(Cover Page)



# BY MINISTRY OF DEFENCE GOVERNMENT OF INDIA

# CORRIGENDUM NO 1 FOR PROCUREMENT OF QUANTITY 7,000 BODY WORN CAMERA SYSTEM (1920 x 1080 Pixel) UNDER EMERGENCY PROCUREMENT THROUGH FAST TRACK PROCUDURE (FTP)

**CATEGORY: BUY (INDIAN)** 

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This document contains 31 pages including cover page and Appendices.

Tele & Fax: 011-23012243	File No: C/31117/BWCS/Inf-8(FINSAS)
E-mail:suresh1234@nic.in	Directorate General of Infantry Infantry - 8 (FINSAS) Room No, 403, D-1Wing 4 <sup>th</sup> Floor, Sena Bhawan Integrated Head Quarters of MoD (Army) New Delhi-110011
	27 Dec 2022
То	

# CORRIGENDUM NO 1 OF REQUEST FOR TECHNICAL AND COMMERCIAL PROPOSAL FOR PROCUREMENT OF QUANTITY 7,000 BODY WORN CAMERA SYSTEM (1920 x 1080 PIXEL) UNDER EMERGENCY PROCUREMENT THROUGH FAST TRACK PROCUDURE (FTP)

**CATEGORY: BUY (INDIAN)** 

Dear Sir/Madam,

1. xxxxxxxx.

#### **Synopsis**

- 2. **Broad Description of Equipment/System**. As per Appendix 'A'.
- 3. The salient aspects and timelines of the acquisition are tabulated below. In case of any variation in the details furnished below or in any Annexures(s) with that mentioned in the RFP, information furnished in the main body of the RFP at referred Paragraph is to be followed.

Ser	Description	Details	Reference Para of
No			the RFP
(a)	Equipment/ System	Body Worn Camera System	
	required	(1920 x 1080 Pixel)	
(b)	Quantity Required	7,000	
(c)	Categorisation of	Buy (Indian)	
	Procurement		
(d)	Minimum IC Content	60% and if, Indigenous design	Para 7 of RFP
	required	≥50%	
(e)	Place(s) of Delivery	COD, Agra	
(f)	Warranty Period	24 Months of Warranty	

(g)	CMC Period	04 Years post Warranty	
(h)	Last date for	03 Jan 2023	Para 20 of RFP
	submission of Pre-bid		
	queries		
(j)	Date and time for	09 Jan 2023 at 1500hrs	Para 21 of RFP
	Pre-bid meeting		
(k)	Last date and time for	17 Jan 2023 at 1500hrs	Para 22 of RFP
	Bid Submission		

- 4. XXXXX
- 5. XXXXXXX
- 6. XXXXX
- 7. XXXXX.
- 8. XXXXX.
- 9. XXXX.
- 10. XXXX.

.

Yours faithfully

(Rajiv Chhibber) Major General Chairman

Empowered Committee.

#### **INDEX**

		<u>Description</u>	Reference	
	XXXX		XXX	
	XXXXX		XXX	
	XXXXXX		XXX	
	XXXXXX		XXX	
	XXXXXX		XXX	
Appendix A	XXXXXX		VVVV	
Appendix B	XXXXXX		XXXX	
Appendix C	XXXXXX		XXX	
Appendix D	XXXXXX		XXX	
Appendix E	XXXXXX			
	Annexure I	XXXXXX		
	Annexure II	XXXXXX		
	Annexure III	Bank Guarantee Format for Performance –cum-		
		Warranty and CMC	Part III	
	Annexure IV	XXXXXX	r art III	
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Appendix M	Certificate : Malicious Code			
Appendix N	Product Suppor	t		

#### **Disclaimer**

XXXXXXX

#### PART I – GENERAL REQUIREMENTS

1	VVVV	7
1.	XXXXX	١

#### **Non-Disclosure**

- 2. XXXXX
- 3. XXXXX
- 4. **Confidentiality of Information**. XXXXX

#### **Business Eligibility**

- 5(a). **Undertaking by Bidders**. XXXXX
- 5(b). XXXXX
- 6. <u>Pre-Qualification Criteria {for multi-vendor cases in Buy (Indian) case}</u>. XXXXX
- 7. **Indigenous Content**. XXXXX
- 8. **Year of Production**. XXXXX
- 9. **Delivery Schedule**. XXXXX
- 10. XXXXX.
- 11. Warranty. XXXXX.
- 12. <u>In Service Life</u>. XXXXX
- 13. <u>Codification</u>. XXXXX
- 14. <u>Technical Literature</u>. XXXXX.
- 15. **Government Regulations**. XXXXX.
- 16. XXXXX
- 17. **Patent Rights.** XXXXX
- 18. **Integrity Pact**. XXXXX x
- 19. **Fall Clause**. XXXXX.

#### **Bid Timelines**

20. XXXXX

- 21. **Pre-Bid Meeting.** A pre-bid meeting will be organised by SHQ at 1500 hrs on 09 Jan 2023 at Room No 407, Infantry Directorate Conference Hall to answer any queries or clarify doubts regarding submission of proposals. The Bidder or his authorised representative is requested to attend. Necessary details may be sent a week in advance to Directorate General of Infantry (Inf-8), (Address as per Para 21 of RFP) to facilitate obtaining of security clearance.
- 22. <u>Submission of Bids</u>. The Technical and Commercial Proposals along with IP should be sealed separately in three separate envelopes clearly indicating Commercial/ Technical/ IP and any other Bank Guarantee, as applicable, and then put in one envelope and sealed (all the envelopes should clearly state the letter No of RFP and the name of equipment and Bidder name) and submitted to the undersigned at the following address by 1500 hours on 17 Jan 2023:-

Directorate General of Infantry, (Inf-8) General Staff Branch Integrated HQ of MoD (Army) Room No 403; D-1 Wing, Sena Bhawan, Rajaji Marg, DHQ PO, New Delhi - 110011 Tele – 011-23012243 Fax No – 011-23918412

23. Offer opening by a Offer opening committee will be held at **1500 hrs on 18 Jan 2023** at the same venue as indicated at Para 21 above. The Bidder or his authorised representative is welcome to be present at the opening of the proposals. Necessary details may be sent atleast one week in advance (two weeks in case of foreign Bidders) to facilitate obtaining of security clearance.

#### PART II – TECHNICAL REQUIREMENTS

24.	XXXXXX
26.	XXXXXX
27.	XXXXXX
28.	XXXXXX
29.	XXXXX
	Malicious Code Certificate. The Bidder is required to submit a 'Malicious Code Cicate' (only for Electronic items and Software) along with the Technical Proposal. The formatied at Appendix M to this RFP.
30.	XXXXX
CMC	<b>Product Support (CMC).</b> After induction, the equipment/system would be repaired and ained as per the repair and maintenance philosophy at <b>Appendix N</b> to this RFP. The details of proposals, must be submitted separately by the Bidder with technical aspects being included in the commercial offer.
31.	XXXXX
32.	XXXXX
33.	XXXXX
34.	
	XXXXX
35.	XXXXX XXXXX.

36.

37.

XXXXX

XXXXX

### PART III - COMMERCIAL REQUIREMENTS

XXXXXXX

#### PART IV: BID EVALUATION AND ACCEPTANCE CRITERIA

#### XXXXXXX

#### Appendix A

(Refers to Para 24, 25, 26, 28(a), 29, 31 & 48(a) of RFP)

#### OPERATIONAL CHARACTERISTICS AND FEATURES

Ser No	OR PARAMETERS			
110	PART - I GENERAL INFORMATION			
		) should be a light weight, compact, unobtrusive and easy to cord events both during the day as well as during pitch dark		
		le to operate under extreme low temperature, fog and rain.		
	<u>PART - II PH</u>	YSICAL CHARACTERISTICS		
1.	Compact in size with maxim 200 gms.	num volume 189000 cubic mm and maximum weight of		
2.	Easy to wear and have s body/uniform of the user.	secured latching/strapping facility for attaching with		
	PART - III T	ECHNICAL SPECIFICATION		
3.	Sensor	1/2.5" to 1" CMOS colour Sensor with min 12 MP.		
4.	OS	Linux, Android or better.		
5.	Booting time	Not more than 20 secs (From "Power ON" to "Recording")		
6.	Lens (HOV)	120°± 10° or better		
7.	Video output	2 inch Full HD LCD Screen on the reverse side of the body worn camera.		
8.	Recording Resolution	1920x1080P or better		
9.	Frame rate	Support recording at 1080p@30fps & 720p@30fps		
10.	Record mode	Video & audio synchronised		
11.	Compression	H.264/H.265/MP4/TVI		
12.	Audio input	One or more built in mic for audio recording		
13.	Image Resolution	1920 x 1080 or better		

<u>Ser</u>	OR PARAMETERS		
<u>No</u>			
14.	Snapshot	Should support snapping during video recording	
15.	Storage	In build 64 GB SSD integrated with the device with no option to handle/remove by user.	
16.	IR	At 10m, detect activities under starlight clear moonless night sky excluding airglow (0.0002 lux) and starlight clear moonless night sky including air glow (0.002 lux).	
17.	Laser	Switch based laser lock for precise positioning and recording	
18.	Data transfer/communication with external PC	Docked station based secured communication with external PC	
19.	Protocol	Protocols to be provided to ensure:  (a) Security of data within the device (b) while transferring through the docking station and (c) while storing in external device	
	PART - IV	OTHER SPECIFICATIONS	
20.	Other Features	(a) Indicators. Recording, Standby, charging under progress, charging completed, battery power percentage indictor, data usage percentage.	
21	OGD D I	(b) Electro optical Image stabilization	
21.	OSD Burn In	Burn in date, time, device ID, officer ID, location.	
22.	Playback	Support local playback of video on the BWC and search video files by time event.	
23.	Pre/post-recording of Video	Minimum 30 seconds pre- and post-recording.	
24.	Record encryption	Support AES 256-bit encryption technology or better and in camera should not be editable. Encrypted video transfer through secured protocol restricting any leakage of data. Storage to be completely secured.	
25.	Log	Record key operation, setting change, events, alarms.	
26.	Player	Play back video files on the PC and analyze data information in the field.	

Ser No	OR PARAMETERS		
27.	Time	Synchronize date and time with GPS or PC.	
		·	
28.	Charging	90% or more battery to get charged within 3-4 hours.	
29.	Operating Conditions	Temperature: Minus 20°C to plus 45°C, Humidity-Upto 80% Humidity.	
30.	Battery capacity	One full charge to support 12 hrs continuous recording at 720p@30fps.	
31.	Weatherproof	IP67 or latest standards.	
32.	Certification	As per Class LI 1 of JSS 5855-11:2019 or latest and BIS certification for Body worn camera and accessories.	
33.	Password Protection	Device to be administrator Password protected.	
34.	Shock & damage resistance during use	As per Class LI 1 of JSS 5855-11:2019 or latest.	
35.	Mounting System	Clip/ Belt/ Harness.	
36.	Charger/Charging System	Compatible.	
37.	Colour of Camera	Black/Olive Green.	
38.	Service Life & Maintenance	6 Yrs.	
		2 yrs of warranty and CMC for maintenance through its balance life.	
39.	Provision of on board GPS ar	nd facility to upgrade to NAVIC one it is launched.	
40.	Unique ID for each system to be provided which should be registered in the name of the OEM.		
41.	The body worn camera OEM should be a genuine manufacturer and should be an official valid H.264/H.265 HEVC Certificate and should be listed on HEVC website at the time of submitting bid. They should be paying the license fee for using the genuine HVEC Compression, legally. The same will be verified.		
42.	The MAC Address of the Body Worn Camera should be registered in the name of OEM supplying the cameras.		
43.	Accessories: Charger/docking transferring cord.	ng station, body harness/Camera mounting frame, data	

#### Appendix B

(Refers to Para 24, 28(b) & 29 of RFP)

#### **COMPLIANCE TABLE**

XXXXXXXX

### Appendix C to Schedule I to Chapter II

(Refers to Para 11 of RFP)

#### WARRANTY CLAUSE

- 1. XXXXXXXX.
- 2. XXXXXXXX.
- 3. XXXXXXX
- 4. **SELLER** hereby warrants that necessary service and repair backup during the warranty & CMC period, including routine maintenance beyond Unit Level shall be provided by the **SELLER** and he will ensure that the **cumulative** downtime **period for the equipment does not exceed 10% of the warranty & CMC period.**
- 5. XXXXXXXX.
- 6. XXXXXXXX.
- 7. XXXXXXX
- 8. XXXXXXX.
- 9. XXXXXXX

\*\*\*\*

## **Appendix D** (Refers to Para 30 of RFP)

#### <u>DEMONSTRATION METHODOLOGY</u> BODY WORN CAMERA SYSTEM 1920 X 1080 PIXEL

- 1. XXXXXXX.
- 2. Number of Trial Equipment and Other Associated Items. XXXXXX
- 3. <u>Crew</u>. XXXXXX
- 4. <u>Timeframe for Demonstration</u>. XXXXXX
- 5. **Retention of Trial Equipment**. XXXXXX
- 6. <u>Transportation of Equipment</u>. XXXXXX

#### **Demonstration cum Evaluation by Empowered Committee**

- 7. XXXXXXX.
- 8. **Change of Equipment**. XXXXXX

•

- 9. **Location of Demonstration**. XXXXXX
- 10. <u>Vendor Certification (Certificate of Conformance)</u>. XXXXXX.
- 11. <u>Testing Charges</u>. XXXXXX

#### **Broad Demo Plan**

12. Broad Demo plan is attached as Annexure.

#### **Pre - Demonstration Meeting**

13. XXXXXX.

#### Representations / Requests

14. XXXXXXX.

#### **Schedule of Demonstration**

15. XXXXXXX.

#### **Miscellaneous**

- 16. XXXXXXX
- 17. XXXXXX

#### **DEMO PLAN**

- 1. **Introduction**. XXXXXX
- 2. XXXXXX
- 3. **Legend**. Xxxxx
- 4. **<u>Demo Plan</u>**. The demo plan is as given below. Wherever mentioned the vendor to submit CoC/ Certificate from NABL accredited lab as applicable.

#### **DEMO PLAN: BODY WORN CAMERA SYSTEM 1920 X 1080 PIXEL**

Ser No	<u>O</u>	OR PARAMETERS	METHOD OF EVAL
	PART -I GEN	NERAL INFORMATION	
1.	unobtrusive and easy to handl during the day as well as duri	nera (BWC) should be a light weight, compact, e device which is to be used to record events both and pitch dark night. The device to be rugged and me low temperature, fog and rain.	D
	PART – II PHYS	ICAL CHARACTERISTICS	
2.	Compact in size with maxir weight of 200 gms.	num volume 189000 cubic mm and maximum	D
3.	Easy to wear and have secured latching/strapping facility for attaching with body/uniform of the user.		D
	PART – III TEC	HNICAL SPECIFICATION	
4.	Sensor	1/2.5" to 1" CMOS colour Sensor with min 12 MP.	CA
5.	OS	Linux, Android or better.	D
6.	Booting time	Not more than 20 secs (From "Power ON" to "Recording")	D
7.	Lens (HOV)	120°± 10° or better	С
8.	Video output	2 inch Full HD LCD Screen on the reverse side of the body worn camera.	D
9.	Recording Resolution	1920x1080P or better	С

<u>Ser</u> <u>No</u>	<u>o</u>	R PARAMETERS	METHOD OF EVAL
10.	Frame rate	Support recording at 1080p@30fps & 720p@30fps	С
11.	Record mode	Video & audio synchronised	С
12.	Compression	H.264/H.265/MP4/TVI	CA
13.	Audio input	One or more built in mic for audio recording	D
14.	Image Resolution	1920 x 1080 or better	С
15.	Snapshot	Should support snapping during video recording	D
16.	Storage	In build 64 GB SSD integrated with the device with no option to handle/remove by user.	D&C
17.	IR	At 10m, detect activities under starlight clear moonless night sky excluding airglow (0.0002 lux) and starlight clear moonless night sky including air glow (0.002 lux).	CA
18.	Laser	Switch based laser lock for precise positioning and recording	D
19.	Data transfer/communication with external PC	Docked station based secured communication with external PC	С
20.	Protocol	Protocols to be provided to ensure:  (a) Security of data within the device (b) while transferring through the docking station and (c) while storing in external device	С
	PART – IV OTHER SPECIFICATIONS		
21.	Other Features	(a) <u>Indicators</u> . Recording, Standby, charging under progress, charging completed, battery power percentage indictor, data usage percentage.	D
		(b) Electro optical Image stabilization	С

<u>Ser</u> <u>No</u>	<u>Ol</u>	METHOD OF EVAL	
22.	OSD Burn In	Burn in date, time, device ID, officer ID, location	D
23.	Playback	Support local playback of video on the BWC and search video files by time event.	D
24.	Pre/post-recording of Video	Minimum 30 seconds pre- and post-recording	D
25.	Record encryption	Support AES 256-bit encryption technology or better and in camera should not be editable. Encrypted video transfer through secured protocol restricting any leakage of data. Storage to be completely secured.	С
26.	Log	Record key operation, setting change, events, alarms.	D
27.	Player	Play back video files on the PC and analyze data information in the field.	D
28.	Time	Synchronize date and time with GPS or PC	C & D
29.	Charging	90% or more battery to get charged within 3-4 hours.	C & D
30.	Operating Conditions	<u>Temperature</u> : Minus 20°C to plus 45°C, Humidity- Upto 80% Humidity.	С
31.	Battery capacity	One full charge to support 12 hrs continuous recording at 720p@30fps	C & D
32.	Weatherproof	IP67 or latest standards	CA
33.	Certification	As per Class LI 1 of JSS 5855-11:2019 or latest and BIS certification for Body worn camera and accessories.	CA
34.	Password Protection	Device to be administrator Password protected	D
35.	Shock & damage resistance during use	As per Class LI 1 of JSS 5855-11:2019 or latest.	CA
36.	Mounting System	Clip/ Belt/ Harness	D
37.	Charger/Charging System	Compatible	D
38.	Colour of Camera	Black/Olive Green	D

Ser No	<u>O</u>	METHOD OF EVAL	
39.	Service Life &	6 Yrs.	V
	Maintenance	2 yrs of warranty and CMC for maintenance through its balance life.	V
40.	Provision of on board GPS launched.	V	
41.	Unique ID for each system the name of the OEM.	V	
42.	The body worn camera OI should be an official valid H listed on HEVC website at paying the license fee for us The same will be verified.	CA	
43.	The MAC Address of the Boname of OEM supplying the	С	
44.	Accessories: Charger/dock frame, data transferring cord	D	

Note: XXXXX

#### **Appendix E**

(Refers to Para 39 of RFP)

#### **COMMERCIAL CLAUSES**

- 1. XXXXXXXX.
- 1.2. XXXXXXXX.
- 1.3 Contract Price and Requirement of Bank Guarantees
  - 1.31. Total Contract Price. XXXXXXX.
  - 1.3.2 <u>Base Contract Price</u>. The Base Contract Price will be considered as Total Contract Price excluding taxes and duties applicable at the time of signing of Contract and excluding the Total Price of CMC.
  - 1.3.3 Bank Guarantee(s). XXXXXXX.
  - 1.3.4 XXXXXX.
    - 1.3.4.1 **Indian Bidder**. XXXXX.
  - 1.3.5 For orders with CMC, an additional Performance Bank Guarantee (PBG) is to be submitted by the Bidder for which the Total Price of CMC for contracted duration will be considered
- 1.4 **Payment to Indian Bidders.** XXXXX.
  - 1.4.1 Advance Payment. XXXXX
  - 1.4.2 On Dispatch. XXXXX
  - 1.4.3 XXXXX
  - 1.4.4 On Final Acceptance and Installation/Commissioning XXXXX
  - 1.4.5 **Part-Dispatch/Part-Shipment**. XXXXX
  - 1.4.6 Payment of Taxes and Duties. XXXXX
  - 1.4.7 Exchange Rate Variation. XXXXX
  - 1.4.8 **CMC Payments**. Annually payments will be made by PCDA/CDA on submission of user clearance certificate through issue of cheque/ECS.
- 2. XXXXX

- 3. XXXXX
- 4. XXXXX
- 5. XXXXX
- 6. <u>Performance Bank Guarantee for CMC</u>. The Bidder will be required to furnish a Performance Guarantee by the way of a Bank Guarantee of a sum equal to 3% of the Total Price of CMC for contracted duration prior to expiry/return of the PWBG of the Main Contract. Performance Bank Guarantee should be valid for 03 months beyond the period of the CMC. The format of the performance Bank Guarantee is to be as per **Annexure III to this Appendix**.
- 7. <u>Payment Deductions and Damages for Shortfalls in CMC Services</u>. In case the cumulative downtime exceeds 30 (working days) in a year, payment will be deducted. The total downtime will be calculated at the end of the year and payments will be deducted. The total payments to be deducted will be calculated as follows:-
  - (a) Payments would be deducted on pro-rate basis for the duration, by which cumulative downtime exceeds 30 (working days), as follows:-
    - (i) Per year CMC =  $X_1$
    - (ii) Period by which cumulative downtime exceeds the specified cumulative downtime, in days =  ${}^{\circ}Y_1{}^{\circ}$
    - (iii) Payment Deduction =  ${}^{\cdot}Z_1{}^{\cdot}$ , Where  $Z_1 = [(X_1/\text{Number of days in the year}) * Y_1]$
  - (b) In addition, damages would be deducted to the sum of 0.1% of the per annum CMC cost per day, for the duration, by which cumulative downtime exceeds the maximum permissible cumulative downtime per year, subject to the maximum value of this damages not being higher that 5% of the annual CMC cost.

#### Appendix F

(Refers to Para 39 and 48 (b) of RFP)

#### **EVALUATION CRITERIA AND PRICE BID FORMAT**

#### 1. XXXXX

2. <u>Price Bid Format</u>. The Price Bid Format is given below and Bidders are required to fill this correctly with full details. No column of the Bid format has to be left blank. The clubbing of serials/sub serials to indicate a consolidated cost is not acceptable. Columns of 'quantity', 'unit cost', 'total cost (including all taxes and duties)', 'GST/IGST (%) and Custom Duty (%) are to be filled up with '0', 'positive numerical values' or 'Not Applicable' at every row as applicable. If any column is not applicable and intentionally left blank, the reason for the same has to be clearly indicated in the remarks column.

Ser	Items	Qty	Unit Cost	Total Cost (iii) x (iv)	Indicative Rate of Taxes & Duties used to arrive at Total Cost (as applicable)  GST/ Custom IGST (%) Duty (%)		Total Cost (including all taxes & duties) (v) + (vi) +(vii)	Remarks
(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)	(ix)
A. B.	Cost of <b>Basic Equipment.</b> Full break-up details should be given. Cost of <b>Warranty</b> for additional	(***)	(21)		(12)	(,11)	( )	(-22)
	12 Months							
C.	CMC Cost giving year-wise break-up.							
D.	Any other cost (to be specified).							
E.	Freight and Transit Insurance Cost (where applicable).							
F.	<b>Total Cost</b> (Total of Serial A to F)						#	# This will be used in determini ng L1 vendor (duly applying provision s of Para 1 above).
G.	Foreign Exchange component of the proposal.							
H.	CDEC (if applicable), its authority and amount for which required.							

Note: Taxes and Duties. XXXXXXX

Appendix G (Refers to Para 44 of RFP)

#### **STANDARD CONDITIONS OF RFP**

**LAW** 

XXXXXXXX

**Appendix H** (Refers to Para 6 of RFP)

#### **CRITERIA FOR VENDOR SELECTION / PRE-QUALIFICATION**

xxxxxxx

Appendix J (Ref Para 33 of RFP)

#### **GUIDELINES FOR FORMULATION OF DRAFT ATP**

XXXXXX

#### Appendix K

(Refers to Para 45 of RFP)

#### DOCUMENTS TO BE SUBMITTED BY THE BIDDER ALONG WITH THEIR TECHNO-COMMERCIAL PROPOSALS

XXXXXXX

#### Appendix L

#### **GLOSSARY**

XXXXXXX

Appendix M (Refers to Para 29a of RFP)

#### **CERTIFICATE: MALICIOUS CODE**

(TO BE RENDERED ON THE COMPANY LETTER HEAD)

1. does n	This is to certify that the Hardware and the Software being offered, as part of the Contract, not contain embedded malicious code that would activate procedures to:-							
	(a) Inhibit the desired and designed function of the equipment.							
	(b)	Cause physical damage to the user or equipment during the exploitation.						
	(c) Tap information resident or transient in the equipment/networks.							
_	ge, loss	irm will be considered to be in breach of the procurement contract, in case physical of information of infringement related to copyright and Intellectual Property Rights used due to activation of any such malicious code in embedded software.						
		(Signed)						
		(Designation/Name/Address of firm)						
Date :								
Place	:							

#### Appendix N

(Refers to Para 30a of RFP)

#### PRODUCT SUPPORT

#### **Maintenance Contracts**

- 1. Maintenance of the equipment would be carried out by Comprehensive Maintenance Contracts (CMCs) for a period of at least **four years beyond the warranty period**. The CMCs would be provided by the OEM / licensed entity / OEM authorised representative and would commence on completion of warranty period.
- Comprehensive Maintenance Contracts (CMC). Comprehensive Maintenance Contracts are concluded for a **period of four years**, in multiples of Annum. The scope of CMC, in addition to services of the Specialists as mentioned for AMC, include provisioning of spares, tools and equipment as required for Maintenance and Repair of the equipment. In this arrangement, the OEM will ensure that the down time of the equipment does not exceed the minimum period stipulated in the CMC. In such cases, Engineering Support Package may be reduced proportionately based on the operational requirements and functional sensitivities such as geographical spread, remote location, poor connectivity, intense threat environment precluding employment of civil support, etc. CMC will include all corrective and preventive maintenance of the systems, equipment and machinery in satisfactory working order and 'Planned Preventive Maintenance' (PPM), repairs, servicing, calibration, replacement of defective parts, sub-assemblies, equipment, preservation /de-preservation as applicable. All equipment supplied under the proposed contract will be maintained on site by the Seller. CMC will ensure performance of the equipment in the range and accuracies as set in equipment Technical Manual. The equipment proposed to be under CMC would be listed along with their locations. An equipment repair Log book will be maintained to keep a record of the equipment down time during defect rectification. The scope of work would also involve the following:-
  - (a) <u>Preventive Maintenance</u>. The maintenance of the equipment is to be carried out by the Bidder at the Buyer premises. The equipment will be maintained as per the OEM specified maintenance schedules and equipment manuals. However, the number of visits by the Bidder to the customer premises should be at least **once a quarter** or as agreed to in the contract. The preventive maintenance team visiting the unit should be composite and possess sufficient expertise and spares to carry out preventive maintenance activities and resolve any pending unserviceability issues of the equipment.
  - (b) <u>Breakdown Maintenance</u>. In addition to preventive maintenance, the Bidder will also be responsible to undertake breakdown maintenance of the equipment. Defects on the equipment as and when observed, will be intimated to the Bidder by telephone/ fax. The Bidder will depute a team for undertaking repairs of the equipment within **two working days** from the reporting of the defect, in order to make the equipment operational within **seven** (07) days of the reporting of defect. The Bidder will need to diagnose, test, adjust, calibrate and repair / replace the goods/equipment during the CMC period. However, defective hard disks, strong devices, if any, of the equipment, will not be returned to the Bidder and would be retained for destruction / safe custody. The downtime of the equipment will commence from the time a defect is reported by the user and the log of the same would be maintained by both **Buyer and Bidder**.

- (c) <u>Calibration</u>. Periodic inspection and calibration services as set forth in the equipment manual shall be provided by the Bidder, to ensure operational availability of the equipment. Requisite certificates may be rendered whenever major repairs/maintenance on equipment is undertaken.
- (d) **Spares.** Supply of all parts (spares sourced from the OEM/OEM authorised vendor), including consumables, if any and material required for the optimal performance of the equipment as per the designed specifications mentioned in the equipment manual would be the responsibility of the Bidder.
- (e) <u>Software</u>. The Bidder will provide support for maintenance of the software(s) during the period of CMC and would include the following:-
  - (i) Upgrades, patches, fixes to the OS and the Application software.
    - (ii) Back-up and restoration of software, as and when required.
    - (iii) No malware certificate.
    - (iv) Version of the software and IV & V (Independent verification and validation) certificate as per the applicable CMM Level, depending on the criticality of the equipment.
- (v) Method of checking the health of the software and debugging methods.
- (f) Obsolescence Management. The obsolescence management for the equipment delivered under the scope of contract would from part of CMC Services. The obsolescence management will include providing "Form, Fit and Function" replacement of any system/sub system rendered obsolete during the period of CMC.

#### Active Technology Obsolescence Management (where applicable)

- 3. Bidder is to indicate the methodology on how the Bidder intends to undertake Active Obsolescence Management through life cycle of equipment which would include upgradation of systems/ subsystems/ units on completion of its fair service life. The Bidder/OEM (as applicable) shall also intimate the Buyer on likely technology obsolescence of various sub-assemblies/units/modules of equipment through an Annual Bulletin. In case of impending obsolescence of components, bulletin should specify either alternate item or option for life-time buy as under:-
  - (a) The Bidder/OEM (as applicable) will notify the Buyer not less than three years before the closure of its production line about the intention to close production of equipment for provision of purchasing spare parts, before closure of the said production line.
  - (b) Three years prior to completion of design/service life of equipment, the Bidder/OEM (as applicable) will submit techno-commercial proposal for upgradation of equipment, wherever applicable, to mitigate technology obsolescence and for ensuring product support for next 15 years.