

DETAILS OF THE MACHINE

Name of Machine	Specification	A/U	Qty
(a)	(b)	(c)	(d)
Fixed Under Vehicle Surveillance System	Fixed Under Vehicle Surveillance System as per specification below:	No	1 (One)
	BOF Requirements/Specification		
	1. Name of the Machine : Fixed Under Vehicle Surveillance System		
	2. Model : To be mentioned		
	3. Brand : CommPort/Westminster/Gatekeeper/Equivalent		
	4. Country of Origin and Assemble : Group A countries		
	5. County of Manufacturer : To be mentioned		
	6. Name of Manufacturer and Address : To be mentioned		
	7. Name of the Principal and Address : To be mentioned		
	8. Specification:		
	a. Imaging Unit		
	1. Camera Resolution : Minimum full HD 1080p		
	2. Scanning Type : Color area scan technology or To be mentioned		
	3. Frame/Scan Rate : To be mentioned		
	4. Capture Speed : To be mentioned		
	5. Protection Grade : Minimum IP 68		
	6. Housing : Stainless steel/anodized aluminium or To be mentioned		
	7. Load-bearing capacity : Minimum 20 tons		
	b. Illumination System		
	1. Lighting : Minimum two independent light array or To be mentioned		
	2. Illumination Mode : To be mentioned		
	3. Protection Grade : Minimum IP 68		
	c. License plate recognition system : Army vehicle number plates, along with all other Bangla & English number plates, must be readable or To be mentioned		
	d. System Host & Monitor		
	1. Processor : Minimum intel i7 12th gen		
	2. RAM : Minimum 16 GB (DDR4/DDR5)		
	3. Storage : Minimum 1TB (SSD)		
	4. Display Size : Minimum 24 inch		
	5. Display Resolution : Minimum full HD 1080p		
	6. UPS : Minimum 15 minutes power backup		
	e. Functional Requirements		
	1. Capture a continuous, high-resolution image of the entire vehicle underside in real-time and automatically generate a seamless panoramic image with AI based analysis.		
	2. Integration with License Plate Reader (LPR) system for license plate capture and driver image system for the real time driver image capture with database linkage.		
3. Automatically detect anomalies, foreign objects or tampering against baseline images.			
4. Record and archive all images and logs for a minimum of 12 months (extendable).			
5. Logs shall be searchable by vehicle registration, date/time and operator ID.			
6. GUI with options to zoom, annotate, mark and export images.			
7. Audible and visual alerts upon detection of suspicious objects.			
f. Power : 220-240VAC, 50Hz			
g. Software & License : To be mentioned			
6 Additional Accessories : Additional hardware/accessories to be mentioned (if needed)			

(a)	(b)	(c)	(d)														
	<p>7. Conditions :</p> <p>a. Year of Manufacturing: Not earlier than contract year.</p> <p>b. All additional accessories including civil works (if needed) during installation of the System must be provided by the supplier.</p> <p>c. Installing, commissioning, test and trial run must be conducted at BOF site within 30 days from the date of arrival of all hardware.</p> <p>d. The supplied items shall have warranty for a minimum period of 12 (Twelve) months after accepted by BOF inspection authority.</p> <p>e. Any defect observed during the warranty period shall be replaced/repared free of cost with minimum down time (30 days). All the software updates during the warranty period shall be supplied, installed and trained to BOF personnel on real time basis at free of cost.</p> <p>f. Original Leaflet/Catalogue/Brochure to be submitted with the offer. Manufacturer's main website must be mentioned in the brochure where the offered item must be found. If the offered item is only available at the local distributor's website, that website of the local distributor must be endorsed by the manufacturer in their main website. Fabricated document will result in making the offer invalid.</p> <p>g. 1 x Operation & Maintenance/Repair manual (Hard and soft copy) must be supplied with the machine.</p> <p>h. Monitoring or Operator system (including hardware & software) must be provided by the supplier.</p> <p>j. Software & License (if needed) for lifetime validity must be provided by the supplier. All necessary software to handle & maintain the system must be supplied along with the system. If any software update, license key is required for this, supplier must provide this for systems lifetime with free of cost. Remote or system locking of the system using software and password is not allowed.</p> <p>k. Machine installation, trial run and operational with maintenance training (electrical & mechanical) is to be provided by the machine manufacturer at BOF site, The duration of training should be at least 5 working days after machine installation, following information must be given as below:</p> <table border="1" data-bbox="443 996 1348 1160"> <thead> <tr> <th>Ser</th> <th>Training</th> <th>Details</th> <th>Supplier's Opinion</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td rowspan="3">Local training</td> <td>Trainer Type (Local / Foreign)</td> <td></td> </tr> <tr> <td></td> <td>Number of Trainer</td> <td></td> </tr> <tr> <td></td> <td>Training Schedule</td> <td></td> </tr> </tbody> </table>	Ser	Training	Details	Supplier's Opinion	1.	Local training	Trainer Type (Local / Foreign)			Number of Trainer			Training Schedule			
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Terms and Conditions

Supplier must mention their compliance on the following mentioned points :

1. A principal/manufacture can submit **only one offer through one local agent** for any individual item. Offers through multiple local agents by same principle/manufacture will be **treated as rejected**.
2. To ensure unhindered LC handling the principal must provide a certificate to confirm that their LC operating bank has RMA (Relationship Management Agreement) with the local scheduled Banks of Bangladesh.
3. Supplier must **clearly mention** (in the technical offer) that as principal/manufacture they poses necessary **export permit** from the concern ministry or Chamber of Commerce of their country. They must also submit a certificate in this regards as per the attached specimen format at **Annex F**.
4. Before signing the contract, in Foreign Currency Performance Guarantee @ 10% of total LC value is to be submitted by the Principal in favour of Commandant, Bangladesh Ordnance Factories, Gazipur Cantonment, Gazipur through any scheduled Bank located in Bangladesh **(As per the format at Annex D)**.
5. A separate **certificate should be provided** by the principal **originally signed** (Computerized or digitally edited signature will not be accepted) stating that they are aware of the requirement of the PG and if the contract is awarded they will be bound to provide the PG as per **the format at Annex E**, otherwise administrative action will be taken against the principal and local agent.
6. **End User Certificate (EUC)** will have to be submitted **(As per the format at Annex H)**.
7. The stores should be supplied to BOF at **supplier's cost**.
8. On arrival of the stores at BOF, the supplier must complete installation, commissioning, trial run & trial production within 01(one) month (from the date of entry at BOF). Otherwise, penalty will be imposed at the rate of 2% but not less than 1% and will not exceed 10% of the total CFR/LC vale (As applicable).
9. If the supplier fails to deliver the stores within the stipulated period, the followings will be applicable:
 - a. Cancel the contract and/or,
 - b. Decision at the discretion of BOF.
10. Inspectorate is the authority in all matters pertaining to Inspection. Any verdict by the inspectors regarding rejection, acceptance, and /or deviation of machine involving price reduction will be treated as final and will not be subject to arbitration.
11. The Supplier must submit the following **attested documents** with the schedule :
 - (a) Trade License
 - (b) Tin Certificate
 - (c) Upto date VAT Registration certificate.