

1.	Work name	Selection of System Integrator for Supply, Installation, Commissioning, Testing and Warranty of IP based CCTV surveillance system with all Accessories along with Annual Maintenance Support for 5 (five) years
2.	Availability of tender documents on the e-tendering portal of Government of Odisha	Date: 05.07.2024; Time: 11:00 A.M
3.	Last date for sending queries to OMFED	Date: 08.07.2024; queries may be sent by email to omfed@yahoo.com
4.	Pre-bid meeting	Date: 10.07.2024; Time: 03:30 P.M; Venue: Virtual mode
5.	Issue of responses to pre-bid queries, addendum/ corrigendum, if required	Date: 11.07.2024
6.	Bid Due Date	Date: 16.07.2024; Time: 12:30 P.M
7.	Opening of Technical Bid	Date: 16.07.2024; Time: 03:30 P.M
8.	Opening of Price Bid	To be informed to the Technically Qualified Bidders
9.	Tender Paper Fee (nonrefundable) including GST	Amount: INR 11,800 /- (Rupees Eleven Thousand Eight Hundred only) including GST@18%
10.	Earnest Money Deposit (EMD)	Amount: INR 1,00,000 (Rupees One Lakh only)

All other details can be seen from the Tender Document available on the e-procurement portal of the Government of Odisha (www.tendersodisha.gov.in) and on the website of OMFED

(www.omfed.com). OMFED reserves the right to reject any or all bids without assigning any reason thereof.

Sd/-

**Managing Director
OMFED**



www.omfed.com

**THE ODISHA STATE CO-OPERATIVE
MILK PRODUCERS' FEDERATION LTD.**

OMFED, D-2, Sahid Nagar, Bhubaneswar – 751007

Tel. No. 0674-2546030, 2546121, 2540576

E-mail Id: omfed@yahoo.com

Tender Notice

OMFED invites Tender for **Selection of System Integrator for Supply, Installation, Commissioning, Testing and Warranty of IP based CCTV surveillance system with all Accessories along with Annual Maintenance Support for 5 (five) years at Arilo Dairy, OMFED.**

Interested bidders may submit their offers latest by 12:30 P.M. dt. 16/07/2024. The cost of tender paper is ₹11,800/- (incl. GST 18%) along with EMD of ₹1,00,000/- (Rupees One Lakh Only) to be submitted online on the e-tender portal of Government of Odisha (www.tendersodisha.gov.in) in favor of OMFED payable at Bhubaneswar. For details visit our official website: www.omfed.com.

The corrigendum / amendment to this notice, if required shall be published only in the OMFED web site and will not be published again in newspaper.

OMFED reserves the right to accept or reject any or all the tenders or part thereof without assigning any reason.

**Sd/-
Managing Director**

1. Schedule for the Tender

Sl. No.	Parameter	Details
1.	Date of publication of Tender	Date: 05.07.2024 Time: 11:00 A.M
2.	Availability of tender documents on the e-tendering portal of Government of Odisha & on the OMFED Website	Date: 05.07.2024 Time: 11:00 A.M
3.	Last date for sending queries to OMFED	Date: 08.07.2024; queries may be sent by email to omfed@yahoo.com
4.	Pre-bid meeting	Date: 10.07.2024; Time: 03:30 P.M; Venue: Virtual & Will be intimated by mail
5.	Issue of responses to pre-bid queries, addendum/ corrigendum, if required	Date: 11.07.2024
6.	Bid Due Date	Date: 16.07.2024; Time: 12:30 P.M
7.	Opening of Technical Bid	Date: 16.07.2024; Time: 03:30 P.M
8.	Opening of Price Bid	To be informed to the Technically Qualified Bidders by appropriate means

OMFED

The Orissa State Cooperative Milk Producers' Federation Ltd.

D-2, Saheed Nagar, Bhubaneswar-751007.

Phone No: 0674-2544576, 2546030, 2546121, 2540417, 2540273

Customer Care Telephone No.- 0674-2547119, Fax: 0674-2540974

Email Id: **omfed@yahoo.com**

2. DATA SHEET

Sl. No.	Parameter	Details
1.	Name of tender	Selection of System Integrator for Supply, Installation, Commissioning, Testing and Warranty of IP based CCTV surveillance system with all Accessories along with Annual Maintenance Support for 5 (five) years
2.	Type of tendering	Open tendering
3.	Mode of tendering	e-tender
4.	E-tender site	www.tendersodisha.gov.in
5.	OMFED Website	http://omfed.com/
6.	Tender Paper Fee (non-refundable) including GST	INR 11,800 /- (Rupees Eleven Thousand Eight Hundred only) including GST@18%
7.	Earnest Money Deposit (EMD)	INR 1,00,000 /- (Rupees One Lakh only)
8.	Amount of Performance Security	10% of the total Contract value (excluding taxes) & 5% for MSME registered Bidders Amount shall be submitted in the shape of DD or Bank Guarantee in the format provided in Annexure 7
9.	Nodal Officer	Name: Sri. Jitendra Kumar Barada, In-charge (IT) Phone No.: 0674-2546030/ 2546121/2540417 Email: jitendrabarada@omfed.com
10.	Address of OMFED	OMFED, D-2, Sahid Nagar, Bhubaneswar - 751 007 Odisha, India
11.	Tender document No	IT/02/CCTV/2024/2571 dated 04.07.2024

3. Disclaimer

- 3.1 This Tender document is neither an agreement nor an offer by OMFED to the prospective Bidders or any third party. The purpose of this Tender document is to provide interested parties with information to facilitate the formulation of their Bid pursuant to this Tender document.
 - 3.2 This Tender document includes statements, which reflect various assumptions and assessments arrived at by OMFED. Such assumptions, assessments and statements do not purport to contain all the information that a Bidder may require. This Tender document may not be appropriate for all persons, and it is not possible for OMFED to consider the particular needs of each party who reads or uses this Tender document. The assumptions, assessments, statements and information contained in the Tender document may not be complete, accurate, adequate or correct. Each Bidder must, therefore conduct its own due diligence and analysis and should verify the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments, statements and information contained in this Tender document and obtain independent advice from appropriate sources.
 - 3.3 Information provided in this Tender document to the Bidder(s) is on a wide range of matters, some of which may depend upon interpretation of law. The information provided is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. OMFED accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed herein.
 - 3.4 OMFED, its employees make no representation or warranty and shall have no liability to any person including any Bidder under any law, statute, rules or regulations, the law of contract, tort, principles of restitution or unjust enrichment or otherwise for any loss, damage, cost or expense which may arise from or be incurred or suffered in connection with this Tender document, or any matter deemed to form part of this Tender document, or arising in any way in relation to this Bidding Process.
 - 3.5 Neither OMFED nor its employees make any representation or warranty as to the accuracy, reliability or completeness of the information in this Tender document. OMFED also accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any Bidder upon the statements contained in this Tender document.
 - 3.6 The Bidder should confirm that the Tender document downloaded by them is complete in all respects including all annexures and attachments. In the event the document or any part thereof is mutilated or missing, the Bidder shall notify OMFED immediately in writing.
 - 3.7 If no intimation is received within the last date for submission of Pre-Bid queries, it shall be considered that the Tender Documents received by the Bidder is complete in all respects and that the Bidder is fully satisfied with the Tender Documents.
 - 3.8 No extension of time shall be granted to any Bidder for submission of its Bid on the ground that the Bidder did not obtain the complete set of Tender Documents.
 - 3.9 This Tender document and the information contained herein are strictly confidential and
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Privileged and are for the exclusive use of the Bidder to whom it is issued. This Tender document shall not be copied or distributed by the recipient to third parties (other than, to the extent required by Applicable Law or in confidence to the recipient's professional advisors, provided that such advisors are bound by confidentiality restrictions at least as strict as those contained in this Tender document). In the event after the issue of the Tender document, the recipient does not continue with its involvement in the Bidding Process for any reason whatsoever, this Tender document and the information contained herein shall be kept confidential by such party and its professional advisors at all times.

- 3.10 OMFED may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the statements, information, assessment or assumptions contained in this Tender document at any time during the Bidding Process. All such changes shall be uploaded on the website of OMFED. It is the duty of Bidders to visit the website of OMFED regularly and keep themselves updated on the Bidding Process and any communication made in relation to the Bidding Process.
 - 3.11 The Bidders or any third party shall not object to such changes/ modifications /additions/alterations as provided in Clause 3.10 above, explicitly or implicitly. Any such objection by the Bidder shall make the Bidder's Bid liable for rejection by OMFED. Further objection by any third party shall be construed as infringement on confidentiality and privileged rights of OMFED with respect to this Tender document.
 - 3.12 The Bidder shall not make any public announcements with respect to the Bidding Process, this Tender document and/or the Bidding Documents. Any public announcements to be made with respect to the Bidding Process or this Tender document shall be made exclusively by OMFED. Any breach by the Bidder of this Clause shall be deemed to be in non-compliance with the terms and conditions of this Tender document and shall render the Bid liable for rejection. OMFED's decision in this regard shall be final and binding on the Bidder.
 - 3.13 By responding to the Tender document, the Bidder shall be deemed to have confirmed that it has fully satisfied and has understood the terms and conditions of the Tender document. The Bidder hereby expressly waives any and all claims in respect thereof.
 - 3.14 The Bid is not transferable.
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4. Scope of Services

- 4.1 The Bid has been invited under two bid system i.e. **Technical Bid and Financial Bid**.
- 4.2 The System Integrator (SI) shall Supply, Installation, Commissioning, Testing and Warranty of IP based CCTV surveillance system with all accessories in Arilo Dairy, Cuttack.
- 4.3 The BOQ for Arilo Dairy is mentioned below:

Sl. No.	Product / Material Description	Quantity	UOM
1.	5 MP IP Dome Camera with mounting accessories	91	Nos.
2.	5 MP IP Bullet Motorized Vari-focal Camera with mounting accessories	21	Nos.
3.	Storage Server (NAS)	1	Nos.
4.	4 MP PTZ Camera 300 Mtr with mounting accessories	6	Nos.
5.	Video Wall 100" + with mounting accessories	1	Nos.
6.	Main Server (2 Nos.) and PC client (2 Nos.)	4	Nos.
7.	VMS Software with multi user / multi location access	1	Nos.
8.	8-Port Gigabit Ethernet PoE/PoE+ managed Switch	10	Nos.
9.	8-port 10/100/1000 Base-T PoE Smart managed switch with 2 Fiber Uplinks	6	Nos.
10.	24-port 10/100/1000 Base-T Gigabit PoE+ Smart Managed with 4 Fiber 380W Switch L2	2	Nos.
11.	65" LED Monitor	4	Nos.
12.	CAT6 Cable Outdoor with laying through pvc pipe/weather proof pipe 20/25 mm	5	Bundle
13.	Media Converter Giga	10	Nos.
14.	Patch cords	260	Nos.
15.	Fiber Connectors modules gigabit	20	Nos.
16.	RJ45 Connector Industrial Grade	300	Nos.
17.	6" Gi/ms metal pole for ptz and outdoor cameras	4	Nos.
18.	Electrical Accessories (where electrical connection will be required)	As per actual	lot
19.	Camera Pole Mounting Box	50	Nos.
20.	Camera Mounting Box	75	Nos.
21.	Surveillance HDD 10TB	8	Nos.
22.	1 KVA UPS with dual battery min 30 mins backup	15	Nos.
23.	12 port rack mounting fms (liu) drawer type slidable	6	Nos.
24.	Installation, Configuration, Testing, Commissioning of 118 CCTV Cameras & server room	1	Job
25.	Rack 4U Outdoor	4	Nos.
26.	Weather resistant housing with fog wiping	6	set
27.	5 kva online ups (2-hour backup) for entire server	2	set

- 4.4 The SI shall complete the activity at Arilo Dairy, Cuttack within 08 Weeks from the date of signing of agreement.
- 4.5 The detailed scope and specifications of the services, along with the contract period, payment terms, etc. are given in Special Conditions of Contract as enclosed in **Annexure-2**.
- 4.6 The "General Conditions of Contract-Services" as enclosed in the tender at **Annexure-1** shall form an integral part of the Tender document and will also form a part of the Agreement placed against this tender.

5. Eligibility Criteria

The Bidders eligible to participate in this tender should fulfill the following Criteria:

Sl. No.	Criteria	Required Documents
5.1	<p><u>Technical Criteria</u> The Bidder must have experience of having successfully executed similar work during the last 5 (Five) years, which shall be either of the following:</p> <p>i) Three similar completed Services of value not less than INR 80 Lakhs each.</p> <p style="text-align: center;">OR</p> <p>ii) Two similar completed Services of value not less than INR 1.20 crore.</p> <p style="text-align: center;">OR</p> <p>iii) One Similar Completed Services of value not less than INR 2.00 crore</p> <p><u>Note:</u></p> <p>a. "Similar completed Services" shall mean the Bidder should have successfully executed the work of supply, installing, testing, commissioning and maintenance of Integrated IP Based CCTV Surveillance System/IT product integration and expertise in network and security solution system in a government organization (at Central government /State government/ PSU/ government Undertaking).</p> <p>b. Applicable 5 (Five) years shall be preceding five financial years excluding the financial year of floating of the Tender (i.e. FY 2019-20 to FY 2023-24)</p>	<p>Self-attested copies of</p> <p>a) Relevant contracts or work orders or agreements containing the scope of services, the value of the contract or work order or agreement; and</p> <p>b) Completion certificate from their clients/employers, regarding successful completion of the services.</p> <p>c) In case value of the contract is not mentioned in the contract or work order or agreement, then the value must be mentioned in the completion certificate issued by the client/employers.</p>
5.2	<p><u>Financial Criteria</u></p> <p>i) Average financial turnover of the Bidder during the last 3 (three) financial years should be at least INR 1 Cr.</p> <p>Note:</p> <p>a. Applicable 3 (three) years – FY2020-21, FY2021-22 & FY2022-23</p>	<p>a) Copy of Average Turn Over certificate of last 03 years (Year wise turnover) which should be certified by CA.</p> <p style="text-align: center;">OR</p> <p>b) Copies of audited financial statements.</p> <p>c) 26 AS Form for respective financial years shall be submitted.</p>

5.2.1	OEM Turnover should be more than 1200 Cr	Turn Over Copies duly self-attested should be attached.
5.3	Other Criteria	
5.3.1	The Bidder can be either i) a Company (Private or Public), or ii) a registered partnership firm, or iii) an LLP firm	Copies of a) Company (Private or Public) • Certificate of Incorporation • Memorandum of Association • Articles of Association b) Registered partnership firm • Registration certificate • Deed of Partnership c) LLP firm • Certificate of Incorporation • Deed of Partnership
5.3.2	The Bidder should have valid PAN and GSTIN registration	• Copy of PAN • Copy of GST registration certificate – REG 06 – ODISHA GST is mandatory
5.3.3	The Bidder should not have been banned/blacklisted by OMFED or any government agency or any PSU as on the date of submission of Bid	Affidavit to this effect, as per the format given in Annexure 4
5.3.4	Tender Paper Fee, EMD amount and Power of Attorney	a) Proof of Payment of Tender Paper Fee; please refer to Clause 6.6 for further details. b) Proof of Payment of EMD; please refer to Clause 6.7 for further details. c) Power of Attorney (as per format given in Annexure 8) in favor of the authorized signatory of the bidder. Please refer to clause 6.5 for further details.
5.3.5	The Bidder whose Contract/Agreement with OMFED had been terminated /Failed to perform will not be eligible to participate in the bidding process.	Decision of OMFED in this regard is final & binding on all such entities
5.3.6	The Bidder must have a Functional offices in Odisha.	Self-Attested Copy of Functional office (s) To be attached.
5.3.7	Bidder / OEM should have own dedicated support center available during working hours and must have at least 01 Service Center in Odisha to Provide onsite support.	Self-Attested copy of Service Center details like detail address to be attached.
5.3.8	Bidder should submit specific authorization from the OEM also for all the devices mentioned in the technical specification.	Copy of OEM Authorization Certificate to be attached. Note: (OMFED may cross verify with the OEM whether Authorization is authenticated or not.)
5.3.9	Products/Materials wise ISO and all	All the copies of quality reports to be

	other quality related certificate need to be submitted	Attached.
5.3.10	Compliance Sheet of all products/Materials	Copy of Compliance sheet approved by OEM / Local office of OEM to be Submitted. Self-attested copy of the mail or document to be submitted.
5.3.11	All the products / materials should have 03 years Warranty	Copies of supporting documents from OEM to be attached.
5.3.12	Site Survey report	A Complete report after Physical Site survey to be submitted.
5.3.13	Any influence on any of the employees of the Buyer organization to favor the bidder lead to disqualification of the bidder without notice	
5.3.14	Either the Bidder /OEM or its authorized dealer /agents on behalf of the Bidder/OEM will participate. Both cannot bid simultaneously for the same Item/product.	
5.3.15	AMC of 5 Years for this project.	MoU to be signed
5.3.16	Rate contract for 5 years for future enhancements	Bidder should submit an authorization for rate contract for all BOQ materials for 5 years to supply and installation with warranty and support for OMFED future enhancement within any area of ODISHA in same price and terms.

Note:

- a. The value of the contracts or work orders or agreements to be considered shall be exclusive of all taxes and duties.
- b. The word delivered means that the Bidder ought to have completed the scope of services in the technical capacity above, even if the total contract or Work Order is not completed/ closed. However, Bidder ought to have completed the entire range of services as specified in the Tender document, even if the total Contract is not completed/closed. The Bidder shall also be required to submit a part completion certificate which should clearly indicate the value and the completed portion (physical progress) of the work (which should satisfy requirement of the Tender document). The part completion certificate shall also highlight if the part performance/ progress of the work of the Bidder with respect to the services under consideration, was satisfactory or not.
- c. The technical experience as a sub-contractor to a main agency in a project/Contract awarded by the Competent Authority of principal employer may be considered subject to the condition that the detailed Contract/Work Order covers the entire range of services as mentioned in the Tender document. Following documents shall be furnished by the sub-contractor.
 1. Relevant contracts and Work Orders with the main agency containing the scope of services and the value of the contract or Work Order; and
 2. Completion certificate issued by the Competent Authority/ statutory auditor of the principal employer in favour of the main agency showing due completion of the package.
- d. Bidding in the form of a consortium is **NOT** allowed.

6. OEM Eligibility Criteria:

- 6.1 CCTV Camera OEM should not be blacklisted in India or anywhere globally for security reasons from any organization including ONVIF.
 - 6.2 OEM Should be ONVIF fulltime member and the name of the OEM should reflect in the ONVIF site.
 - 6.3 The OEM of CCTV Component should have General Data Protection Regulation (GDPR) and Waste Electrical and Electronic Equipment (WEEE) Certification. OEM needs to submit the certificates with technical bid.
 - 6.4 The OEM of Camera & NVR should have its own company registered in India, under Incorporation of Companies Act, 1956/2013 since last 10 years. Any representation through a Dealer/Distributor/Subsidiary/Consortium shall not be treated as OEM. This has to be supported by necessary statutory documents.
 - 6.5 CCTV OEM should have manufacturing in India since last five years and Foreign CCTV OEM should have manufacturing unit globally from last 10 years. Documentary evidence should be submitted.
 - 6.6 OEM should have its own Service Centers & Repairing Center in Odisha in their own Name. This should be supported with necessary documentary evidences.
 - 6.7 OEM should have ISO/IEC 27032:2012 Certificate which provides guidance for improving the state of Cyber security.
 - 6.8 The CCTV OEM should have CMMI Level 5 or above.
 - 6.9 CCTV OEM Company should not be technically rejected in any Govt. tender in India for their origin from any land border sharing countries of India.
 - 6.10 OEM Should be CE, FCC, ROHS, UL Required.
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7. Instruction to Bidders

- 7.1 The Bidders intending to participate in this tender are required to register on the e-procurement portal of the Government of Odisha (www.tendersodisha.gov.in). This is a onetime activity for registering on the Government website. During registration, the Bidders will be required to attach a Digital Signature Certificate (DSC) to the Bidder's unique user ID. The DSC used should be of appropriate class (Class II or Class III) issued from a registered Certifying Authority. The registration of Bidders on the portal shall be free of cost. The registration shall be in the name of the Bidder, whereas the DSC holder shall be the duly Authorized Signatory of the Bidder.
- 7.2 The tender documents shall be available on the state e-procurement portal (www.tendersodisha.gov.in) and the website of OMFED (www.omfed.com). There shall be no sale of hard copies of the tender documents. Tenders can be accessed by the prospective Bidders at the above websites and may be downloaded by them free of cost. However, the Tender Paper Fee shall have to be paid at the time of bid submission, unless exempted to be paid by the competent authority.
- 7.3 E-tendering process is mentioned in **Chapter 09**.
- 7.4 The bids are to be submitted in two covers, consisting of: (i) Techno-Commercial Bid (under Cover I) and (ii) Price Bid (under Cover II). Both the Techno-Commercial Bid and the Price Bid have to be submitted on the e-procurement portal of the Government of Odisha.
- 7.5 The Authorized Signatory of the Bidder shall be duly authorized by a Power of Attorney authorizing him/her to perform all tasks related to tender submission, including but not limited to sign and submit the bid and to participate in the bidding process on behalf of the Bidder. The format for the Power of Attorney is given in Annexure 3 of this Bid document. Each page of all scanned documents submitted as part of the Techno-Commercial Bid shall be initialed with date by the Authorized Signatory of the Bidder at the lower left-hand corner of each page. The power of attorney is case of company shall submit the board resolution in this regard.
- 7.6 **Tender Paper Fee**
- 7.6.1 The Bidder shall pay to OMFED a non-refundable amount ("Tender Paper Fee"), indicated in the Data Sheet, as part of its Techno-Commercial Bid. The mode of payment of the Tender Paper Fee is also indicated in the Data Sheet.
- 7.6.2 The Bidders, who are exempted to deposit Tender Paper Fee due to any exemption granted by the Government of Odisha, are required to attach scanned copy of relevant documents evidencing such exemption granted, along with the Techno-Commercial Bid document while submitting online. The Bidders, who does not submit Tender Paper Fee claiming exemption but does not submit relevant document, is ineligible for bidding and such bid shall be summarily rejected.
- 7.7 **Earnest Money Deposit (EMD)**
- 7.7.1 Bidders as part of their Techno-Commercial Bid shall have to submit an Earnest Money Deposit; the amount of the EMD as indicated in the Data Sheet.
- 7.7.2 **Mode of Payment:** The EMD shall be in the form of DD and in favour of OMFED, Bhubaneswar payable at Bhubaneswar. The mode of submission of the EMD is also indicated in the Data Sheet. For the avoidance of doubt, it is clarified that OMFED shall not be liable to pay any interest on the EMD deposit so made and the same shall
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be interest free.

7.7.3 **EMD Exemption:** MSME Registered bidders are exempted on EMD. The bidders who are exempted to deposit Earnest Money Deposit (EMD) are required to attach copies of relevant documents evidencing such exemption granted, along with the Techno-Commercial Bid document while submitting. The Bidders, who does not submit EMD Fee claiming exemption but does not submit relevant document, is ineligible for bidding and such bid shall be summarily rejected.

7.7.4 **Return of EMD:**

The EMD of the technically disqualified Bidders shall be returned after declaration of the list of technically qualified Bidders. The EMD of other unsuccessful Bidders shall be refunded after signing of the Agreement with the Successful Bidder. The return of the EMD shall be in the form of bank transfer to the account of the Bidder by OMFED.

7.7.5 The EMD of the Preferred Bidder shall be returned upon the Preferred Bidder furnishing the Performance Security.

7.7.6 **Forfeiture of EMD:** The EMD shall be forfeited and appropriated by OMFED as a genuine pre-estimated compensation and damages payable to OMFED for, inter alia, the time, cost and effort of OMFED without prejudice to any other right or remedy that may be available to OMFED hereunder, or otherwise, under the following conditions:

- i) if any of the documents submitted by a Bidder as part of the bid is found to be not genuine or forged or any of the claims, confirmations, statements or declarations of the Bidder is found to be incorrect or inconsistent, or is a case of any material misrepresentation of facts at any point of time during the bid evaluation process;
- ii) if the Preferred Bidder fails to acknowledge and return to OMFED a signed copy of the LoA or Agreement within the timeframe allowed by OMFED;
- iii) if the Preferred Bidder fails to submit the Performance Security within the timeframe allowed by OMFED;
- iv) if a Bidder withdraws its bid before completion of the bidding process during the bid validity period, except as provided in **Clause 6.8**;
- v) If the Bidder has otherwise committed any breach of the terms of this Bid document;
- vi) in case the Preferred Bidder, does not comply with the requirements of the Price Bid;
- vii) in case the Techno-Commercial Bid of a Bidder contains any information on the Price Bid of the Bidder;

7.7.7 In case of cancellation of the tender before bid opening date and time, the EMD shall be refunded to respective Bidder's account.

7.8 **Bid validity period:** The bid shall initially remain valid and binding on the Bidder for at least Five Years (05 Years) from the Bid Due Date, as given in the Schedule for the Tender & as mentioned in Section 5 Table point 5.3.17. Any bid with a shorter validity period shall be rejected by OMFED. Under exceptional circumstances, OMFED may in

writing request the Bidders to extend the bid validity period of their bids. In case the Bidder refuses the request of OMFED to extend its bid, the EMD of such Bidder will be returned to the Bidder. However, such bids will not be evaluated further.

- 7.9 **Issue of clarifications:** Bidders may also send their queries by email; queries received after the last date for sending queries (as per the Schedule for the Tender) may not be considered by OMFED. The responses to the queries received shall be published by OMFED on its website or will be discussed during pre-bid meeting or will be sent through mail and the same shall also be considered to be a part of the tender documents; however, the source of queries shall not be mentioned.
- 7.10 **Issue of corrigendum / amendment:** At any time prior to the Bid Due Date, OMFED may at its own initiative or in response to a query or clarification requested by a prospective Bidder if found appropriate, issue a corrigendum/ amendment to the tender documents, which shall be available for download on its website and the same shall also be considered to be part of the tender documents. In order to give Bidders reasonable amounts of time to take into account such corrigendum / amendment, OMFED may at its own discretion also extend the Bid Due Date.
- 7.11 **Extension of Bid Due Date:** OMFED may, at its discretion, extend the Bid Due Date which shall be related as an act of amendment of this Bid document.
- 7.12 **Acknowledgement by the Bidder:** It shall be deemed that by submitting its bid, the Bidder has:
- i) made a complete and careful examination of the tender documents, including the proforma agreement;
 - ii) received all relevant information requested from OMFED;
 - iii) accepted the risk of inadequacy, error or mistake in the information provided in the tender documents or furnished by or on behalf of OMFED relating to any of the matters related to this tender or otherwise;
 - iv) satisfied itself about the scope of work and services to be delivered/rendered and the extant conditions and all matters, things and information necessary and required for submitting an informed bid and for providing the required services in accordance with the tender documents including the contract (to be signed with OMFED) and performance of all of its obligations thereunder;
 - v) acknowledged and agreed that inadequacy, lack of completeness or incorrectness of information said to be in the bidding documents or ignorance of any of the matters shall not be a basis for any claim for compensation, damages, extension of time for performance of its obligations, loss of profits etc. from OMFED;
 - vi) agreed to be bound by the undertakings provided by it under and in terms; and

OMFED shall not be liable for any omission or commission, mistake or error in respect of any of the above or on account of any matter or thing arising out of or concerning or relating to the tender documents or the bidding process, including any error or mistake therein or in any information or data given by OMFED.

7.13 **Right to accept or reject any/ all bids:** Notwithstanding anything contained in the Tender document, OMFED reserves the right in its sole discretion, without any obligation or liability whatsoever, to accept or reject any or all of the Bids at any stage of the Bidding Process without assigning any reasons, thereof. Further OMFED reserves the right to annul the Bidding Process and / or to reject any or all Bids at any stage prior to the signing of Agreement without thereby incurring any liability to the affected Bidders or any obligation to inform the affected Bidders of the grounds for OMFED's action. Decision of OMFED shall be final and binding in this regard. OMFED reserves the right to reject any bid if at any time, a material misrepresentation is made or uncovered or if the bid received is conditional or qualified.

7.14 **Language of the bid:** The bid and all related correspondence and documents in relation to the bidding process shall be in the English language. Supporting documents and printed literature furnished by the Bidder with the bid may be in any other language provided that they are accompanied by translations of all the pertinent passages in the English language, duly authenticated and certified by the Bidder. Supporting materials, which are not translated into English, may not be considered. For the purpose of interpretation and evaluation of the bid, the English language translation shall prevail. The English translation of the documents shall be carried out by professional translators and the translator shall certify that he is proficient in both languages in order to translate the document and that the translation is complete and accurate.

7.15 **Bid to be submitted by Bidders:** The bid to be submitted by Bidders shall consist of the Techno-Commercial Bid and the Price Bid.

7.15.1 **Techno-Commercial Bid:** Bidders shall have to submit their Techno-Commercial Bid offline at OMFED, BBSR. The Techno-Commercial Bid should consist of clear and legible copies of all the required documents and should be submitted within the Bid Due Date, as indicated in the Schedule for the Tender. The Techno-Commercial Bid shall contain no information on the Price Bid of the Bidder. The Techno-Commercial Bid shall consist of the following:

- i) Documents Supporting Eligibility Criteria (**Refer Chapter 5**)
- ii) Techno-Commercial Bid checklist as per **Annexure 5**
- iii) Mandate Form for Bank payment as per **Annexure 6**

7.15.2 **Price Bid:** The Price Bid shall be submitted as per the price bid format in **Annexure 3**.

7.16 **Material deviation**

7.16.1 Bids shall be liable for rejection in case of material deviation, that shall include, inter alia, the following:

- i) The Techno-Commercial Bid or any accompanying document or Price Bid submitted by the Bidder is not in accordance with the formats given in this tender document.
 - ii) The Techno-Commercial Bid is not accompanied by all the documents required to be
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submitted in terms of this tender document as per **Clause 7.13.1**

- iii) It does not contain all the information (complete in all respects) as requested in this tender document (in accordance with the formats provided in this tender document);
- iv) The Techno-Commercial Bid is not accompanied by documentary evidence of the credentials of the Bidder(s).
- v) The Techno-Commercial Bid or Price Bid submitted by the Bidder is conditional or qualified.
- vi) The bid submitted by the Bidder is not valid for the minimum bid validity period, as per **Clause 7.6**.
- vii) It is otherwise substantially/ materially in deviation of the terms and conditions of the tender document.

7.16.2 OMFED may waive any nonconformity in the Bid that does not constitute a material deviation, reservation or omission. OMFED may request that the Bidder submit information or documentation, within a reasonable period of time (**Refer Clause 7.17.3**), to rectify nonmaterial nonconformities in the Technical-Commercial Bid related to documentation requirements. Requesting information or documentation on such non-conformities shall not be related to any aspect of the Price Bid. Failure of the Bidder to comply with the request of OMFED by the date specified therein, may result in the rejection of its Bid. OMFED, however, is not bound to waive such non-conformity under this **Clause 7.17.2**.

7.17 **Bid preparation cost:** The Bidder shall bear all its costs associated with or relating to the preparation and submission of its Bid including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by OMFED or any other costs incurred in connection with or relating to its Bid. All such costs and expenses will remain with the Bidder and OMFED shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by a Bidder in preparation or submission of the Bid, regardless of the conduct or outcome of the Bidding Process.

7.18 **Opening of Techno-Commercial Bids:** The Techno-Commercial Bids shall be opened as per the schedule indicated in Schedule for the Tender.

7.19 **Evaluation of Techno-Commercial Bids:**

7.19.1 The Techno-Commercial Bids shall first be evaluated to determine whether they are complete, whether the required documents have been submitted in the correct formats and whether the documents have been properly signed by the Authorized Signatory and whether the Techno-Commercial Bid is generally in order. It will be determined whether the Techno-Commercial Bid is of acceptable quality, is generally complete and is substantially responsive to the tender documents. For purposes of this determination, a substantially responsive Techno-Commercial Bid is one that conforms to all the terms, conditions and specifications of the tender documents without any material deviations (as defined in **Clause 7.14**), objections, conditionality's or reservations.

- 7.19.2 A Techno-Commercial Bid which is not substantially responsive, may be rejected by OMFED, and may not subsequently be made responsive by the Bidder by correction of the material deviations, as defined in **Clause 7.14**.
- 7.19.3 If required, OMFED may ask Bidders to provide clarifications on the submitted documents provided in the Techno-Commercial Bid, if necessary, with respect to any doubts or illegible documents. The Officer Inviting Tender may ask for any other documents of historical nature during Technical Evaluation of the tender. Non submission of legible documents may render the bid nonresponsive. The authority inviting bid reserves the right to accept any additional document. Such clarifications shall be submitted by the Bidder through email. The Bidders shall be allowed a maximum time period of 3 (three) working days for submitting the requisite shortfall documents through email. However, no changes in the Price Bid shall be sought, offered or permitted, nor shall the documents sought be related to the EMD. No modification of the bid or any form of communication with OMFED or submission of any additional documents, not specifically asked for by OMFED will be allowed and even if submitted, they may not be considered by OMFED.
- 7.19.4 The responsive Techno-Commercial Bids shall then be evaluated in detail to determine whether they fulfill the eligibility criteria (as given in **Chapter 5**) and other requirements of the tender, such as submission of all the requisite documents as listed in **Clause 7.13.1**.

7.20 **Opening and Evaluation of Price Bids**

- 7.20.1 The date and time of opening of the Price Bids shall be communicated to the technically qualified Bidders in writing by e-mail or registered post/Speed Post; the Price Bids of only technically qualified Bidders shall be opened. A comparative statement shall be prepared detailing each price component in the bid and including all components of the Price Bid, as per **Clause 7.13.2**.
- 7.21 **Preferred Bidder:** The Bidder who submits the lowest Price Bid shall be the Preferred Bidder. The Preferred Bidder shall be issued the LoA. OMFED reserves the right to negotiate the price with the Preferred Bidder before issue of the LoA. The Preferred Bidder shall have to acknowledge and accept the LoA by returning a signed copy of the LoA within a period of 03 (Three) days of issue thereof, along with submission of the Performance Security, failing which the issued LoA may be cancelled and EMD of the Preferred Bidder shall be forfeited by OMFED.

7.22 **Tie-Bidders:**

In the event that 2 (two) or more technically qualified Bidders (the "Tie Bidders") have submitted the lowest identical Price Bids. OMFED shall hold an auction amongst such Tie Bidders. The auction shall be held at Corporate Office of OMFED and only the Tie Bidders shall be invited to attend the same, wherein they have to physically submit their revised Price Bids on their letterhead (with company rubber stamp) and in sealed covers. Hence the Authorized Signatory of the Tie Bidders are required to attend such auction. The revised Price Bid (the "Revised Price Bid") submitted by a Tie Bidder during the auction should be lower than Price Bid already submitted by it, else the revised Price Bid shall not be considered by OMFED for further evaluation. The Tie Bidder who offers the lowest revised Price Bid in such auction shall be declared to be Preferred Bidder and the lowest revised Price Bid received by OMFED during such auction shall be the L1 price.

In the event that the Authorized Signatory of a Tie Bidder is not present during the auction or the Authorized Signatory of such Bidder does not or is unwilling to participate in such auction, the auction would be held amongst the remaining Tie Bidders and if there be only one remaining Tie Bidder, the latter will be declared as the Preferred Bidder, provided that the revised Price Bid submitted by such Bidder is lower than that its earlier submitted Price Bid; in such as case the revised Price Bid submitted by such Bidder shall be considered to be the L1 price. In case of a second round of tie between the revised Price Bids submitted by the Tie Bidders, the Bidder with the higher average annual turnover (to be determined by OMFED on the basis of the audited financial statements submitted by such Bidders as part of their Techno-Commercials Bids) in the last 3 (three) financial years shall be declared as the Preferred Bidder and the L1 price shall be the revised Price Bid submitted by such Bidder during the auction.

7.23 Signing of Agreement:

Within 03 (Three) days of receipt of the signed copy of the LoA, along with the Performance Security, the Agreement shall be signed by the Preferred Bidder, failing which the Performance Security shall be forfeited and appropriated by OMFED. Upon signing of the Agreement, the Preferred Bidder shall be considered to be the “Successful Bidder”. The pro-forma of the Agreement is provided in **Annexure 2A** hereof. Post signing of the Agreement, OMFED shall issue Service Order(s) to the Successful Bidder.

7.24 Performance Security: The formula for calculating the amount of the Performance Security is indicated in the Data Sheet. The Preferred Bidder shall submit the Performance Security at the Head Office, OMFED upon issue of LoA within a period of 15 (fifteen) days. Performance Security shall be in the form of a Bank Guarantee from any Nationalized/ Scheduled Bank invocable at their branch in Bhubaneswar as per the format given in Annexure 7 or in the form of demand draft from a scheduled commercial bank and payable in Bhubaneswar, Odisha. Performance Security in the form of BG should be operable for invocation at any Nationalized/ Scheduled bank at Bhubaneswar.

The Performance Security will be valid for 12 (Twelve) months for each Contractual Year and the Performance Security shall be extended and adjusted for the next Contractual Year upon receiving the letter from OMFED to commence the subsequent Contractual Year’s operation. The Performance Security shall be released on completion of the scope of services and shall be released after a period of 60 (sixty) days post completion of the scope of services including Warranty Period, as evidenced by issue of completion certificate by OMFED designated officer/ key contact for this contract.

8. Additional Information to Bidders

8.1 Pre-bid meeting:

8.1.1 A pre-bid meeting shall be organized by OMFED; the date and time of the pre-bid meeting is indicated in the Schedule for the Tender. Bidders wishing to attend the pre-bid meeting should inform OMFED by email (Refer Data Sheet), along with the names and email ids of the officials/ representatives of the Bidder who would be attending the meeting, at least 1 (one) working days before the pre-bid meeting. OMFED shall then send the invite for the pre-bid meeting to the email-ids that OMFED would be receiving.

8.1.2 However, attendance of the Bidders at the pre-bid meeting is not mandatory. A maximum of two officials/ representatives from each Bidder may attend the pre-bid meeting. All costs of the Bidder related to attending the pre-bid meeting shall be borne by the Bidder.

9. Additional Information on E-tendering process

- 9.1 The e-tendering process shall be held on the e-procurement portal of the Government of Odisha (www.tendersodisha.gov.in). All the steps involved starting from hosting of tenders till determination of the Selected Bidder shall be conducted online on the e-procurement portal.
- 9.2 The Bidder will have to accept unconditionally the online user portal agreement which contains the acceptance of all the terms and conditions including commercial and general terms and conditions and other conditions, if any, along with on-line undertaking in support of the authenticity of the declarations regarding the facts, figures, information and documents furnished by the Bidder on-line in order to become an eligible Bidder. No conditional bid shall be allowed / accepted.
- 9.3 The Bidder will have to give an undertaking online that if the information/declaration/scanned documents furnished in support of the same in respect of eligibility criteria are found to be wrong or misleading at any stage, they will be liable to punitive action and this includes forfeiture of EMD and cancellation/ termination of contract/Agreement.
- 9.4 The Bidder will submit their Techno-Commercial Bid and Price Bid on-line. The Bidders will have to upload a scanned copy of the Techno-Commercial Bid in Cover-I; the Price Bid is to be submitted in Cover-II.
- 9.5 Procedure for bid submission and payment of Tender Paper Fee and EMD.
 - 9.5.1 **Log on to e-procurement portal:** The Bidders have to log onto the e-procurement portal of the Government of Odisha (www.tendersodisha.gov.in) using their digital signature certificate and then search and then select the required active tender from the "Search Active Tender" option. Then the submit button can be clicked against the selected tender so that it comes to the "My Tenders" section.
 - 9.5.2 **Uploading of the Techno-Commercial Bid and the Price Bid:** The Bidders have to upload the required Techno-Commercial Bid and the Price Bid, as mentioned in the tender document and in line with the Works Department office memorandum no.7885, dated 23 July 2013.
 - 9.5.3 **Payment of Tender Paper Fee and EMD:** Tender Paper Fee and EMD shall be paid using a single banking transaction. The Bidders have to select and submit the bank name as available in the payment options. A Bidder shall make electronic payment using his/her internet banking enabled account with designated banks or their aggregator banks. The payment gateways of the designated banks (State Bank of India/ ICICI Bank, HDFC Bank) are integrated with the e-procurement portal. A Bidder having account in other banks can make payment using NEFT/RTGS facility of designated banks. Online NEFT/RTGS payment can be done using internet banking of the bank in which the Bidder holds his account, by adding the account number as mentioned in the challan as an interbank beneficiary. Only those Bidders who successfully remit their EMD on submission of bids would be eligible to participate on the tender/bid process. The Bidders with pending or failure payment status shall not be able to submit their bid. Tender Inviting Authority, State Procurement Cell, NIC and the designated Banks shall not be held responsible for such pendency or failure.

- 9.5.4 **Bid submission:** Only after receipt of intimation at the e-procurement portal regarding successful transaction by Bidder, the system will activate the 'Freeze Bid Submission' button to conclude the bid submission process.
- 9.5.5 System generated acknowledgement receipt for successful bid submission: System will generate an acknowledgement receipt for successful bid submission. The Bidder should make a note of 'Bid ID' generated in the acknowledgement receipt for tracking their bid status.
- 9.5.6 Settlement of EMD on submission of bids: The Bank will remit the Earnest Money Deposit on cancellation of bids to respective Bidder's account as per direction received from Tender Inviting Authority through e-procurement system.
- 9.5.7 Forfeiture of EMDs: The forfeiture of EMD on submission of bid of defaulting Bidder may be occasioned for various reasons. In case the EMD Deposit on submission of bid is forfeited, the e-Procurement portal will direct the Bank to transfer the EMD value from the Pooling Account of SPC to the registered account of the Tender Inviting Authority, i.e. OMFED.
- 9.6 **Price Bid:** The price bid containing the bill of quantity will be in Excel format (or any other format) and will be uploaded by OMFED during tender creation. This will be downloaded by the Bidder and will be used to quote the Price Bid, inclusive of all taxes & duties etc. Thereafter, the Bidder will upload the same Excel file during bid submission in Cover-II. The L1 price will be decided for module as stipulated in the tender. The Price Bid of the Bidders will have no conditions. The Price Bid which is incomplete and not submitted as per instructions given shall be summarily rejected by OMFED without any further reference to the Bidder.
- 9.7 **Modification of bids:** Modification of the submitted bid shall be allowed online only before the Bid Due Date. A Bidder may modify and resubmit the bid online as many times as he may wish. Bidder may withdraw only once its Bid online within the end date of Bid submission.
- 9.8 **Opening of Techno-Commercial Bids:** The Techno-Commercial Bids shall be opened as per the schedule given in the Schedule of Tender. The Techno Commercial bids (Cover-I) will be decrypted on-line and will be opened by the designated bid openers of OMFED with their Digital Signature Certificates (DSC). The Techno-Commercial Bids shall be opened as per the schedule, irrespective of the number of bids received. Even in case of receipt of single bid, the Techno-Commercial Bid shall be opened for evaluation. In case no bids are received, the tender shall be automatically cancelled with approval of the competent authority of OMFED.
- 9.9 Evaluation of Techno-Commercial Bids: The Techno-Commercial Bids shall be evaluated in terms of Clause 7.19. If required, OMFED may ask Bidders to provide clarifications on their bid or provide shortfall documents within a period of 3 (three) working days. The Bidders will get this information on their personalized dash board under "Upload shortfall document/information" link. However, no changes in the Price Bid shall be sought, offered or permitted, nor shall the documents sought be related to the EMD or the Tender Paper Fee. No modification of the bid or any form of communication with OMFED or submission of any additional documents which are not specifically asked for by OMFED, will be allowed and even if submitted, they will not be considered by OMFED. Additionally, information shall also be sent by system generated e-mail and SMS, but it will be the Bidder's responsibility to check the

updated status/information on their personalized dash board at least once daily after opening of bid. No separate communication will be required in this regard. Non-receipt of email and SMS will not be accepted as a reason for non-submission of documents within prescribed time. The Bidder shall submit the requisite clarifications and the requested documents and in the Upload Shortfall document section of the e-procurement portal within the specified period and no additional time will be allowed for submission of the clarifications/ documents. In case of any failure of the Bidder to submit the requisite documents within the allowed timeframe, OMFED shall proceed to evaluate its Techno-Commercial Bid without any further reference to the Bidder.

- 9.10 Based on the evaluation of the Techno-Commercials Bids, the list of technically qualified Bidders shall be prepared and the same shall be uploaded, along with the date and time of opening of Price bid in the portal and such Bidders shall also be informed through system generated e-mail and SMS alert. The Price Bid of such shortlisted Bidders shall be decrypted and opened on the scheduled date and time by the designated bid openers of OMFED with their Digital Signature Certificates. The Bidders may view the price bid opening online remotely on their personalized dash board under the link "Bid Opening (Live)" and can see the Price Bid /BOQ submitted by all shortlisted Bidders.
- 9.11 A comparative statement of the Price Bids shall be generated by the e-procurement system. The same shall be downloaded and will be signed by the officers of OMFED opening the Price Bids and submitted to the competent authority of OMFED for approval and further necessary action. The comparative statement shall also be viewable to the participating Bidders whose Price Bids were opened. In case of tie bids, the same shall be dealt with in terms of Clause 7.21.
- 9.12 Upon approval and completion of the due process of OMFED, the Preferred Bidder shall be issued the LoA in terms of Clause 7.21. The LoA shall be sent through registered/ speed post to the office address of the Preferred Bidder; a scanned copy of the Agreement/Service Order shall also be uploaded on the e-procurement portal.

Annexure 1: General Conditions of Contract-Services

1. Definitions

In the interpretation of the Contract and the general and special conditions governing it, unless the context otherwise requires:

- 1.1 "Contract Price" or "Contract Value" shall mean the price payable to the Service Provider under the Service Order / Agreement for the full and proper performance of his contractual obligations;
- 1.2 "Service Order" or "Contract" or "Agreement" shall mean the Service Order / Agreement and all attached exhibits and documents referred to therein and all terms and conditions thereof together with any subsequent modifications thereto;
- 1.3 "Site" shall mean the place or places named in the Service Order / Agreement or such other place or places at which any work has to be carried out as may be approved by OMFED;
- 1.4 "Service Provider" or "Contractor" shall mean a firm or company with whom the Service Order / Agreement is placed and shall be deemed to include the supplier in successors (approved by OMFED) representatives, heirs, executors, administrators and permitted assignee as the case may be;
- 1.5 "Services" means the services specified in the Service Order which the Service Provider has agreed to supply under Service Order / Agreement;

2. Scope of Services

- 2.1 Scope of Services shall be as defined in the Special Conditions of Contract and Annexure thereto.

3. Instructions, Direction & Correspondence

- 3.1 All instructions and orders to Service Provider shall, excepting what is herein provided, be given by OMFED.
- 3.2 All the work shall be carried out under the direction of and to the satisfaction of OMFED.
- 3.3 All communications including technical/commercial clarifications and/or comments shall be addressed to OMFED shall always bear reference to the Service Order / Agreement.
- 3.4 Invoices for payment against Service Order / Agreement shall be addressed to OMFED.
- 3.5 The Service Order / Agreement number shall be shown on all challans / invoices, communications, packing lists, containers and bills of lading (as applicable), etc.

4. Service Order / Agreement Obligations

- 4.1 If after award of the LoA, the Service Provider does not acknowledge the receipt of award or fails to furnish the Performance Security within the prescribed time limit (as the case maybe), OMFED reserves the right to cancel the LoA and forfeit the EMD.
- 4.2 Once a Service Order / Agreement is accepted and confirmed and signed, the terms and conditions contained therein shall take precedence over the Service Provider's bid and all previous correspondence.
- 4.3 The Service Order/ Agreement shall, in all respects, deemed to be and shall construe

and operate as an Indian Contract in conformity with the Indian Laws.

5. Modification in Service Order / Agreement

- 5.1 All modifications leading to changes in the Service Order / Agreement with respect to technical and/or commercial aspects including terms of delivery of services, shall be considered valid only when accepted in writing by OMFED by issuing amendment to the Service Order / Agreement. Issuance of acceptance or otherwise in such cases shall not be any ground for extension of agreed delivery date and also shall not affect the performance of Service Order / Agreement in any manner except to the extent mutually agreed through a modification of Service Order / Agreement.
- 5.2 OMFED shall not be bound by any printed conditions or provisions in the Service Provider's Bid Forms or acknowledgment of Service Order / Agreement, invoices and other documents which purport to impose any conditions at variance with or supplemental to Service Order / Agreement.

6. Use of Service Order / Agreement Documents & Information

- 6.1 The Service Provider shall not, without OMFED's prior written consent, disclose any approved plan, drawing, pattern, sample or information furnished by or on behalf of OMFED in connection therewith, to any person other than a person employed by the Service Provider in the performance of the Service Order / Agreement. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purpose of such performance.
- 6.2 The Service Provider shall not, without OMFED's prior written consent, make use of any document or information enumerated in Clause 6.1 except for purpose of performing the Service Order / Agreement.

7. Patent Rights, Liability & Compliance of Regulations

- 7.1 Service Provider hereby warrants that the use of the services delivered hereunder will not infringe claims of any patent covering such service and Service Provider agrees to be responsible for and to defend at his sole expense all suits and proceedings against OMFED based on any such alleged patent infringement and to pay all costs, expenses and damages which OMFED may have to pay or incur by reason of any such suit or proceedings.
- 7.2 The Service Provider shall indemnify OMFED against all third-party claims of infringement of patent, trade mark or industrial design rights arising from the services delivered by the Service Provider.
- 7.3 Service Provider shall be responsible for compliance with all requirements under the laws and shall protect and indemnify completely OMFED from any claims/penalties arising out of any infringements.

8. Performance Security

- 8.1 The Service Provider shall furnish Performance Security as per the terms and conditions provided in the Tender document.
- 8.2 The Performance Security shall be for due and faithful performance during the period of execution of the services and is liable for forfeiture in the following cases:
 - If the successful Bidder fails to undertake the work after issuance of LoA, or
 - If the Service Provider abandons the work before its completion or during its extended period, or

- If the work performed by the Service Provider is not as per the Agreement, or
 - On breach of Service Order / Agreement by the Service Provider.
- 8.3 The proceeds of Performance Security shall be appropriated by OMFED as compensation for any loss resulting from the Service Provider's failure to complete his obligations under the Service Order / Agreement without prejudice to any of the rights or remedies OMFED may be entitled to as per terms and conditions of Service Order / Agreement.
- 8.4 Performance Security shall be extended by the Service Provider in the event of delay in completion of work, as defined in the Service Order / Agreement for any reason whatsoever. OMFED's claim period shall remain valid for twelve months after the expiry of the guarantee/warranty/Defect Liability Period or till the satisfactory performance of the objectives of the Service Order / Agreement, whichever is later.
- 8.5 For the avoidance of doubt, it is hereby clarified, that the Performance Security shall not carry any interest.

9. Delivery of Services

- 9.1 Delivery of the Services shall be made by the Service Provider in accordance with terms specified in the Special Conditions of Contract.
- 9.2 The delivery terms are binding and essential and consequently, no delay is allowed without the written approval of OMFED. Any request concerning delay will be null and void unless accepted by OMFED.

10. Terms of Payment

- 10.1 Details about the method of payment, payment terms, billings, place of payment, etc. under this Service Order / Agreement shall be specified in the Special Conditions of Contract.
- 10.2 All payments shall be made in INR only and shall be made directly to the bank account of the Service Provider.
- 10.3 No advance shall be paid and no letter of credit shall be issued.
- 10.4 Payment shall be released within 30 (thirty) days after receipt of relevant documents complete in all respects and successful Completion Certificate issued by under section of OMFED.
- 10.5 No interest charges for some reasonable delay in payments, if any, shall be payable by OMFED.
- 10.6 Defective bills shall be returned to the Service Provider within 7 (seven) working days. No payment shall be made on defective/incomplete bills.

11. Subcontracting /out-sourcing/ sub-letting/ Assignment

- 11.1 The Service Provider is not allowed to subcontract, outsource, sub-let or assign the contract and scope of services, either partly or wholly, without the written approval of the designated official or Nodal Officer from OMFED side for the services for which such subletting is sought. However, OMFED management reserves the full right to refuse any such approval to the Service Provider without being bound to provide any reason or rationale for such decision. Provided, nevertheless, that any such consent shall not relieve the Service Provider from any obligation, duty or responsibility under the Service Order / Agreement.

12. Cancellation of Service Order / Agreement

- 12.1 If the Service Provider fails to fulfil the terms and conditions of the Service Order /

Agreement which are spelt out in the Tender Document, OMFED shall have the right to terminate the Service Order / Agreement and award the total or balance work (if any) to any other Service Provider at the risk and cost of the said Service Provider after giving 30 days' notice to the Service Provider as to why the said work shall not be awarded to another entity at his risk and cost. Further the Service Order/Agreement could be terminated by OMFED if:

- i) There is a force-majeure situation,
- ii) Service Provider has given false declaration or document including affidavit,
- iii) There is conflict of interest between OMFED & Service Provider during the Service Order / Agreement execution,
- iv) The Service Provider defaults in proceeding with the work as per the milestones and/or in complying with any of the terms and conditions, stipulated in the Service Order / Agreement,
- v) The Service Provider or firm or any of the partner represented by the Service Provider, in the subject Service Order / Agreement is adjudged as Insolvent by the concerned authority and further if the Service Provider has been wound up and dissolved,
- vi) The Service Provider assigns/transfers/sub-lets the entire work or a portion thereof without the approval of the Competent Authority,
- vii) The Service Provider offers to give or agrees to give gift or any other consideration tangible or intangible, as inducement or reward for seeking or offering benefits in the Service Order / Agreement as the case may be,
- viii) A court order or an order of a competent statutory forum is received in respect of the Service under consideration of the Service Order / Agreement.

Termination of the agreement shall not relieve the Service Provider of any obligations which expressly or by necessary implication survives termination. Except as otherwise provided in any provisions of the agreement expressly limiting the liability of the Service Provider, shall not relieve the Service Provider of any obligations or liability for loss or damage to OMFED arising out of or caused by acts or omissions of the Service Provider prior to the effective date of termination or arising out of such termination. Even if Service Order / Agreement is terminated/abandoned prematurely, OMFED reserves the right to deduct/impose penalties and shall remain indemnified, till such time all or any such claims are suitably addressed. OMFED reserves the right to appropriate the Performance Security, as a genuine pre-estimated damages suffered by OMFED for the non-performance by the Service Provider. OMFED may also impose further penalties on the Service Provider such as holidaying/banning/blacklisting for a specific period of time. In all such cases, the decision of OMFED shall be final. This notice shall be in accordance with **Clause 12.1**.

13. Right to risk for procurement / rendering of services

If the Service Provider fails to fulfill the terms and conditions of the Service Order / Agreement, OMFED shall have the right to procure the services from any other party for the execution/ completion of the scope of services under the Service Order / Agreement and recover from the Service Provider all charges/expenses/losses/damages which may be suffered by OMFED, at the risk and cost of the Service Provider, after giving 15 (fifteen) days of notice to the Service Provider. This will be without prejudice to the rights of OMFED for any other action including termination of the Service Order/ Agreement.

14. Force Majeure

14.1 "Force Majeure Event" means any event or circumstances or combination of events or circumstances which:

- A. Are beyond the reasonable control of the Party affected by such event (the

Affected Party); and cannot by exercise of reasonable diligence, reasonable precautions and reasonable alternative measures (where sufficient time to adopt such precautions or alternative measures before the occurrence of such event or circumstances is available), be prevented or caused to be prevented;

- B. Materially and adversely affects such Party's performance of its duties or obligations or enjoyment of its rights under this Service Order / Agreement.
- 14.2 As soon as practicable and in any case within 7 (seven) days from the date of occurrence of a Force Majeure Event or the date of knowledge thereof, the Affected Party shall notify the other Party of the same, setting out the details of the Force Majeure Event.
- 14.3 If the Affected Party is rendered wholly or partially incapable of performing any of its obligations under this Service Order / Agreement because of a Force Majeure Event, it shall be excused from performance of such obligations to the extent it is unable to perform the same on account of such Force Majeure Event.
- 14.4 If a Force Majeure Event described above, in the reasonable judgment of the Parties, is likely to continue beyond a period of 6 (six) months or any other period as stipulated in the Bid document, the parties may mutually decide to terminate the Service Order / Agreement or continue the Service Order / Agreement on mutually agreed revised terms.

15. Dispute Resolution

- 15.1 Any dispute, difference or controversy of whatever nature howsoever arising under, or out of, or in relation, to this tender or the Service Order / Agreement (including its interpretation) between OMFED and the Service Provider, and so notified in writing by either party to the other party shall, in the first instance, be attempted to be resolved amicably and the parties agree to use their best efforts for resolving all disputes arising under or in respect of this tender promptly, equitably and in good faith. In the event of any dispute between the parties, it is agreed that a discussion shall be held between the Service Provider and OMFED within 7 (seven) days from the date of reference to discuss and attempt to amicably resolve the dispute. If such meeting does not take place within the 7 (seven) days period or the dispute is not amicably settled within 15 (fifteen) days of the meeting, the dispute, if referred to, shall be decided by the Civil Court of competent jurisdiction at Bhubaneswar only. There shall be no arbitration between the Parties. The provisions of Arbitration & Conciliation Act, 1996 as amended from time to time, shall have no application to the present work.
- 15.2 Governing law and jurisdiction: This Service Order / Agreement shall be construed and interpreted in accordance with and governed by the laws of State and Central Government in force in India. The Courts at Bhubaneswar alone shall have exclusive jurisdiction over all matters arising out of or relating to this Service Order / Agreement.

16. Governing Language

The Service Order / Agreement shall be written in English language as specified by OMFED in the Instruction to Bidders. All literature, correspondence and other documents pertaining to the Service Order / Agreement which are exchanged by the parties shall be written in English language. Printed literature in other language shall only be considered, if it is accompanied by an English translation. For the purposes of interpretation, English translation shall govern and be binding on all parties.

17. Notices

Any notice given by one party to the other pursuant to the Service Order / Agreement shall be sent in writing or by email. A notice shall be effective when delivered or on the notice's effective date, whichever is later.

18. Permits & Certificates

- 18.1 Service Provider shall procure, at his expense, all necessary permits, certificates and licenses required by virtue of all applicable laws, regulations, ordinances and other rules

in effect at the place where any of the work is to be performed, and Service Provider further agrees to hold OMFED harmless from liability or penalty which might be imposed by reason of any asserted or established violation of such laws, regulations, ordinances or other rules.

19. General

19.1 The Service Provider shall be deemed to have carefully examined all Service Order / Agreement documents to its entire satisfaction. Any lack of information shall not in any way relieve the Service Provider of his responsibility to fulfill his obligation under the Service Order / Agreement documents.

19.2 The General Conditions of Contract (GCC)-Services shall apply to the extent that they are not superseded by provisions of other parts of the Special Conditions of Contract.

19.3 Losses due to non-compliance of Instructions

Losses or damages occurring to OMFED owing to the Service Provider's failure to adhere to any of the instructions given by OMFED in connection with the contract execution shall be recoverable from the Service Provider.

19.4 Recovery of sums due

All costs, damages or expenses which OMFED may have paid, for which under the Service Order / Agreement, the Service Provider is liable, may be recovered by OMFED (he is hereby irrevocably authorized to do so) from any money due to or becoming due to the Service Provider under this Service Order / Agreement or other Service Orders / Agreements and/or may be recovered by action at law or otherwise. If the same due to the Service Provider be not sufficient to recover the recoverable amount, the Service Provider shall pay to OMFED, on demand, the balance amount.

20. Liability and Indemnity

20.1 Service Provider shall indemnify, defend and hold OMFED harmless against:

- a. any and all third party claims, actions, suits or proceedings against OMFED, for any loss of or damage to property of such third party, or death or injury to such third party, arising out of breach by the Service Provider of any of its obligations under the Service Order / Agreement, except to the extent that any such claim, action, suit or proceeding has arisen due to a negligent actor omission, breach of the Service Order / Agreement, or breach of statutory duty on the part of OMFED, its suppliers and Service Providers, employees, servants or agents; and
- b. any and all losses, damages, costs, and expenses including legal costs, fines, penalties and interest actually suffered or incurred by OMFED from third party claims arising by reason of breach by the Service Provider of any of its obligations under this Service Order / Agreement, except to the extent that any such losses, damages, cost & expenses including legal costs, fines, penalties and interest (together to constitute "Indemnifiable Losses") have arisen due to negligent act or omission breach of the Service Order / Agreement, or breach of statutory duty on the part of OMFED, its suppliers or Service Providers, employees, servants or agents or any of the representations; and
- c. To the extent of the value of free issue materials to be issued till such time the entire Service Order / Agreement is executed and proper account for the free issue materials is rendered and the left over / surplus and scrap items are returned to OMFED. The Service Provider shall not utilize OMFED's free issue materials for any job other than the one contracted out in this case and also not indulge in any act, commission or negligence which will cause / result in any loss/damage to OMFED and in which case, the Service Provider shall be liable to OMFED to pay compensation to the full extent of damage / loss and undertake to pay the same.

20.2 OMFED remains indemnified (even if the Service Order / Agreement ends prematurely) towards all or any obligations due to OMFED by the Service Provider and

shall continue to remain in force till such time all or any such claims are suitably addressed.

21. Publicity & Advertising

Service Provider shall not without the written permission of OMFED make a reference to OMFED or any Company affiliated with OMFED or to the destination or the description of goods or services supplied under the Service Order / Agreement in any publication, publicity or advertising media.

22. Blacklisting

Blacklisting of a business concern/entity or supplier may be resorted to in following cases: -

- i) If the Proprietor or Partner or Director of the business concern/entity is convicted by a Court of Law, following prosecution under the normal process of Law for an offence involving moral turpitude in relations to business dealings;
- ii) If security consideration of the state i.e. any action that jeopardize the security of the State.
- iii) If there is justification for believing that the Proprietor or Partner or Director of the Concern/entity has been guilty of malpractices such as bribery, corruption, cheating, fraud and tender fixing etc.
- iv) If the business concern/entity refuses / fails to return OMFED's dues without adequate cause;
- v) If the business concern/entity is blacklisted by any Department of the Central Government / State Government/Central PSU/State PSU.
- vi) If the business concern/entity is a concern/entity evader of Central / State taxes / duties for which OMFED has received notice from the concerned department of Central / State Govt.
- vii) If violation of important conditions of contract/agreement.
- viii) If submission of false/fabricated/forged documents for consideration of a tender

23. Statutory and Legal requirements

- 23.1 The Service Provider shall comply with all the statutory and legal requirements and requirements for obtaining license under the Contract Labour (Regulation and Abolition) Act 1970 and shall bear all necessary expenses in this regard.
- 23.2 The Service Provider shall abide by the applicable statutory provisions on minimum wages, payment of wages, EPF, ESI, gratuity, retrenchment, leave and leave encashment, health care, uniform and compensation to its employees and workmen.
- 23.3 The Service Provider shall not take any action in relation to handling of its personnel which may adversely affect the existing labour relations of OMFED. The Service Provider has to maintain close liaison and cordial relations with the local people and the unions.

24. Safety

- 24.1 OMFED may from time to time audit the safety practices employed by the Service Provider and the Service Provider shall comply with the recommendations/ directions made by OMFED as a result of such audit.
- 24.2 During the course of the contract period, if any accident occurs whether major or minor in which the Service Provider or its employees are involved or are responsible, the Service Provider shall immediately inform OMFED without any delay.
- 24.3 The Service Provider shall indemnify OMFED from any liability falling on OMFED due to any accident, whether minor or major, or by any act of commission/omission by the Service Provider or by its representatives or by its employees. If OMFED is made liable for any such claim by the court of law or any other authority, the same shall be

reimbursed to OMFED by the Service Provider as if OMFED has paid on their behalf. The same shall be adjusted from the invoices payable by OMFED to the Service Provider, if not paid within a period of 30 (thirty) days of such payment being made by OMFED.

Annexure 2: Special Conditions of Contract

1. General

These Special Conditions of Contract delete, amend or add to the clauses in the General Conditions of Contract. In the event of an inconsistency, these Special Conditions of Contract shall supersede or take precedence over the General Conditions of Contract to the extent of that inconsistency.

2. Scope of work, service requirements including technical parameters

2.1 Background

The Orissa State Cooperative Milk Producers' Federation Limited (OMFED) is an apex level Dairy Cooperative Society registered under Cooperative Society Act – 1962. It has come into existence to integrate the milk producers in rural areas with consumers in the urban areas with an enterprising aptitude.

OMFED's main activities include promoting, production, procurement, processing and marketing of milk, milk products and subsidized cattle feed for economic development of the rural farming community in Orissa. With a large number of employees spread across multiple locations, OMFED is attempting to implement CCTV Surveillance system for Arilo Dairy, OMFED. Currently Arilo Dairy is facing lot of security concern which is impacting the daily activities. To address these concerns, OMFED has decided to implement CCTV Surveillance system to overcome the security challenges and to monitor the same centrally.

The CCTV Surveillance system shall not only help Arilo Dairy, OMFED to streamline its security process but also provide a secure and reliable system for monitoring movement. OMFED is looking out for vendors who can provide a robust and reliable solution that meets the functional and technical requirements outlined in this Tender Document. The selected vendor shall be responsible for the supply, implement, and provide maintenance of the system. The project implementation is expected to be completed within the timeline as mentioned in the below section. The vendor shall be required to provide training to OMFED's staff on the usage and maintenance of the system. Post-implementation support and maintenance shall be required for a period of 5 years from the date of CCTV Surveillance System Go-live.

2.2 Implementation Scope

It is intended to have the complete end-to-end solution to implement CCTV Surveillance System. The selected vendor shall be required to perform the complete scope. The following is the detailed scope of work. The same is inclusive and not exclusive in nature.

- a. The vendor is required to supply, install, configure, and maintain the CCTV Surveillance System for Arilo Dairy, Cuttack as per the specifications/ features mentioned in the tender.
- b. The CCTV installation process will be carried out in specific locations specified by OMFED.
- c. The specified places will be informed before the installation activity will commence.
- d. All the CCTV Surveillance System should have night vision capability.
- e. The video management system shall have the capability to connect unlimited number of cameras, recording servers and clients to be connected to management server across multiple sites. The video management system shall include a distributed architecture allowing clients on the host system with the user rights to view video.

- f. Sources on Mobile app/Website from a remote location.
- g. Control room setup for a cluster of cameras with recording and monitoring in a distributed architecture for the total surveillance system.
- h. Recording the videos of all the cameras on 24x7 basis @HD or better for 60 days with option to increase the storage duration to 90 days or more.
- i. For storage of the videos, the solution should include the servers/storage with the help of Network Video Recorder (NVR) or Network Attached Storage (NAS)/ Encoders/Decoders/ Client work stations etc. to make a complete functional open IP based CCTV system.
- j. The System should facilitate viewing of live and recorded images and controlling of all cameras by the authorized users simultaneously without any degrading in quality. System should provide database connectivity, reporting, and communication protocols.
- k. The feed from different locations should go to the Centralized Command and Control Room, where the number of viewing screens (Video Wall) will be installed, number of cameras to be simultaneously viewed on Video Wall.
- l. The CCTV Surveillance System shall work 24*7*365 without any breakdown.

2.3 Technical Specifications

5MP WDR Network IR Vandal Dome Camera - 50 Mtr.	
Feature	Specification
Image Sensor	1/2.7" 5Megapixel progressive CMOS (0.9407 centimetres)
Minimum Illumination	0.005 lux@F1.4 (Color, 30 IRE) 0.0005 lux@F1.4 (B/W, 30 IRE) 0 lux (IR on)
Effective Pixels	2960 (H) × 1668 (V)
Shutter Speed	Auto/Manual, 1/3 s~1/100000s
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Lens	3.6mm (2.8mm, 6mm optional)
Mount Type	M12
Max. Aperture	F1.4
Iris Control	Fixed
DORI Distance	3.6mm– 85.4m (Detect) 34.2m (Observe) 17.1m (Recognize) 8.5m (Identify) 2.8mm– 63.6m (Detect) 25.4m (Observe) 12.7m (Recognize) 6.4m (Identify) 6mm– 124.0m (Detect) 49.6m (Observe) 24.8m (Recognize) 12.4m (Identify)
Gain Control (AGC)	Auto
Close Focus Distance	2.8mm: 1.1 m, 3.6mm: 1.7 m, 6mm: 3.3 m
S/N Ratio	>56dB
Video Compression	H.265; Smart H.264+; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)
Angle of View	2.8mm: Horizontal: 111°; Vertical: 58°; Diagonal: 132° 3.6mm: Horizontal: 92°; Vertical: 45°; Diagonal: 110° 6mm: Horizontal: 57°; Vertical: 30°; Diagonal: 65°
Video Streaming	Main stream: 2880 × 1620@(1–20)fps/ 2960 × 1668@(1–20)fps/ 2688 × 1520@(1–25/30fps) Sub stream 1: 704 × 576@(1–25fps)/ 704 × 480@(1–30fps) Sub stream 2: 1920 × 1080@(1–25/30fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity
Back Light Compensation	BLC / HLC / WDR (120dB)

Mirror	Support
Resolution	5M (2880 × 1620/2960 × 1668); 4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048×1536); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704×480); CIF (352 × 288/352 × 240); VGA (640 × 480)
Motion detection	OFF/ON (4 areas, rectangular)
Privacy Mask	4 areas
ICR	Auto (ICR)/Colour/B/W
ROI	Support (4 areas)
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Audio	Built-in Mic
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
Alarm IN	1 channel in: 5mA 3V–5V DC
Alarm Out	1 channel out: 300mA 12V DC
Bit Rate	H.264: 3 Kbps–8192 Kbps, H.265: 3 Kbps–8192 Kbps
Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP; ONVIF (Profile S/Profile G/Profile T); CGI; Bonjour; Milestone; Genetec
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
SDK and API	Support
Scene Self-adaptation (SSA)	Support
Smart Detection	Tripwire, intrusion (support the classification and accurate detection of vehicle and human)
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
AI SSA	Support
AFSA	Support
Quick Pick	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events
OTA (Online Device Upgrade)	Support
Cloud Health Monitoring System (HMS)	Support
Defog	Support
Alarm Event	No SD card; SD card full; SD card error; service life warning (only supported by CP Plus card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; external alarm; SMD; safety exception
Ethernet	RJ-45 (10/100Base-T)
User/Host	20 (Total bandwidth: 64Mbps)
Smart Phone	iPhone, iPad, Android Phone
IR	IR Range of 50 Mtr., Smart IR
No of IR LEDs	3
Browser	IE: IE11, Chrome, Firefox

Micro SD Card	Micro SD card (support max. 512GB)
Storage	FTP; SFTP, NAS
Operating Temperature	-40°C to +60°C (-40°F to 140°F)
Storage Temperature	-40°C to +60°C (-40°F to 140°F)
Operating Humidity	Less than 95% RH
Power Source	12 VDC/PoE (802.3af)
Power Consumption	Basic: 4 W (12 VDC); 4.9 W (PoE) Max. (WDR + IR intensity + Intelligence): 8.5 W (12 VDC); 9.7 W (PoE)
Weatherproof Standard	IP67, IK10
Casing	Metal

5MP Network IR Motorized Bullet Camera - 60Mtr.	
Feature	Specification
Image Sensor	1/2.7" 5MP Progressive scan CMOS(0.9407Cm)
Effective Pixels	2592 (H) × 1944 (V)
Minimum Illumination	0.005 lux@F1.5(Colour, 30 IRE) 0.0005 lux@F1.5(B/W, 30 IRE) 0 lux (Illuminator on)
Shutter Speed	Auto/Manual, 1/3s~1/100000s
ROM	128MB
RAM	512MB
Max. Aperture	F1.5
Lens Mount	φ14
Gain Control(AGC)	Auto/Manual
Lens Type	Motorized lens
Iris Type	Fixed
Lens	2.7 mm–13.5 mm
Close Focus Distance	0.8m
DORI Distance	W: 64.4m(Detect) 25.8m(Observe) 12.9m(Recognize) 6.4m(Identify) T: 221.4m(Detect) 88.6m(Observe) 44.3m(Recognize) 22.1m(Identify)
White Balance	Auto/ natural/ street lamp/ outdoor/ manual/ regional custom
Back Light Compensation	BLC / HLC / WDR (120dB)
Stream Capability	2 Streams
Video Compression	H.265; Smart H.264+; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Pan, Tilt, Rotation	Pan: 0°–360° Tilt: 0°–75° Rotation: 0°–360°
Angle of View	H: 100°–30° V: 72° –23° D: 134° –38
Smart search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
S/N Ratio	>56 dB
Resolution	5M (2592 × 1944); 4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Frame Rate	Main stream: 2592 × 1944@(1–20 fps)/2688 × 1520@(1–25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps)
Noise Reduction	3D NR
Motion detection	OFF/ON (4 areas, rectangular)

Privacy Mask	4 areas
ICR	Auto (ICR)/Colour/B/W
ROI	Supported (4 areas)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps
Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP ONVIF (Profile- S, G, T); CGI; Milestone
SDK and API	Supported
Abnormality detection	Motion detection, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection
Ethernet	RJ-45 (10/100Base-T)
Event Trigger	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus detection; external alarm; SMD; safety exception
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lock-out; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Perimeter Protection	Intrusion, Tripwire (the two functions support the classification and accurate detection of vehicle and human)
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)
SMD Plus	Supported
IR	IR Range of 60 Mtr.
IR Control	Auto; Manual
IR Number	4 (IR LED)
Scene Self-adaptation (SSA)	Supported
Audio Input	1 Ch. (RCA port)
Audio Output	1 Ch. (RCA port)
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
Alarm IN	1 Ch. in: 5 mA 3–5 VDC
Alarm Out	1Ch. Out: 300mA 12VDC
Mirror Function	Supported
Storage	FTP, SFTP, NAS
Micro SD	Micro SD card (Max. 512GB)
User/Host	20 (Total Bandwidth: 64M)
Browser	IE, Chrome, Firefox
Smart Phone	iPhone, iPad, Android Phone
Weatherproof Standard	IP67
Operating Temperature	–30 °C to +60 °C (–22 °F to +140 °F)
Storage Temperature	–40 °C to +60 °C (–40°F to +140°F)
Humidity	≤95%
Power Source	12V DC/PoE(802.3af)
Power Consumption	Basic: 3.3 W (12 VDC); 4.2 W (PoE) Max (WDR + IR intensity + Intelligence on): 7.8 W (12 VDC); 9.7 W (PoE)
Casing	Metal

4MP WDR 45x Laser Network PTZ Camera	
Feature	Specification
Image Sensor	1/2.8" PS CMOS Image Sensor (0.9071cm)
Minimum Illumination	Color: 0.005 lux@F1.6, B/W: 0.0005 lux@F1.6, 0 lux (laser light on)
Effective Pixels	2560 (H) × 1440 (V), 4MP
RAM & ROM	1GB & 4GB
AGC control	Auto / Manual
S/N Ratio	≥ 55dB
Focal Length	3.95mm - 177.75mm
White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Focus Control	Auto; semi-auto; manual
Max. Aperture	F1.6–F4.95
DORI Distance	3555m(Detect) 1404.2m(Observe) 711m(Recognize) 355.5m(Identify)
Close Focus Distance	0.1m-1m
Angle of View	H: 63.2°–1.8°; V: 37.6°–1.1°; D: 70.8°–2.1°
Electronic Shutter	1 s–1/30,000 s
Iris Control	Auto; manual; iris prior
Day/Night	Colour; B/W; Auto; Electronic
Back Light Compensation	BLC / HLC / WDR (120dB)
Optical Zoom	45x
Digital Zoom	16x
Pan Travel	0°~360° endless, Pan Speed: 0.1° ~ 200°/sec
Tilt Travel	-20° ~ +90° auto flip 180°, Tilt Speed: 0.1° ~ 120°/sec
Manual Control Speed	Pan: 0.1°/s–200°/s; Tilt: 0.1°/s–120°/s
Presets	300
Preset Speed	Pan: 240° /s; Tilt: 200° /s
Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view
Special Features	Up to 300 Presets, 5 Pattern, 8 Tour (up to 32 presets per tour), 5 Auto Scan
IR Range	Laser Range of 250Mtr.
IR Number	7
IR On/Off Control	Zoom Prio; Manual; Auto; Off
Idle Motion	Pattern; Preset; Scan; Tour
Video Compression	H.265; H.264H; H.264B; Smart H.264+; H.264; MJPEG (Sub Stream)
Stream	Triple Stream
Video Streaming	Main stream: 4M/3M/1080p/1.3M/720p (1–25/30 fps) Sub stream 1: D1/VGA/CIF (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p (1–25/30 fps)
Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723
Motion Detection	Support
ROI	Support
RS-485	1 (baud rate: 1200 bps–115200 bps)
Audio Streaming	1/1 channel In/Out
Alarm I/O	7/2 channel In/Out
Alarm Linkage	Capture; recording; send email; preset; tour; pattern; alarm digital output
Auto Tracking	Support
IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; human alarm classification; linkage tracking

Streaming Method	Unicast / Multicast
Intellicheck	Support
SMD 4.0	Support
Face Detection	Supports face detection, optimization, capturing pictures, uploading high-quality face snapshots and enhancing face images. Attribute Extraction is also supported, where 6 attributes and 8 expressions can be detected. Face cutout is also offered, where you can cutout one face at a time and customize the size to be a one-inch photo. The supported methods for capturing snapshots are real-time capturing, quality first, and selecting a preferred image among a group of snapshots
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection
Networking	1×RJ-45 (10/100 Base-T)
Protocols	FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP; CGI; SDK; ONVIF (Profile S&G&T)
Browser	IE 9 and later versions Chrome 41 and later versions Firefox 52 and later versions Safari 10 and later versions
Operating Temperature	-40°C ~ 70°C (-40°F ~ +158°F)
Operating Humidity	≤ 95%
Smart Phone	iPhone, iPad, Android Phone
Memory Card	Micro SD card (512 GB)
Storage	FTP/SFTP; NAS
Weather Proof Standard	IP67; TVS 6000 V lightning proof; surge protection; voltage transient protection
Dimension	382 mm × Φ239.8 mm (15.04" × Φ9.44")
Power Source	36V DC, 2.23 A ± 25%; Hi-PoE
Power Consumption	Basic: 13 W; Max: 27 W (IR + PTZ)

24HDD Embedded Video Storage (NAS)

Feature	Specification
Processor	64-bit high-performance multi-core processor
Controller	Dual controller
Operating System	Embedded LINUX
Cache	8 GB by default (extendable to 32 GB)/controller
IP Camera Input	256 Channel
User Interface	Web
SAS	1 × SAS (up to 12 Gbps)/controller
Network Port	1 × 1-GbE management port/controller; 4 × 1-GbE LAN ports/controller
Network Port Extension	4 × 1-GbE LAN ports/controller (optional) 2×10-GbE optical fibre ports/controller (optional)
eSATA	1 × eSATA/controller
RS-232	1 × DB9 /controller
USB	2 × USB3.0 and 2 × USB2.0/controller
HDMI	1 × HDMI/controller, only for debug
HDD Interface	24 slots, SATA; SAS Max.16TB/HDD hot swapping, CMR, support enterprise-grade HDD
Disk Bay	24

RAID	RAID 0/1/5/6/10/50/60; (with enterprise-grade HDD)
Disk Group	Support
iSCSI	Supports client and Server
Network Disk	Supports client
Record Management	Supports record control (continuous, event-based, scheduled, scheduled & event-based)
Storage Pool	Support
Thermal Camera Compatibility	Works with camera for fire alarm, temperature alarm, temperature difference alarm, hot spot, cold spot, smoking and calling
AI by Camera	Face detection, face recognition, IVS (abandoned object, missing object, loitering, crowd gathering , parking, fence-crossing, fast moving, tripwire and intrusion), video metadata (human, vehicle, non-motor vehicle), vehicle recognition, people counting (fisheye or people counting camera required), face & body detection, crowd distribution, smart thermal (call detection, visible channel- smoking detection, thermal channel-smoking detection)
People Counting	Works with camera for tripwire people counting, regional people counting and queue people counting
Video Direct Storage (Private Protocol)	Incoming: 256-channel (bandwidth: 512 Mbps) Recording:256-channel (bandwidth: 512 Mbps) Outgoing: 256-channel (bandwidth: 512Mbps) Playback: 16-channel (bandwidth: 32Mbps)
Video Direct Storage (ONVIF)	Incoming: 256-channel (bandwidth: 512 Mbps) Recording: 256-channel (bandwidth: 512 Mbps) Outgoing: 256-channel (bandwidth: 512 Mbps) Playback: 16-channel (bandwidth: 64 Mbps)
Video Direct Storage (Auto Register)	Incoming: 256channel (bandwidth: 512 Mbps) Recording:256-channel (bandwidth: 512 Mbps) Outgoing: 256-channel (bandwidth: 512 Mbps) Playback: 16-channel (bandwidth:32Mbps)
Picture Direct Storage	Incoming: 120-channel (550 KB/picture) Recording:120-channel (550 KB/picture) Outgoing: 120-channel (550 KB/picture)
Video Direct Storage (International Protocol)	Incoming: 256-channel (bandwidth: 512 Mbps) Recording:256-channel (bandwidth: 512 Mbps) Outgoing: 256-channel (bandwidth: 512 Mbps) Playback: 16-channel (bandwidth: 32 Mbps)
IPSAN Performance	180-channel × 2 Mbps video stream writing and 12-channel × 2 Mbps video playback (I/O size of VMS is 64 KB)
Bullet-PTZ Smart Track	Works with camera for manual tracking, auto tracking, click positioning and select positioning
Fisheye DE warp	Supports dewarping for fisheye cameras
Multi-channel Playback	Web playback, max. 16-channel playback
Record Mode	Auto record; manual record; search video detection; IO alarm; thermal imaging; intelligent event; all record file
Storage	Internal HDD and network disk
Backup	HDD, peripheral USB storage device
Playback Function	1. Play, pause, stop, fast forward, fast backward, reverse play, frame by frame 2. Full-screen, backup (clip; file), snapshot, digital zoom, audio on; off
General Alarm	Motion detects; tampering; IPC external alarm
Anomaly Alarm	IPC offline alarm; storage error; HDD full; video frame loss; SSD exception; IP conflict; MAC conflict; login lock; fan malfunction; no HDD; network security exception; power exception; disk health exception; RAID exception; storage pool exception; temperature alarm; share service

Alarm Linkage	Record; snapshot (full image); alarm uploading; remote device alarm output; camera audio; buzzer; log; preset; email, smart tracking and warning light. Disarming alarm linkage action by period or one-click sync disarm config with channels
Protocols	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; iSCSI; FTP ; SMB; NFS; ONVIF (Profile S); CGI; SDK
Power Redundancy	1+1
Power Supply	100–127V/200–240V AC, 50/60Hz, 5A/2.5A
Fan	Intelligent speed regulation fan
Power Consumption	<120 W (without HDD, idling) <500 W (all HDDs connected)
Operating Temperature	0°C to 45°C (+32°F to +113°F)
Operating Humidity	10%–80% (RH) (non-condensation)
Operating Altitude	≤5000 m

VMS Specifications	
S.No.	Description
1	It can be easily expanded up to 20,000 channels and 2 GB storage capacity through the distributed system.
2	Supports hot standby and N + M redundancy that enable the failover servers to serve as backup to primary recording and event servers.
3	Allows integration of other systems and devices via API/SDK/ ONVIF/Bridge.
4	It is an AI-based search feature enabling intelligent retrieval of humans and vehicles in time and space.
5	The archive can uniformly manage case-related events, pictures, videos, and documents, and realize cross-event tracking
6	Configure the data storage duration of logs, alarms, POS, face recognition and vehicle records, etc.
7	Time synchronization: Timed synchronization and device connection synchronization.
8	Email server configuration, Active directory configuration, Supports importing HTTPS certificate, Set POS end sign, set device login mode, record remote logs, Supports independent database deployment
9	Automatically back up system database by day, week, or month., Manually back up system database, Restore system database from server or local files
10	Event synchronization: Bridge acts as a middleware to connect to and receive events from third-party systems, and to configure event schemes on the platform to trigger event linkages.
11	Data synchronization: Connect to the database of a third-party system and synchronize the attendance and access control records to the database of the third-party system.
12	System Should Support hot standby for main server, supports distributed deployment, Supports N + M redundancy, supports cascading deployment, Supports LAN and WAN deployment, Supports independent database deployment
13	Device Management: Add devices by auto search, IP, Domain, IP segment, auto registration (for 3G, 4G and DHCP devices)
14	Add third-party devices via ONVIF protocol, Import devices in batches by template.
15	Bind associated cameras: Link cameras for alarm video display, configure encoder parameters including image, video, snapshot, OSD and audio.
16	Configure intelligence settings for intelligent channels such as IVS, face detection, people counting, and heatmap these features should be in camera's
17	Role & User: Three types of roles: Super administrator, administrator, common role
18	Manage the user's permissions by role (device permissions, control permissions, and menu permissions).
19	User can be assigned with roles to obtain corresponding permissions, forced password change at first login, User can be restricted by the MAC and expiry information, User can be locked.
20	Storage Management: Supports edge storage and central storage
21	Central storage: Extend storage via iSCSI
22	Disk quota: Group disks, and cameras can be allocated to different disk groups
23	Record Plan: Configure recording plans for channels, configure storage destination: Centre, device (device recording supports only main stream), Configure recording stream type
24	Create recording plan by time template: All-day template, weekday template, weekend template and custom template, Configure centre recording storage duration, Back up recorded videos from devices to the centre
25	Face Watch List: Face watch list management, add faces one by one, import faces from personnel list in batches, send face watch list to face recognition devices, and configure similarity. Supports searching the face database or snapshot records for target faces by uploading a face image, Supports face database management

26	Live View : View real-time video, Common layout (1, 4, 6, 8, 9, 13, 16, 20, 25, 36, 64) and customized layout, Manual recording (store on PC or central storage), Digital Zoom, Audio Talk, Set alarm window, Restore face image from face privacy masking, Displays map in live view, Up to 4 live view tabs, Adjust the video image, Resource tree: Video channel, face recognition channel, Real-time monitoring of face recognition events, metadata events, entrance snapshot events, and access control events, Displays event snapshots over live video, Pause refresh, and clear event list, Open more than one channel at the same time. Up to 16 channels are supported, three stream types: HD (high definition), SD (standard definition) and FL (fluency)
27	Playback : Play back video recordings from devices or central storage, Video filter: Normal, motion, alarm, Reverse playback of central and device video, Synchronous play, Digital zoom, Slow and fast forward (up to 64X and 1/64X), Play back video recordings frame by frame, Lock or mark important recordings for central storage, Download the video in avi, dav, mp4 and asf formats, Adjust the video image, Common layout (1/4/6/8/9/13/16/20/25/36/64) and custom layout
28	Map: Google online map, Google offline map and raster map, Up to 8-level sub map, View the live or recorded video on the map, Area or distance measurement on GIS map
29	Event Management: Event type: Device, video channel, alarm input channel, access control channel, soft trigger event, and more, Event scheme: All-day template, weekday template, weekend template and custom template, Event Priority: Low, medium, high, Linkage: Recording, snapshot, live video, alarm output, audio and light, Real-time and history event information, Acknowledge the event, Forward the event to relevant user
	Feature
	Specification
	Organization, User and Role
	Organizations
	10 levels; up to 999 organizations in total
	Roles (User Permissions)
	100
	Users
	200 online users and 2,500 total users
	Central Recording
	Up to 3,000 video channels
	Event Rules
	Up to 3,000 event sources
	Map
	Hierarchies
	8 hierarchies
	Size of Offline GIS Map Package
	500MB
	Number of Raster Maps
	Up to 256
	Number of Submaps per Map
	Up to 32
	Maximum Size of Raster Map
	15MB
	Raster Map Resolution
	8100 × 8100
	Number of resources on GIS Map
	Up to 300
	Number of resources per Raster Map
	Up to 300
	Face Management
	Faces
	3,00,000
	Face Watch Lists
	50
	Total Faces
	3,00,000
	Faces per Face Watch List
	50,000
	Data Info
	Event Records
	2,00,00,000
	Face Recognition Records
	2,00,00,000
	Operator Logs
	50,00,000
	Service Logs
	50,00,000
	Single Server (Devices and Channels)
	Video Devices and Channels
	1,000 devices; 2,000 channels

	Face Recognition Devices and Channels	100 devices; 500 channels
	Media Transmission Server (Incoming Bandwidth)	
	Total Incoming Bandwidth per Server	580 Mbps
	Incoming Video per Server	580 Mbps
	Incoming Picture per Server	180 Mbps
	Outgoing Bandwidth	
	Total Outgoing Bandwidth per Server	580 Mbps
	Outgoing Video per Server	580 Mbps
	Outgoing Picture per Server	180 Mbps
	Storage Bandwidth	
	Total Storage Bandwidth per Server	580 Mbps
	Video Storage per Server	580 Mbps
	Picture Storage per Server	180 Mbps
	Playback, Storage and Download	
	Maximum Capacity per Storage Server	400TB
	Total Events	300 per second
	Events without Pictures	300 per second
	Events with Pictures	
	Total Events with Pictures	300 per second (200 Mbps)
	Events with Pictures	50 per second (500 KB per picture)
	Face Capture Events	50 per second (500 KB per picture)
	Multiple Servers (Number of Sub Servers)	
	Sub Servers	Up to 10
	Total Devices	20,000
	Video Devices and Channels	10,000 devices; 20,000 channels
	Face Recognition Devices and Channels	1,000 devices; 5,000 channels
	Total Events	600 per second
	Events without Pictures	600 per second
	Total Events with Pictures	600 per second
	Events with Pictures	500 per second (500 KB per picture)
	Face Capture Events	500 per second (500 KB per picture)

Video Wall			
Technical specification for 2x2 video wall of 1.74 bezel			complied yes/no
PANEL	Screen Size	55"	
	Panel Technology	IPS	
	Back Light Type	Direct	
	Aspect Ratio	16:09	
	Native Resolution	1,920 x 1,080 (FHD)	
	Refresh Rate	60Hz	
	Brightness (Typ., nit)	500	

	Contrast Ratio	1,000:1	
	Dynamic CR	500,000: 1	
	Colour gamut	NTSC 72%	
	Viewing Angle (H x V)	178x178	
	Colour Depth	10bit, 1.07Billion colours	
	Response Time	8 ms (G to G)	
	Surface Treatment (Haze)	28%	
	Life time	60,000Hrs (Typ.) / 50,000Hrs (Min.)	
	Operation Hours (Hours/Day)	24/7	
	Portrait / Landscape	Yes / Yes	
	CONNECTIVITY	Input	HDMI 2 (HDCP 2.2), DP (HDCP 2.2), DVI-D (HDCP 1.4), Audio In, RS-232C In, RJ45 (LAN), IR In, USB 2.0 Type A
Output		DP Out (Input: HDMI / DVI / DP), Audio Out, RS-232C Out, RJ45 (LAN)	
MECHANICAL SPECIFICATION	Bezel Colour	Black	
	Bezel Width	B2B: 1.74mm (Panel Bezel to Panel Bezel), 1.3mm(T/L), 0.44mm(B/R) A2A: 2.49mm (Active area to Active area), 1.75mm(T/L), 0.74mm(B/R)	
	Weight (Head)	18.8 Kg	
	Monitor Dimension (W x H x D)	1,212.2 × 683.0 × 86.9 mm	
KEY FEATURE	HW	Internal Memory 8 GB, Sensor (Temperature Sensor, BLU Sensor, Acceleration (Gyro) Sensor), Local Key Operation	

Server	
Feature	Compliance
<p>Hardware for Server (Recommended)</p> <ul style="list-style-type: none"> • CPU - Intel Xeon Silver 4114@ 2.2GHz 10 Core Processor • Memory - 16GB • System Disk - 7200 RPM Enterprise Class HDD 1TB, 500 GB free for EVMS Pro • Storage Disk - 7200 RPM Enterprise Class HDD • Ethernet Port - 4 Ports@1000 Mbps • Genuine Windows • 24 X 7 Working <p>Client:</p> <p>Hardware for PC Client (Recommended)</p> <ul style="list-style-type: none"> • CPU - Intel Core i7, 64 bits 4 Core Processor • Memory - 16GB • Graphics Card - GeForce GTX 1060 3GB (Discrete Graphics Card) • Hard Drive Capacity - 200 GB free space for Client • Ethernet Port - 1,000 Mbps • Windows Genuine 	

65 Inch Display	
Technical specification	
Feature	Specifications
Display	65-inch Display, 4K
Size	1592 x 838 x 127 mm Product Dimensions
TV Type	Smart TV
Connectivity	3 USB Ports, 1 Lan port
Performance	16 GB Storage
Operating System	Android TV
Audio	20W Speakers
Connectivity	HDCP2.3, USB Drive format support, FAT16/FAT32/Ex FAT/NYFS
HDMI Inputs	4 (2side/2 rear)
Composite Video input	1no
RS-232 Input	1no
Digital Audio Output	1no
Picture	Resolution: 3840x2160, Type: LCD, Backlight type: Direct LED
Picture with Video signal support	
Audio/Headphone output	1 (Rear/Hybrid with Headphone and Subwoofer Out)
USB Ports	3nos
Operating Voltage	230VAC, 50Hz

8-Port Gigabit Ethernet PoE Unmanaged Switch	
PoE Ports	8 x 1000Mbps; RJ45 ports; Max. 30W Output of Single PoE Port
Network Protocol	IEEE802.3, 802.3i,802.3u,802.3x,802.3ab, 802.3u
Switch Capacity	16 Gbps Full duplex
Network Ports	8
MAC Address Table	4K
PoE Standard	IEEE802.3af, IEEE802.3at
PoE Power Budget	123W
Power Consumption	Max power (worst case, all ports used, line-rate traffic)- 130 Watts
Operating Temperature, Humidity	0°C ~ 40°C, 90% maximum relative humidity (RH), non-condensing
Storage Temperature	-20° to 70°C
Certifications	FCC, ICES, ANSIC63, EN61000, CISPR, KN35, CB. IEC 60950-1, UL/cUL Listed; UL60950
Warranty	Must have Lifetime Hardware Replacement warranty with lifetime free latest firmware support and must be replaceable with New Product Only, No refurbished Products.
Certifications	CE , FCC , RoHS, UL

8-port 10/100/1000 Base-T PoE Smart managed switch with 2 Fiber Uplinks	
Physical	Must have minimum 8 x 1G Base-T PoE+ ports and 2x1G Base-X SFP ports
	All ports must be PoE+ (30w/port) with minimum 190watt PoE budget or higher
	Must have or higher:- 400 MHz Cortex-A9 Single Core, 512MB RAM, 16MB SPI + 256MB NAND FLASH, 16K MAC Address, 256 VLANs, Switching fabric : 20 Gbps, Throughput : 14.88 Mpps, Multicast groups : 512, 100 shared ACLs
Management	Must have HTTP/HTTPS based GUI, Rmon, Snmpv3
Layer 2 Features	Switch should have the following features from day 1:- IPv4/IPv6 ACLs, IGMP Snooping, Static routing, VoIP, Voice, WiFi, Camera Vlans, 802.3az, LLDP-MED, RADIUS, 802.1X, LACP, IEEE 802.3ad LAGs (5 LAGs with max 8 members in each LAG), Dynamic PoE budget allocation, PoE scheduling, 802.3x, 802.1D/w/s, IGMP snoopingv3, DHCP client and snooping, RMON group 1, 2 ,3 ,9 , MAC lockdown , Broadcast, multicast, unknown unicast storm control , MTBF: 1,509,900 or higher
QoS	Must supports the followings:- ingress and egress Port-based rate limiting, DiffServ QoS, IEEE 802.1p COS, IPv4 and v6 DSCP, Weighted Round Robin (WRR) , Strict priority queue technology, Auto-VoIP VLAN / Auto-Voice VLAN, BPDU Guard
Environment	Operating Temperature must be 0° to 50°C or higher and 90% maximum relative humidity (RH), non-condensing
Certifications	Must have the followings:- CE: EN 55032, EN 61000, EN 55024,VCCI-CISPR 32:2016, Class A RCM: AS/NZS, FCC: 47 CFR FCC Part 15,BSMI, IEC 60950-1:2005, UL listed (UL 1950)/cUL IEC 950/EN 60950, MTCTE from TEC
Warranty	Must have Lifetime Hardware Replacement warranty with lifetime free latest firmware support and must be replaceble with New Product Only, No refurbished Products.

24-port 10/100/1000 Base-T Gigabit PoE+ Smart Managed Switch	
INTERFACE	Should have minimum 24 x 1G base-T PoE+ ports with 4 x 1G Base-X SFP ports
	Should be 1U rack mountable, rack mount kit must be available
CPU AND MEMORY	Must have or better: CPU: 800MHz ARM A55 Single Core, RAM: 512MB, Flash: 64MB, 380W PoE budget
	Should supports the followings:IEEE 802.3 Ethernet, IEEE 802.3u 100BASE-T, IEEE 802.3ab 1000BASE-T , IEEE 802.1Q VLAN Tagging, IEEE 802.3ad Trunking (LACP), IEEE 802.1AB LLDP with ANSI/TIA-1057 (LLDP-MED), IEEE 802.1p Class of Service, IEEE 802.1D Spanning Tree (STP), IEEE 802.1s Multiple Spanning Tree (MSTP), IEEE 802.1w Rapid Spanning Tree (RSTP), IEEE 802.1x RADIUS Network Access Control, IEEE 802.3az Energy Efficient Ethernet (EEE), Auto-voice VLAN, SNMP v1, v2c, v3, IEEE 802.1Q tag vlan,

	<p>minimum 256 vlans, IEEE 802.1p (Class of Service), DSCP - L3 based QoS, Port -based ingress/egress rate limiting, IEEE 802.3ad static or dynamic link aggregation (LACP), DHCP client, Broadcast storm control, Port mirroring (many-to-one), IGMP snooping v1/v2, IEEE 802.1x (RAIUS), Access control list (ACL) based on MAC and IP, SNTP, IEEE 802.1ab LLDP etc.</p>
PERFORMANCE	<p>Must have or better: Packet buffer memory (Dynamically shared across only used ports): 1.5 MB, Forwarding mode: Store-and-forward, Bandwidth: 56 Gbps, Packet forwarding rate (64 byte packet size) 41.67 Mpps, Priority queues: 8, Priority queuing Weighted Round Robin (WRR) , Latency: 1G Copper Latency (64-byte; 1518-byte; 9216- byte frames) : 4.004µs;4.394µs; 4.691µs, 1G Fiber Latency (64-byte; 1518-byte; 9216-byte frames): 4.074µs;4.245µs; 4.551µs, MAC address database size (48-bit MAC addresses) 16K, Multicast groups: 512, Number of IPv4 static routes: 32, Number of IPv6 static routes: 32, Number of ARP cache entries: 512, Number of DHCP snooping bindings: 256, Access Control Lists (ACLs) 100 shared for MAC, IP and IPv6 ACLs, Jumbo frame support: Up to 10K packet size, Acoustic noise level @ 25°C (dBA) (ANSI-S10.12) 26.80 dBA, Mean Time Between Failures (MTBF) 1,252,900 hours or more</p>
L2 SERVICES	<p>Should support: Broadcast, multicast, unknown unicast storm control, IEEE 802.3ad - LAGs (LACP), IEEE 802.3x (full duplex and flow control), IEEE 802.1D, IEEE 802.1w, IEEE 802.1s, IGMP snooping (v1, v2 and v3), MLD snooping support (v1 and v2), IGMP snooping queries, Block unknown multicast, MVR etc.</p>
L3 SERVICES	<p>Should support DHCP client, DHCP snooping, IPv4 and IPv6 static routing, VLAN routing, Host ARP table, Number of IP VLAN interfaces (routed VLANs): 32 etc.</p>
NETWORK MONITORING and SECURITY	<p>Must have 802.1ab LLDP, SNMP v1, v2c, v3, RMON group 1,2,3,9, IEEE 802.1x, Guest Vlan, RADIUS-based VLAN assignment via .1x, MAC-based .1x, RADIUS accounting, Access Control Lists (ACLs) L2, L3, L4, IP-based ACLs (IPv4 and IPv6), MAC-based ACLs, TCP/UDP-based ACLs, MAC lockdown, MAC lockdown by the number of MACs, Control MAC # Dynamic learned entries: 16380, IEEE 802.1x RADIUS port access authentication, Port-based security by locked MAC addresses, Broadcast, multicast, unknown unicast storm control, DoS attacks prevention, Dynamic ARP inspection etc.</p>
QUALITY OF SERVICE (QOS)	<p>Should have: Port-based rate limiting - Egress only, Port-based QoS, Support for IPv6 fields, DiffServ, IEEE 802.1p COS, IPv4 and v6 DSCP, IPv4 and IPv6 ToS, Weighted Round Robin (WRR), Destination MAC and IP, TCP/UDP-based, Strict priority queue technology, Auto-VoIP VLAN / Auto-Voice VLAN - Yes, based on OUI bytes (default database and user-based OUIs) in the phone source MAC address, Auto-VoIP, Auto-Voice Vlan, Auto-Video Vlan etc.</p>
MANAGEMENT	<p>Must have the following features: Password management, Configurable management vlan, Admin access control via RADIUS and TACACS+, IPv6 management, SNTP client over UDP port 123,</p>

	SNMP v1/v2c, SNMP v3 with multiple IP addresses, RMON group 1,2,3,9, Port mirroring, Many-to-one port mirroring: 8, Web-based graphical user interface (GUI), Dual software (firmware) image, Cable test utility, SSL/HTTPS Web-based access (version): Yes (v3), TLS Web-based access (version): Yes (v1.0), File transfers (uploads, downloads): TFTP/HTTP, HTTP upload/download (firmware), Syslog (RFC 3164), USB port for firmware and config upload/download etc.
LED	Must have: Per port Speed, Link, Activity, Per device Power and Fan etc.
POWER CONSUMPTION	Should comply with the followings: worst case if all ports used, full PoE load, line-rate traffic 226W, IEEE 802.3az, Fan count: 2 etc.
ENVIRONMENTAL SPECIFICATIONS	Must have or better: Operating temperature : 0° to 50°C (32° to 122°F), Operating Humidity (relative) : 90% maximum relative humidity (RH), non-condensing
CERTIFICATIONS	Must have: CE, FCC Class A, RCM, ICES Class A, VCCI, KC, BSMI, UKCA, MTCTE, CB, CE, CSA, RCM, KC, BSMI etc.
WARRANTY	Lifetime Hardware replacement warranty, Lifetime free latest firmware support, Replacement with New Product Only No refurbished Products

3.5" SURVEILLANCE HDD	
Technical	Specification
Capacity	8TB
Standard Model Numbers	ST8000VX0002
+Rescue Model Numbers	ST8000VX0012
Interface	SATA 6Gb/s
Cache	256MB
Bytes per Sector	4096
R/V (Rotational Vibration) Sensor	Yes
Drive bays supported	8+
Cameras Supported	Up to 64
Max Sustainable Transfer Rate	230MB/s
3-Year Option With +Rescue Model	Yes
Voltage Tolerance, Inc. Noise (5V)	±5%
Voltage Tolerance, Inc. Noise (12V)	±10%
Startup Power (12V, A)	1.8
Average Operating Power	9.0W
Idle Average	7.6W
Standby Mode	0.6W
Sleep Mode	0.6W
Operating (ambient, min)	5°C
Operating (drive case, max)	60°C
Non-operating (ambient, min)	-40°C
Non-operating (ambient, max)	70°C
Tarnish Resistant	Yes

Load/Unload Cycles	300,000
Non-recoverable Read Errors per Bits Read, Max	1 per 10E15
Mean Time Between Failures	1,000,000hr
Power-On Hours	8760
Warranty, Limited (years)	3
Height	26.11mm
Height	1.028in
Width	101.85mm
Width	4.010in
Depth	147.00mm
Depth	5.878in
Typical Weight	780g
Typical Weight	1.72lb
Carton Unit Quantity	20
Cartons per Pallet	40
Cartons per Layer	8

5 KVA onLine UPS Specification	
CAPACITY	5000VA/5000W
VOLTAGE	220/230/240 VAC
VOLTAGE RANGE	110-280 VAC@50%Load; 176-280 VAC@100% Load
PHASE	SINGLE PHASE WITH GROUND
FREQUENCY RANGE	46Hz - 54Hz or 56Hz - 64Hz
POWER FACTOR	>0.98 @ NOMINAL VOLTAGE (100% LOAD)
INPUT CURRENT HARMONIC DISTORTION THD(i)	>8%
OUTPUT NOMINAL VOLTAGE	220/230/240 VAC
AC VOLTAGE REGULATION	+1% (BATTERY MODE)
FREQUENCY RANGE	Synchronized Range: 50Hz System: 47-53Hz / 60Hz System: 57-63Hz Battery Mode: 50Hz+0.1^ or 60 Hz+0.1%
CURRENT CREST RATIO	3:1 (Max)
HARMONIC DISTORTION	< 3% THD (Linear Load) : < 5% THD (Non-Linear Load)
AC/DC TRANSFER TIME	ZERO
INVERTER to BYPASS TRANSFER TIME	4ms (Typical)
WAVE FORM	Pure Sine Wave on AC Input Power Mode & 54 VDC on Battery Mode
ON FULL CHARGED BATTERY EFFICIENCY	LINE MODE: 95% / ECO MODE: 99.5% / BATTERY MODE: 92.0%
BATTERY VOLTAGE	48V
BATTERY TYPE	Lithium-ion or Lead Acid Battery*
FLOATING CHARGE VOLTAGE	52 VDC (Configurable up to 58 VDC From LCD)
OVERCHARGE PROTECTION	60 VDC
CHARGING CURRENT (MAX.)	60 A (Configurable 10A / 20A / 30A / 40A / 50A / 60A)

	From LCD)
LCD PANEL	Load Level, Battery Level, AC Mode, Battery Mode, Bypass Mode and Fault Indicator Via LCD
BATTERY MODE: Sounding every 5sec	LOW BATTERY: Sounding every 2 Sec. OVERLOAD: sounding every Sec. FAULT: Continuously
COMMUNICATION INTERFACE	RS-232 and USB. SNMP Card / MODBUS Card (Optional)

1 KVA Line Interactive UPS Specification	
Capacity	1000VA/600W
Input Voltage Range	140 V ~ 300 VAC
Frequency	50 Hz ± 10%
Output Voltage	230 VAC Nominal
Transfer Time	Typical 4~8ms
Waveform (Battery Mode)	Modified Sine Wave
Battery Type	Sealed Maintenance Free
Charging Time	6~8 Hours recover to 90% capacity
Battery Rating	SMF 12V /7AH x 2 Battery
Operating Temperature	0°C-40°C;
Relative Humidity	0 to 90% non-condensing
Noise Level	< 40dB

4U Outdoor Rack
4U DVR/NVR Outdoor Rack
DVR/NVR walls Mount is specially designed to safeguard our DVRs/NVRs from Theft.
Basic frame: CRCA (MS SHEET) 0.8mm thickness.
Construction: Welded.
Front plain door with key lock and gasket.
Cooling fans provision on Left and Right side.
Plain top with extension on 3 sides (LH, RH & Front).
Bottom with 2nos. Cable Entry/Exit cut-outs with rubber protection.
Wall/Pole mount with brackets.
IP55 Rated (Dust proof, Rust proof & Rain water protected).
Standard Finish: Power Coated RAL 7035 PP (Light Grey).
Dimension: 500 x 350 x 240mm.
Industry leading design.

2.4 Other Requirements

- a. The solution must have centralized application and database.
- b. All the CCTV Camera should be visible from the central console. The console should indicate the status of each and every CCTV Cameras with latest images/footages.
- c. The solution should have capability to integrate with other surveillance systems of different brands with the objective of enhancing safety & security in the Arilo Dairy Campus & Other Units wherever applicable.
- d. OMFED will provide the necessary infrastructure support for device installation at the specified

locations and to connect through OMFED intranet and internet.

- e. The solution proposed should work with connectivity from any operator. It would be the responsibility of the vendor to configure/tune the device to operate and interchange the data. The non-performance of devices due to network issue will not be considered unless it is genuine.
- f. At the respective sites, OMFED will provide the space for mounting the devices.

3. Delivery period and Milestone

The vendor shall complete the Implementation and configuration of the CCTV Surveillance System as well as achieve “Go-Live” for Arilo Dairy, OMFED within a timeframe as mentioned below from the date of issue of LoA.

Sl. No.	Milestone	Time for Completion (in Weeks)
1.	Project Start	T= Date of Agreement
2.	H/W Installation	T+4
3.	System testing and validation	T+6
4.	Go-Live of CCTV in Arilo Dairy	T+8

Note – The above schedule is indicative. The detailed time schedule for Arilo Dairy, OMFED shall be finalized in joint consultation between the Vendor and OMFED. However, the overall timeline of achievement of “Go-Live” for CCTV Surveillance System as mentioned above shall remain fixed.

4. Payment terms

4.1 The place of payment shall be Head Office, OMFED. Invoices shall be placed to, IT Division for verification & processing.

4.2 Payment Schedule

4.2.1 Charges for AS IS Process, Hardware Supply, Configuration of Hardware and Software Installation and Go Live.

Sl. No.	Milestone	Payment
1.	Hardware Supply / Materials Delivery	70% Charges with Applicable GST
2.	Configuration of Hardware & Software, Installation, Commissioning, Testing, Go-Live	Rest 30% with Applicable GST

4.2.2 Annual AMC of CCTV at Arilo Dairy, Cuttack

Sl. No.	Milestone	Payment
1.	Completion of each quarter successful report of AMC Support for CCTV at Arilo Dairy, Cuttack is required for renewal of AMC for next Year.	25% of Annual Charges with applicable GST on successful completion of each quarter.

5. Service level agreements (SLA) during AMC Period

The installed system should have an uptime of 99.0 % up time.

In case of uptime falls below 85%, the contract shall be liable for termination.

6. Price Revision

No price revision shall be applicable throughout the Delivery Period and the contract period. 5 years' same rate contract for future enhancement for OMFED.

7. Taxes & Duties

7.1 Indirect Taxes

- A)** The Service Provider agrees to and, hereby accepts full and exclusive liability for payment of any and all taxes, duties, charges and levies as per the Applicable Laws as applicable for the Scope of Supply in accordance with the provisions of this Service Order / Agreement. In case it is increased or decreased under any statute, rules, regulations, notifications, etc. of any Authority, the impact shall be to the account of OMFED subject to submission of documentary evidence to the satisfaction of OMFED.
- B)** In case any fresh tax is imposed by any Authority under any Applicable Law during the Contract Period, the Service Provider shall deposit the same to the appropriate Authority which shall be reimbursed by OMFED on actuals and upon submission of documents evidencing such payment.
- C) Obligations relating to Goods and Services Tax (GST)**
- i. The Service Provider should have registration under GST Acts.
 - ii. The Service Provider has to raise Invoice as required under section 31 of the GST Act and relevant Rules made there under.
 - iii. The Invoice should contain the particulars as required under Rule 46 of CGST Rules.
 - iv. The Service Provider should file the GST Returns as required in the GST Acts, and details of Invoice submitted to OMFED and GST amount charged thereon should reflect in Form GSTR-2B within a reasonable time, so as to make OMFED enable to take Input Tax Credit (ITC) of the GST amount paid against those invoices.
 - v. If due to any reason attributable to the Service Provider, input credit of the GST amount paid on Invoices raised by the Service Provider is not available to OMFED/denied by the department then the same will be recovered from the payments of the Service Provider or the Service Provider has to deposit an equivalent amount.
 - vi. The Service Provider has to comply with all the Provisions of GST Acts, Rules and Notifications issued there under.
 - vii. The Service Provider will comply with the "Anti profiteering Measure" as required under Section 171 of the CGST Act.
 - viii. The Service Provider hereby undertakes to indemnify OMFED, from any liabilities arising in future due to noncompliance by the Service Provider of the GST Acts, Rules and any other Acts currently in force and applicable to the Service Provider in relation to the job assigned to the Service Provider by OMFED.
 - ix. TDS as applicable under GST Act shall be deducted from the bills by OMFED.

7.2 Direct Taxes

TDS as applicable shall be deducted under Income Tax Act,1961 and certificate of deduction shall be provided by OMFED to the Service Provider in accordance with the provisions of Income Tax Act,1961.

8. Liquidated Damages

- 8.1 If the Service Provider fails to achieve the Go-Live of the CCTV Surveillance System within the corresponding Delivery Period and any extension thereof, unless such, unless such failure is due to force majeure situation or due to OMFED's default, liquidated damages (LD) shall be imposed by OMFED on the Service Provider. However, imposition of LD shall be without prejudice to the other remedies available to OMFED under the terms of the Service Order / Agreement.
- 8.2 In case of delay in achievement of Go-Live of the CCTV Surveillance System, the LD shall be calculated as 2% (two per cent) of the total value of CCTV Surveillance System (excluding GST) for each month or part thereof of delay, subject to a maximum value of 10% of the value of CCTV Surveillance System (excluding GST). GST on LD shall be recovered in addition to the LD amount.
- 8.3 The delivery period shall start from the date of acceptance of the Service Order / Agreement or seven days from the date of issue of Service Order / Agreement, whichever is earlier.
- 8.4 OMFED shall have full liberty to realize the LD through the following ways:
 - a. Appropriation of the Performance Security; OR
 - b. Appropriation the of EMD (in case provision of Performance Security does not exist); OR
 - c. Reduction of the invoice/document value and release of the payment accordingly.
- 8.5 Any waiver of LD shall be at the sole option of OMFED only and any extension must be in writing and with the approval of the competent authority of OMFED.
- 8.6 If at any time during the Service Order / Agreement, the Service Provider encounters conditions that may impact the timely performance of services, the Service Provider shall promptly notify to OMFED in writing of the fact of the delay, it's likely duration and its cause(s). As soon as practicable after receipt of the Service Provider's notice, OMFED shall evaluate the situation and may at its discretion waive the LD on the request of the Service Provider.

9. Others

The vendor shall carry out all support related services for the CCTV Surveillance System on a real-time basis for a period of 03 (Three) years as part of warranty starting from the date of achievement of "Go-Live".

Annexure 2A: Proforma of the Agreement to be Signed between OMFED and the Service Provider

(to be executed on INR 100 non judicial stamp paper and to be duly notarized)

Ref: [_____]

This Agreement (hereinafter called the “Agreement”) is made on this [__] day of the month of [month], [year].

BETWEEN

The Orissa State Cooperative Milk Producers’ Federation Limited and having its head office at D-2, Saheed Nagar, Bhubaneswar-751007 (hereinafter referred to as “OMFED”, which expression shall, unless repugnant to or inconsistent with the context, mean and include its successors and assigns) of the first part.

AND

M/s. [_____], a company incorporated under the provisions of the Companies Act, 1956/2013 or a registered partnership firm under the provisions of the Indian Partnership Act, 1932 or a LLP firm registered under LLP Act, 2008 and having its registered office at [_____] (hereinafter referred to as the “Service Provider” which expression shall unless repugnant to or inconsistent with the context, mean and include its successors and assigns) of the other part.

WHEREAS

- i) the Service Provider, in the ordinary course of its business, is engaged in providing [_____] services to its clients, and have represented to OMFED through their bid(s), against Bid Document No. [_____] dated [__/__/__] (hereinafter called the “Tender”) for the Procurement of Services – [_____];
- ii) on the basis of the said Tender, OMFED has adjudged the Service Provider as a successful Bidder and issued Letter of Award (LoA) No. [_____] dated [__/__/__] for the same;
- iii) the Service Provider has agreed through their letter of acknowledgement vide letter No. [_____] dated [__/__/__] to perform and undertake the scope of work as described in the Tender;
- iv) the Service Provider is being engaged to provide the required services on the terms and conditions set forth in this Agreement;

NOW THEREFORE THE PARTIES hereby agree as follows:

1. The mutual rights and obligations of the Service Provider and OMFED shall be as set forth in this Agreement, in particular:

- (a) The Service Provider shall provide out the services in accordance with the provisions of this Agreement; and
- (b) OMFED shall make payments to the Service Provider in accordance with the provisions of this Agreement.

2. Conditions of Contract

- (a) Contract Period: <include relevant clauses from SCC>
- (b) Payment Terms: <include details related to the final quoted /negotiated prices>
- (c) <Other important terms and conditions may be included>
- (d) The Agreement shall be governed by the laws of India and the courts of Bhubaneswar shall have exclusive jurisdiction over all disputes arising under, pursuant to and/or in connection with this Agreement
- (e) This Agreement has been executed in English, which shall be the binding and controlling language for all matters relating to the meaning or interpretation of this Agreement
- (f) All the terms and conditions as per the Bid Document No. [___] dated [__/__/__] (including the General Conditions of Contract and Special Conditions of Contract) shall be applicable for this Agreement

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by their respective authorized representatives on the day and year first before written.

For and on behalf of OMFED (Authorized Representative) Name: Designation: OMFED D-2, Saheed Nagar, Bhubaneswar-751007	For and on behalf of M/s. (Authorized Signatory) Name: Designation: Name of the Service Provider: Address:
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In presence of the following witnesses

Name: Designation: OMFED D-2, Saheed Nagar, Bhubaneswar-751007	Name: Designation: Name of the Service Provider: Address:
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Annexure 3: Price Bid Format

Sl. No.	Items	Quantity	UOM	Basic Rate per each in figures (₹)	GST %	Unit Price after GST (3+4) (₹)	Total Price (1*5) (₹)
		1	2	3	4	5	6
1.	5 MP IP Dome Camera with mounting accessories	91	Nos.				
2.	5 MP IP Bullet Motorized Vari-focal Camera with mounting accessories	21	Nos.				
3.	Storage Server (NAS)	1	Nos.				
4.	4 MP PTZ Camera 300 Mtr with mounting accessories	6	Nos.				
5.	Video Wall 100" + with mounting accessories	1	Nos.				
6.	Main Server (2 Nos.) and PC client (2 Nos.)	4	Nos.				
7.	VMS Software with multi user / multi location access	1	Nos.				
8.	8-Port Gigabit Ethernet PoE/PoE+ managed Switch	10	Nos.				
9.	8-port 10/100/1000 Base-T PoE Smart managed switch with 2 Fiber Uplinks	6	Nos.				
10.	24-port 10/100/1000 Base-T Gigabit PoE+ Managed Switch L2	2	Nos.				
11.	65" LED Monitor	4	Nos.				
12.	CAT6 Cable Outdoor with laying through pvc pipe/weather proof pipe 20/25 mm	5	Bundle				
13.	Media Converter Giga	10	Nos.				
14.	Patch cords	260	Nos.				
15.	Fiber Connectors modules gigabit	20	Nos.				
16.	RJ45 Connector Industrial Grade	300	Nos.				
17.	6" Gi/ms metal pole for ptz and outdoor cameras	4	Nos.				
18.	Electrical Accessories (where electrical connection will be required)	As per actual	lot				
19.	Camera Pole Mounting Box	50	Nos.				
20.	Camera Mounting Box	75	Nos.				
21.	Surveillance HDD 10TB	8	Nos.				
22.	1 KVA UPS with dual battery min 30 mins backup	15	Nos.				
23.	12 port rack mounting fms (liu) drawer type slidable	6	Nos.				
24.	Rack 4U Outdoor	4	Nos.				
25.	Weather resistant housing with fog wiping	6	set				
26.	5 kva online ups (2-hour backup) for entire server	2	set				
27.	Installation, Configuration, Testing, Commissioning of 118 CCTV Cameras & server room	1	Job				

Annual Maintenance Charges Post Warranty						
Sl. No.	Particulars	UOM	Quantity	Basic Rate (₹)	GST % (₹)	Total (Basic + GST) (₹)
28.	AMC Charges for 1 st Year post Warranty	Job	01			
29.	AMC Charges for 2 nd Year post Warranty	Job	01			
30.	AMC Charges for 3 rd Year post Warranty	Job	01			
31.	AMC Charges for 4 th Year post Warranty	Job	01			
32.	AMC Charges for 5 th Year post Warranty	Job	01			
GRAND TOTAL						

Note: Grand total of Sl. 1-27 shall be considered for the decision of L-1 bidder, however OMFED can negotiate the prices mentioned in above tables by the bidder. (AMC value cannot be less than 10% for each year of total material cost for fair price bid.)

Signature of the Bidder with seal

Annexure 4: Declaration by the Bidder

(to be executed on INR 100 non judicial stamp paper and to be duly notarized)

Date: _____

Sub: Tender No. _____

In response to the Tender Document above stated, I/We hereby declare and solemnly swear that our Company/ firm _____ is not banned/blacklisted as on date by any competent court of Law, forum or any State Government or Central Government or their agencies or by any statutory entities or any PSUs.

AND, if at any stage the declaration/statement on oath is found to be false in part or otherwise, then without prejudice to any other action that may be taken, I/We, hereby agree to be treated as a disqualified Bidder for the ongoing Contract.

In addition to the disqualification our concern/entity may be banned/blacklisted.

AND, that I/We, shall have no right whatsoever, to claim for consideration of my/our bid at any stage and the money deposited in the form of EMD shall be liable for forfeiture in full, and the tender, if any to the extent accepted may be cancelled.

Signature of the Deponent

(Authorized signatory of the Bidder with Seal)

Date:

Place:

Annexure 5: Check-list for the Techno-Commercial Bid
(to be enclosed with the Techno-Commercial Bid)

1. Name of the Bidder, Postal address & Registered Office:
2. Type of organization:
3. Contact name & designation of the Authorized Signatory of the Bidder & contact number:
4. Official email, phone, fax:
5. Official website:

Sl. No.	Qualification Requirement	Complied	Documents
1.	Bidder's Experience – Documents in support of meeting Technical Criteria (Refer Chapter 5 and Clause 5.1)		
2.	Bidder's Experience – Documents in support of meeting Financial Criteria (Refer Chapter 5 and Clause 5.2)		
3.	Average Turn Over Certificate of Last 03 Years (Refer Chapter 5, Point – 5.2)		
4.	OEM Turn Over Copies duly self-attested (Refer Chapter 5, Point – 5.2.1)		
5.	Incorporation related documents (Refer Chapter 5, Point – 5.3.1)		
6.	Copy of PAN & GST Registration (Refer Chapter 5, Point – 5.3.2)		
7.	Declaration by the Bidder – Annexure 4		
8.	Proof of payment of Tender Paper Fee (Refer Chapter 5, Point – 5.3.4)		
9.	Proof of payment of EMD/ documents related- to exemption from the same (Refer Chapter 5, Point – 5.3.4)		
10.	Self-Attested Copy of Functional office (Refer Chapter 5, Point – 5.3.6)		
11.	Self-Attested copy of Service Center details (Refer Chapter 5, Point – 5.3.7)		
12.	Copy of OEM Authorization Certificate (Refer Chapter 5, Point – 5.3.8)		
13.	Quality Report of Products (Refer Chapter 5, Point – 5.3.9)		
14.	Copy of Compliance sheet approved by OEM / Local office of OEM (Refer Chapter 5, Point – 5.3.10)		

15.	Copies of supporting documents from OEM related to warranty of products (Refer Chapter 5, Point – 5.3.11)		
16.	Copy of supporting documents showing presence of OEM in India for at least 5 years (Refer Chapter 5, Point – 5.3.12)		
17.	Copies of OEM Certifications (Refer Chapter 5, Point – 5.3.15)		
18.	Signed Copy of Tender Document (Each & Every page to be sealed & signed)		
19.	Signed copy of check list with seal – Annexure 5		
20.	Bank details – Annexure 6		
21.	Pre-Bid Queries- Annexure 9		

Date

Signature of the Authorized Signatory of the Bidder with Seal

Annexure 6: Mandate Form - on the letterhead of the Bidder

To

The Orissa State Cooperative Milk Producers' Federation Limited (OMFED)
D-2, Saheed Nagar, Bhubaneswar
Odisha – 751007

Sub: Mandate for payment through electronic mode i.e. EFT/NEFT/RTGS

Dear Sir,

We are here by giving our consent to get all our payments due from OMFED through electronic mode i.e. EFT/NEFT/RTGS. We also agree to bear all the bank charges payable in this regard.

(Please furnish the information in capital letter)

- 1 . Name of the Bidder
2. Address of the Bidder

PIN Code			
IT PAN			
e-mail Id		Mobile No	
Phone			

3. Bank Particulars

Bank Name					
Branch Name					
Branch Address					
Account No.					
Account Type	Saving/Current/Cash Credit		Branch State		
RTGS Enable	Yes/No	NEFT Enabled	Yes/No	Core-Bank Enabled	Yes/No
Branch Code		MICR Code		IFSC Code	

4. Effective Date

We hereby declare that the particulars furnished are correct & complete. If any transaction is delayed or not effected for incomplete/incorrect information/any other technical reasons, we will not hold OMFED responsible.

Date:

Signature of the Authorized Signatory of the Bidder with Seal

Certified that the Bank particulars furnished are correct as per our record.

Date:

Signature of the Bank with seal

Annexure 7: Format for Performance Security

BG should be obtained from Nationalized/ Scheduled Bank and should be operable and invocable at its Branch in Bhubaneswar

(To be executed on INR 100/- non-judicial stamp paper)

B.G. No.

Dated:

WHEREAS:

- (A) (“AGENCY”) and The Orissa State Cooperative Milk Producers' Federation Limited having its office at D-2, Sahid Nagar, Bhubaneswar – 751 007 (“OMFED”) has issued a Letter of Award (LoA) dated (the “LoA”) whereby OMFED has agreed to engage the Agency for (the “agreement”).
- (B) The LOA requires the AGENCY to furnish Performance Security to OMFED of a sum of INR _____/- (the “Guarantee Amount”) as security for due and faithful performance of its obligations, under and in accordance with the AGREEMENT, for a period of _____ (the “Guarantee Period”).
- (C) We, through our branch at (Bhubaneswar) (the “Bank”) have agreed to furnish this bank guarantee (“Bank Guarantee”) as Performance Security. NOW, THEREFORE, the Bank hereby, unconditionally and irrevocably, guarantees and affirms as follows:
1. The Bank hereby, unconditionally and irrevocably, guarantees and undertakes to pay to OMFED upon occurrence of any failure or default in due and faithful performance of all or any of the AGENCY’s obligations, under and in accordance with the provisions of the agreement, on its mere first written demand, and without any demur, reservation, recourse, contest or protest, and without any reference to the Agency, such sum or sums up to an aggregate sum of the Guarantee Amount as OMFED shall claim, without OMFED being required to prove or to show grounds or reasons for its demand and/ or for the sum specified therein.
 2. A letter from OMFED that the AGENCY has committed default in the due and faithful performance of all or any of its obligations under and in accordance with the agreement shall be conclusive, final and binding on the Bank. The Bank further agrees that OMFED shall be the sole judge as to whether the AGENCY is in default in due and faithful performance of its obligations under the agreement and its decision that the Agency is in default shall be final, and binding on the Bank, notwithstanding any difference between OMFED and the Agency, or any dispute between them pending before any court, tribunal, arbitrator or any other judicial or quasi-judicial body or by the discharge of the Agency for any reason whatsoever.
 3. In order to give effect to this Bank Guarantee, OMFED shall be entitled to act as if the Bank were the principal debtor and any change in the constitution of the Agency and/ or the Bank, whether by their absorption with any other body or corporation or otherwise, shall not in any way or manner affect the liability or obligation of the Bank under this Bank Guarantee.

4. It shall not be necessary, and the Bank hereby waives any necessity, for OMFED to proceed against the Agency before presenting to the Bank its demand under this Bank Guarantee.
5. OMFED shall have the liberty, without affecting in any manner the liability of the Bank under this Bank Guarantee, to vary at any time, the terms and conditions of the agreement or to extend the time or period for the compliance with, fulfilment and/ or performance of all or any of the obligations of the AGENCY contained in the agreement or to postpone for anytime, and from time to time, any of the rights and powers exercisable by OMFED against the AGENCY, and either to enforce or forbear from enforcing any of the terms and conditions contained in the agreement and/ or the securities available to OMFED, and the Bank shall not be released from its liability and obligation under this Bank Guarantee by any exercise by OMFED of the liberty with reference to the matters aforesaid or by reason of time being given to the AGENCY or any other forbearance, indulgence, act or omission on the part of OMFED or of any other matter or thing whatsoever which under any law relating to sureties and guarantors would, but for this provision, have the effect of releasing the Bank from its liability and obligation under this Bank Guarantee and the Bank hereby waives all of its rights under any such law.
6. This Bank Guarantee is in addition to, and not in substitution of, any other guarantee or security now or which may hereafter be held by OMFED in respect of, or relating to, the agreement or for the fulfillment, compliance and/ or performance of all or any of the obligations of the Agency under the agreement.
7. Notwithstanding anything contained hereinbefore, the liability of the Bank under this Bank Guarantee is restricted to the Guarantee Amount and this Bank Guarantee will remain in force until the expiry of the Guarantee Period, and unless a demand or claim in writing is made by OMFED on the Bank under this Bank Guarantee no later than twelve (12) months from the date of expiry of the Guarantee Period, all rights of OMFED under this Bank Guarantee shall be forfeited and the Bank shall be relieved from its liabilities hereunder.
8. The Bank undertakes not to revoke this Bank Guarantee during its validity, except with the previous express consent of OMFED in writing, and declares and warrants that it has the power to issue this Bank Guarantee and the undersigned has full powers to do so on behalf of the Bank.
9. Any notice by way of request, demand or otherwise hereunder may be sent by hand/messenger or by post addressed to the Bank at its above referred branch, which shall be deemed to have been duly authorized to receive such notice and to effect payment thereof forthwith, and if sent by post it shall be deemed to have been given at the time when it ought to have been delivered in due course of post and in proving such notice, when given by post, it shall be sufficient to prove that the envelope containing the notice was posted and a certificate signed by an officer of OMFED that the envelope was so posted shall be conclusive.
10. This Bank Guarantee shall come into force with immediate effect and shall remain in force and effect until the expiry of the Guarantee Period (including the claim period) or until it is released earlier by OMFED pursuant to the provisions of the agreement.

11. Capitalized terms used herein, unless defined herein, shall have the meaning assigned to them in the agreement.

12. Notwithstanding anything contained herein:

- i. Our liability under this Bank Guarantee shall not exceed INR
- ii. The Bank Guarantee shall be valid up to (“Expiry Date including claim period”.....of the Bank Guarantee).
- iii. We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and if you serve upon us a written claim or demand made in the manner prescribed in this Bank Guarantee on or before (Claim Period of the Bank Guarantee) at our Branch at _____Bhubaneswar.
- iv. After claim period all your rights under this Bank Guarantee will be forfeited and we shall be relived and discharged from all liabilities thereunder, irrespective of whether the original has been returned to us or not.

13. The Bank Guarantee is issued in paper form and Advice transmitted through SFMS with required details to the beneficiary’s advising bank (INDIAN BANK, _____BRANCH, BHUBANESWAR, IFSC Code _____).

Signed and Delivered by _____Bank by the hand of Mr./Ms. _____, its _____and authorized official.

(Signature of the Authorized Signatory) (Official Seal)

NOTE:

- i. The Bank Guarantee should contain the name, designation and code number of the officer(s) signing the Bank Guarantee.
- ii. The address, telephone number and other details of the head office of the Bank as well as of issuing branch should be mentioned on the covering letter of issuing Branch.

For _____[Indicate name of Bank]

Signature.....
Full Name.....
Designation.....
Power of Attorney No.....
Date.....
Seal of the Bank.....

WITNESS: (SIGNATURE WITH NAME AND ADDRESS)

(1)

Signature.....
Full Name.....

(2)

Signature.....
Full Name.....

Annexure 8: Format for Power of Attorney

(to be executed on INR 100 non judicial stamp paper and to be duly notarized)

Known all men by these presents, we(name of the firm and address of the registered office) do hereby irrevocably constitute, nominate, appoint and authorize Mr./ Ms. (name), son/daughter/wife of and presently residing at, who is presently employed with us and holding the position of, as our true and lawful attorney (hereinafter referred to as the “Attorney”) to do in our name and on our behalf, all such acts, deeds and things as are necessary or required in connection with or incidental to submission of our tender against the Bid document no. [•] dated [•] published by The Orissa State Cooperative Milk Producers' Federation Limited for the “Procurement of Services – [•]”, including but not limited to signing and submission of all applications, bids and other documents and writings,

AND we hereby agree to ratify and confirm and do hereby ratify and confirm all acts, deeds and things done or caused to be done by our said Attorney pursuant to and in exercise of the powers conferred by this Power of Attorney and that all acts, deeds and things done by our said Attorney in exercise of the powers hereby conferred shall and shall always be deemed to have been done by us.

IN WITNESS WHEREOF WE,....., THE ABOVE NAMED PRINCIPAL HAVE EXECUTED THIS POWER OF ATTORNEY ON THIS.....DAY OF..... 20[•].

For

Witnesses

.....
(Signature, name, designation and address)

1.

2.

Accepted

(Signature)
(Name, Title and Address of the Attorney)

Annexure 9: Format for submitting Pre-Bid Queries

Bidder to submit the pre-bid queries in following format in both pdf format as well as in excel.

Sl. No.	Clause No.	Page No.	Provision of Document	Queries / Suggestions