ज्ञापांक 109/408628 / आपर्ति 70-1-5-2016

पुलिस महानिदेशक का कार्यालय, बिहार, पटना

पटना,दिनांक—28/01/19

सेवा में.

निदेशक. सूचना एवं जनसम्पर्क विभाग, बिहार, पटना।

अल्पकालीन पुनर्निविदा आमंत्रण सूचना सं0-30/2018-19 के प्रकाशन के संबंध विषय-

निदेशानुसार उपर्युक्त विषय के सबंध में अल्पकालीन पुनर्निविदा आमंत्रण सूचना सं0-30 / 2018-19 की प्रतियाँ भेजते हुए अनुरोध है कि इसे राज्य एवं राज्य से बाहर के प्रमुख समाचार पत्रों में (अंग्रेजी एवं हिन्दी) के अगले दो संस्करणों में प्रकाशित कराने की कृपा की जाय साथ ही पी0आर0डी0 वेबसाईट पर भी प्रसारित करने की कृपा की जाय।

इस निविदा आमंत्रण सूचना का प्रकाशन किन-किन समाचार पत्रों में किया गया

इसकी सूचना देने की कृपा की जाय।

अन्0-यथोपरि।

पुलिस महानिरीक्षक के सहायक (क्यू0), बिहार, पटना

प्रतिलिपि:-

- 1. आई०टी० मैनेजर, पुलिस महानिदेशक का कार्यालय, बिहार, पटना को कुपया सूचनार्थ। कुपया इसे आज ही वेबसाइट पर अपलोड किया जाय। साथ ही Indian Trade Journal, Kolkata के अंक में प्रकाशन हेत् Government of India, the Controller of Publications, Civil Lines, Delhi: 110 054, (Tel No. 011-23812527, FAX: 011-23817846), Email Idsk.mondal.dgcis@nic.in के पतेपर भी अनिवार्य रूप से भेजा जाय।
- 2. Government of India, the Controller of Publications, Civil Lines, Delhi: 110 054, (Tel No. 011-23812527, FAX: 011-23817846), Email Idsk.mondal.dgcis@nic.in को कृपया सूचनार्थ एवं आवश्यक क्रियार्थ प्रेषित। अनुरोध है कि उक्त निविदा का प्रकाशन Indian Trade Journal, Kolkata के अंक में करने की कृपा की जाय।

पुलिस महानिरीक्षक के सहायक (क्यू0), बिहार, पटना

Police Headquarters, Bihar, Patna Notice Inviting Short Re-Tender No.-30/2018-19

- 1. Name of the Department: Office of Director General of Police, Bihar, Patna.
- 2. Last date & time for the acceptance of the short re-tender: 12/02/2019, Till 02:00 PM
- 3. Date & time fixed for the opening of the short re-tender: 12 /02 /2019, At 04:00 PM
- 4. Place fixed for receiving & opening the tender: Office of Director General of Police, Bihar, Patna.
- 5. Details of Job:

S.N.	Item name	Quantity
1	Noise Measurment Equipments	20
2	Chilli Grenade	1000
3	Tactical Throwable Camera	02
4	Dual Frequency Mines Detector	02
5	Hand Cuff	5000

Specifications and other terms & conditions of the tender may be obtained in person from this office or may be downloaded from the website www.prdbihar.gov.in or www.biharpolice.bih.nic.in.

AIG (Q) Bihar, Patna

Terms & Conditions of Short Re-Tender No.-30/2018-19

- 1. Tender of the firm will be accepted only on the condition that if their tenders are approved, the firm shall get registered with the Commercial Tax Department, Bihar, before the purchase order is issued.
- 2. The tender should be submitted in two parts: (i) Technical Bid and (ii) Financial Bid, duly sealed in two separate envelopes super-scribed as "Technical Bid" and "Financial Bid".
- 3. All relevant papers/ E.M.D./certificates/specifications etc. of items should be enclosed in the Technical Bid.
- 4. The rates of the items shall be quoted in the Financial Bid only.
- 5. All charges like IGST/CGST/SGST etc. shall be clearly mentioned in the Financial Bid and the net rate (in figures and words) including all taxes and duties must also be quoted. Vague offers like indicating taxes "as applicable" will not be accepted.
- 6. The rates of the items shall be quoted in the Financial Bid in two parts:
 - (i) With AMC (Annual Maintenance Contract) and (ii) Without AMC
- 7. There should be no cutting, over writing or correction on the rates.
- 8. The technical and financial bids for each item should be submitted separately in separate envelopes. The technical and financial bids for more than one items submitted together in the same envelope shall not be accepted.
- 9. If the financial bid is submitted in the same envelope containing the technical bid then also it shall be summarily rejected.
- 10. The technical and financial bids should be put in two separate sealed envelopes and the envelopes should be marked Short Re-Tender No-30/2018-19 (Technical Bid) and Short Re-Tender No-30/2018-19 (Financial Bid) along with the name and address of the firm. The sealed envelopes containing the technical and the financial bids should be sent in another sealed envelope which should be marked as Short Re-Tender No-30/2018-19. This envelope should not bear the name and address of the firm.
- 11. Income Tax Returns of last three years, a photocopy of GST registration number of the participating firm and turn-over of any two of the previous three financial years should be submitted with the technical bid. It should be specifically mentioned whether IT return has been filed manually or electronically.
- 12. The turnover of the firm for the last reported financial year should be at least equal to the amount of the supply order which is being issued. A copy of the profit and loss Account of the firm for any two of the previous three financial years, certified by a Chartered Accountant should be submitted along with the tender. If the tenderer is authorized dealer or authorized supplier of manufacturing firm, then the certified details of the turnover of authorizing firm may be accepted. Tender specific authorization from the OEM must be submitted, but in certain cases where authorization from OEM is not required, the Technical-cum-User committee (T.U.C.) shall decide about exemption (if any) on a case-by-case basis; citing appropriate reasons for the same.
- 13. If there is some discount in the price of any item, it should be deducted from price itself and such discounts should not be quoted separately.
- 14. If the product is available on DGS & D rate contract, then a copy of the contract must be attached and pricing be done including all taxes.
- 15. A copy of the test report for the product issued by any established and recognized private Laboratory or by agency accredited by the Government should be attached with the technical bid. However if required, the Technical-cum-User committee (T.U.C.) can take decision regarding exemptions/relaxations (if any), citing appropriate reasons.

- 16. In case of Bullet Proof/Bullet Resistant items, test report of TBRL or any Government Approved/Recognized Laboratory is compulsory.
- 17. Firms participating in this tender shall also submit duly sworn affidavit to the effect that " this firm has not been black listed/debarred by any Government or Semi Government or Private Agency and no sister concern of this firm is participating in this tender."
- 18. Firms participating in this tender shall also submit the self attested list of users of its equipments.
- 19. All items shall be received at Central Clothing Store, Patna; therefore price should be quoted FOR Central Clothing Store, Phulwari Sharif, Patna.
- 20. Firms will have to deposit a sum of Rs.50,000/- (Fifty Thousand) only as an earnest money deposit in the form of Bank Draft duly pledged in favor of the undersigned along with the quotations. The small scale units located in Bihar shall not be liable to deposit earnest money. Exemption from submitting E.M.D. will also be available to those who are registered with the Central Purchase Organization/State Purchase Organization and National Small Industries Corporation (NSIC).
- 21. Technical Bids will be opened on scheduled date and time in the office chamber of Police Headquarter. Representatives of the firms competing in the tender may remain present at the time of opening of the technical bid.
- 22. The technical bids will be opened first and placed before the Technical Committee of the Police Headquarters, Bihar. If the technical bids are found satisfactory as per tender conditions, it will be put before Central Purchase Committee of the Police Headquarters, Bihar. The firms may be required to participate in the demonstrations of the quoted product and discussions with this committee.
- 23. Any paper/document will not be accepted after opening the tender.
- 24. Successful firm will have to enter into an agreement after depositing a sum of 5% of the total value of the order as security money in the form of Bank Guarantee duly pledged in favor of undersigned.
- 25. The firm will be required to provide satisfactory after-sales service after the delivery of the product.
- 26. The firm will be required to supply all the items within the stipulated time frame as mentioned in the purchase order.
- 27. Payment for the delivered items will be made only after the acceptance report of the Inspection Committee of the Police Headquarters, Bihar.
- 28. The firm whose quotation is approved by the Central Purchase Committee of the Police Headquarters, Bihar, shall be invited to enter into an agreement with the undersigned.
- 29. It is expected to submit the duly filled chart attached herewith, along with the technical bid if not the tender shall be summarily rejected.
- 30. Indexing of the requisite documents must be done and submitted along with the technical bid.
- 31. Hands on training for 3 weeks of the equipment must be imparted to the user group by the firm after successful installation.
- 32. Director General of Police Bihar, Patna reserves the right to reject any or all the quotations partially or fully, without assigning any reason thereof.
- 33. The Quantity indicated may increase or decrease at the time of issuing purphase order.
- 34. The bids must be include the data sheet of individual item.

AIG(Q) Bihar, Police.



Appendix -'A'

The Sub-group of Technical Experts on Surveillance Equipment's constituted by MHA vide their letter No. IV-1017/18/2001-Prov-I dated 05 Jul 2002 held its meeting at BSF Headquarters on 02nd Dec 2014, 12th Jan 2015, 12th Feb 2015 16th June 2015, 20th Nov 2015, 1st Feb 2016, 11th April 2016, 11th May 2016, 31st May 2016, 15th June 2016 and 15th July 2016 to formulate the QRs of 'Ground Penetrating Radar (Hand Held)'.

After detailed deliberations the referred Sub-group has finalized the QRs of 'Ground Penetrating Radar (Hand Held)' which are as under:-

QUALITATIVE REQUIREMENT OF 'GROUND PENETRATING RADAR' (Hand Held)

S No.	PAR	RAMETER	SPECIFICATION			
1	Feat	ures				
ı		like IEDs, F	system should be capable to detect metallic and non-metallic threats Pressure plates and mines (Anti-Personnel & Anti-Vehicle) etc.			
	////	The syster	m should provide GPR data in real time to the operator to detect and mark IEDs or suspicious objects.			
2	ATR	& Alarm	Must contain automatic target recognition feature which will provide audio clue as well as visual clue on LCD screen to the operator.			
3	Self-t	est	The system should have self-test feature to ensure the system operating properly.			
4	Phys		The system should be a Hand Held GPR System. The weight of the GPR system should not be more than 5 Kg.			
5			nnical features: Hand Held GPR system:			
			cal & technical features of the hand held unit are:			
	(i)	The system detection swath width should be 45 cms (minimum) and detection range 50 cms (minimum) underground.				
	(ii)	The sensor head should be attached to a ruggedized telescopic rod assembly suitable for a standing person to scan the area.				
	(iii)	Control unit should have facility to control the sensitivity of detection and audio volume.				
	(iv)	The syste	m should be able to plot the threat on LCD screen in real time.			
	(v)	It should give accurate threat position and depth information with a tolerance of				
	(vi)	It should have uniform and continuous detection throughout the sensor swath				
	(vii)	ii) It should have modes i.e. metal detection mode, GPR mode and combined				
	(viii)	It should have automatic soil compensation feature for use in mineral soil				
	(ix)	it must be	canable to detect all type of mines/IEDs in all soil conditions.			
	(x)	The audia	slam should be through inbuilt buzzer / speaker and nead phone.			
	(xi)	The syste	The system should be operated on rechargeable battery. The battery should run the system for minimum 8 hrs continuously on single charge.			
	(xli)	A suitable	 battery charger should be provided to charge the battery/ batteries (maximum). 			
	(xiii)	1				
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	(xiv)	Optional Requirement (To be specify by the user at the time of indent)			
			or inbuilt memory system of minimum 4 GB.		
6	Trans	sportation	A ruggedized transportation box with water proof canvas carrying case should be provided which accommodates the system with all accessories comfortably.		
7	EMI	& EMC	The system must confirm to lay down EMI and EMC specifications.		
8	Envir	onmental Specification:	i) Operational temp: -20°C to 55°C ii) Storage temp: -40°C to 70°C		
9	Syste	m Ruggedness	The system (GPR) must conform to Mil STD 810F.		
10	Spare	e Batteries	For one additional cycle of operation, required batteries be provided.		
11	User Manual and Operation Instructions		Detailed instructions technical literature with schematic diagram, maintenance manual and Inspection standards be provided with the equipment.		

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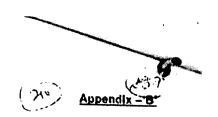
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RECOMMENDED/ NOT RECOMMENDED

(K K SHARMA) IPS DIRECTOR GENERAL BORDER SECURITY FORCE



TRIAL DIRECTIVES FOR GROUND PENETRATING RADAR (HAND HELD)

S No.	PARAMETER	SPECIFICATION	Procedure suggested for trial for Board of Officers	Result expected / desired	Complied / Not Complied
1.	Features	i) The GPR system should be capable to detect metallic and non-metallic threats like IEDs, Pressure plates and mines (Anti-Personnel & Anti-Vehicle) etc.	metallic objects like IEDs, pressure plate etc, underground in specific depth.	detect metallic and non-metallic threats like IEDs, Pressure plates and mines	Complied
		ii) The system should provide GPR data in real time to the operator to detect investigate and mark IEDs or suspicious objects.	detection of IEDs or suspicious objects by displaying the data in real time on LCD screen to investigate and mark the threats.	The system must provide GPR data in real time to detect, investigate and mark the IEDs or suspicious objects.	
2.	ATR & Alarm	Must contain automatic target recognition feature which will provide audio clue as well as visual clue on LCD screen to the operator.	underground and check the system for audio & visual alarm. Check the system for automatic target recognition feature while detection.	 It must give audio clue as well as visual clue on LCD screen to the operator. It must also have the feature of automatic target recognition for threat confirmation. 	
3.	Self-test	The system should have self- test feature to ensure the system operating property.	Switch 'ON' the system and put it in self-test mode to ensure proper operation of the system.	The system must have self-test feature to ensure the system operating properly.	et deutsche detten der den verschieben zu anderen zugen
4.	Physical	The system should be a Hand Held GPR System. The weight of the GPR system should not be more than 5 Kg.	Check the system provided by the firm as per the user requirement of	The system provided must be as per the user requirement. Weight of GPR should be less than 5 kg.	Agents of the second se
5.	Physical & Technical features	Hand Held GPR system The detail physical & Technical features of the hand held unit are:-			
		(i) The system detection swath width should be 45 cms (minimum) and detection range 50 cms (minimum) underground. (ii) The sensor head should be	and check the detection range of an object dig underground.	The system detection swath width must be 45 Cms (min) and detection range 50 Cms (min) underground. The sensor head must be supported by ruggedized telescopic rod	and the same and t

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attached to a ruggedized telescopic rod assembly assembly. A standing person should be able to scan the area with the help of the system comfortably. assembly A standing person assembly for scanning the area.
(iii) Control unit should have facility to control the sensitivity of detection and audio volume. Switch 'On' the system and check the detection of an object. Change the sensitivity of detection and observe its effect on detection. Check also the volume control for alarm audio.
(iv) The system should be able to plot the threat on LCD screen in real time. iv) The system must display the threat in real time on LCD screen. i.e (LCD screen).
(v) It should give accurate threat position and depth information with a tolerance of ± 5 cm. v) Place a known target underground at a known depth and depth information with in deviation of +- 5 cm.
(vi) It should have uniform and continuous detection different locations under the swath width. Vi) Check the detection of a target at different locations under the swath width by keeping the position of detector swath fixed.
(vii) It should have modes i.e. metal detection mode, GPR mode and combined mode. Vii) Switch 'ON' the system and put it in different modes as mentioned in the QRs Para and check the performance in each of the mode one by one.
(viii) It should have automatic soil compensation feature for use in mineral soil environment. Viii) Check the system performance in different soil conditions like in sand, in available soil, in wet soil compensation feature to neutralise the mineral soil environment and perform effectively without affecting the sensitivity.

(ix) It must be capable to detect ix) Check the detection of the ix) It must be capable to detect all type of system for available mines/IEDs indifferent soil conditions in Para (viii).
(x) The audio alarm should be x) Check the detection alarm in x) The system must give audio alarm through inbuilt buzzer / system control unit and also through inbuilt buzzer / speaker and head phone.
(xi) The system should be operated on rechargeable battery. The battery should run the system for minimum 8 hours continuously on single charge. xi) Physically check the system on rechargeable battery provided. Check the continuous run time of the system on fully charged rechargeable battery provided and note down the continuous run time.
(xii) A suitable battery charger should be provided to charge with the battery charger provided with the system and note down the time to get fully charge.
(xiii) The charger should have the provision to charge the battery from 100 V to 240 V AC mains supply and DC source from 12V to 24V. Xiii) Check the battery charger provided must have the facility to charge the battery from 100 to 240 volts. Also check the charger operation on DC source from 12 V to 24 V.
(xiv)Optional Requirement (To be specify by the user at the time of indent) The system should have data storage facility through external memory card of 16 GB or inbuilt memory system for data inbuilt memory system for data storage. Xiv) Check the system for the facility xiv) The system must have data storage facility through either external memory card of 16 GB capacity or internal inbuilt memory system of minimum 4 GB.

		and water proof canvas carrying case should be provided which accommodates the system with all accessories comfortably.	canvas carrying case for accommodation of system with all accessories. Check the National/International accredited lab certificate/report in respect of ruggedness of transportation box. Check the canvas carrying case for water proofing.	system with all accessories comfortably. The firm must provide the National/ International Accredited lab certificate/report in respect of the transportation box. In case of any	
7.	EMI & EMC	The system must confirm to lay down EMI and EMC specifications.	Check the National/International accredited lab certificate/report in respect of the same.	The firm must provide the National/ International Accredited lab certificate/report in respect of EMI & EMC specifications. In case of any doubt in the test report, the veracity of the same may be checked from the concerned lab.	
8.	Environmental Specification:	i) Operational temp: -20°C to 55°C ii) Storage temp: -40°C to 70°C	Check the National/International accredited lab certificate/report in respect of the same.	The firm must provide the National/ International Accredited lab certificate/report in respect of the same In case of any doubt in the test report, the veracity of the same may be checked from the concerned lab.	
9.	System Ruggedness	The system (GPR) must conform to Mil STD 810F.	Check the National/International accredited lab certificate/report in respect of the same.	The firm must provide the National/ International Accredited lab certificate/report in respect of the same. In case of any doubt in the test report, the veracity of the same may be checked from the concerned lab.	
10.	Spare Batteries	For one additional cycle of operation, required batteries be provided.	Not to be evaluated at the time of physical evaluation.	-	

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यह माईल्ड स्टील का डिफेंश Specification आई०एन० /जी०एस०–1493 के अनुरूप होगा। 20 (बीस) हथकडियों का बंच का ताला एक दूसरे से नहीं खुलेगा।

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Specification of Decible Meter (Noise Meter)

> Range : 20-140 dB RMS (143, 3dB peak)

> Frequency Weighting : A Weighting

> Time Weighting : Fast, Slow and impulse simultaneously

> Standards : IEC61672:2002 Class

➤ Total Nose Floor : 19dB(A) Class

> On/Off times : 6 sets with selectable times and a repeat function

> Weight : Less than 350gms including battery

Memory: Minimum 2GB internal and should have provision

for external expandable memory.

> Audio Recording :

Low Quality : 8000 samples's @ 7bitf74kb(s)up to 4khz High Quality : 24000 samples/s @ 8 bit(192kb/s)up to 12khz

> Should be GPS Enabled/

inbuilt

> Battery : Rechargeable battery with minimum ten hours

operation at capability and low battery indicator

Printer : To be provided (Dot matrix)

Climatic/Temp Range: Climatic conditions of Rajasthan Bibar

> Calibration : Factory Calibrated with traceability to NPL Field

calibration with certified optional calibrator.

> Language : English.

3/8

Specification of Chilly Grenade

Technology type: Non explosive/Non Ammunition - Aerosol Based

Release Mechanism - Actuator based
Discharge type - Aerosol spray

> Safety: Over cap on actuator for prevention of accidental release

> Active ingredient : Oleoresin Capsaicin (O.C.)

> Discharge time: 15-20 seconds

Movement : Zig Zag movement on hard surface on actuation

> Shelf Life: 3 years

➤ Volume : 250+/- 20 ml per hand grenade

Packing: 20 Hand Grenades packed in one Carton weighing approx 5 kgs.

3/8

<u>Director General Border Security Force</u> (<u>Provisioning Directorate</u>)

The Sub-group of Technical Experts on Surveillance Equipments constituted by MHA vide their letter No. IV-17017/18/2001-Prov-I dated 05 Jul 2002 held its meting at BSF headquarters on 25 Aug 2011, 02 Sep 2011, 27 Sep 2012 & 29 Nov 2012 to formulate the fresh QRs of Video Surveillance Ball as desired by MHA vide their letter No. IV-21011/4/2010-Prov-I dated 09 Jun 2011.

After detailed deliberations the referred Sub-group has finalized the QRs of Video Surveillance Ball which are as under:-

General

- 1. Sensor: The video surveillance ball should have following features
 - a) It should have audio and video svl capacity
 - b) Should be rugged enough to survive a "throw" or "roll" of more than 20 mts with landings in rough terrain, concrete, piles of debris, or through windows.
 - c) 360° audio and video coverage
 - d) Continuous operation up to 2 Hrs
 - e) Night vision capability.
- Receiver: The portable Remote Display Unit should have a TFT display of minimum five inches or more with inbuilt DVR capability to record and play back. This should have output facility for recording on external device.

3. Technical Specification

Ser No	Features	Specifications	Remarks by vendors/Firms
(8)	Image sensor		
1~	(i) Resolution	More than 450 TV lines	
	(iv) Frame rate	Line Video minimum 25 fps	
	(v) Shutter operation	Automatic	
		· · · · · · · · · · · · · · · · · · ·	ontd 2/-

b) Audio Microphone i) Audio mike detection Omni directional ii) Sensitivity of audio should detect human voice from mike 5 m or more iii) Squelch Automatic squelch to decrease noise c) Video and Audio Transmission i) Indoor transmission 25 mtr minimum dist ii) Outdoor transmission 100 mtr minimum dist iii) Frequency of control and feed back link/net d) Illumination Illumination by using near	
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wavelength infrared LEDs	
ii) Illumination distance 5 mtr or more	
iii) Light sensor Automatic and manual control	
of illuminating light depending	
on light condition of target area	
e) Camera	
i) Camera Range of sensor Less than 1meter to 20 m or	
ball more	
ii) Pan and Zoom Pan 360, 2x Digital Zoom, day/night camera.	
f) Mechanical specifications	
i) Dimensions of Ball unit 100 mm Diameter or less	
ii) Weight 1 Kg (max)	
iii) Stabilization and Quick self stabilization	
Motion	
g) Power source	
i) Rechargeable battery LiON/LIPO	
ii) Battery operation Ball Unit. Minimum 2 Hrs	
capacity PDU: Minimum 3 Firs	
iii) Battery Charger For PDU and Sensor	
in) Rettery charging time Less than 4 hours	
Battery Charger input 220V, 50 Hz AC Mains and	
provision for Charging from the	
vehicle.	
Contd	L3/-

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h)	Remote display Unit with	The portable Remote Display	· · · · · · · · · · · · · · · · · · ·
*'/	system software	Unit should have a TFT display	
	System sommate	of minimum five inches along	
	•		,
1	O-1	with the system software	
i)	Output connection	S - Video/AV and earphone	
<u></u>	connectors for audio		
1)	IP Standard for Ball units	IP 65 or better	
k)		cessories to be supplied with each	
1 1	system in hard carrying case:		
	 Throw able camera 	ball	02
1 1	ii) Training ball -		01
	•	Control Unit with Jacket and bty	01
1	charger	•	
	iv) Camera Ball Charge	r	02
]	v) Head phones		01
	vl) Telescopic pole with	adaptor '	01
	vii) Spare Powering pin	02	
1 1	viii) User Manual	01	
	ix) Quick Reference Gu	01	
	x) Ground Spike	•	01 .
1		row able camera ball	01 -
	xii) Tripod		02
	xiii) Retrieval rope		02
1)	Additional battery charger	for PDU and Ball units per	01 x each
'	deployment kit	A second	charger for
			PDU and Ball
			uruit
m)	Carrying case		
	A single soft backpack	type carrying case housing the	•
	somplete equipment and its a	ccessories less the pole. A soldier	
'	should be able to carry the equ		
	It should be preferably of came	ouflage pattern	
	It divoid be pr		

Misc Aspects

4. <u>Literature</u> Operating and Technical literature for each discrete components of system should be in English language

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5.

Demonstration and Training Demonstration of one set of complete system with its full accessories to be given in Delhi on no cost no commitment basis. In site training of users for three day on operation, maintenance, fault finding and user level repairs.

Warranty Comprehensive warranty for 1 year.

Annual Maintenance Contract/Repair Cover The vendor will provide AMC for 3 yrs after expiry of the warranty. The manufacturer shall guarantee to complete repairs and return the equipment to the customer within 30 days of reporting the fault, during the period the eqpt is under warranty/AMC Repair cover to be made available ex Delhi

(A Chaturvedi) Col, NSG

(D P Mishra) PSO, BPR&D

AC, CISF

(Venu Kumar K M)

Shud 38.11.1 (B C Joshi) DC (AIA), BSf

(Ravindra Nath) 51/Tech

Jt. Dir, DCPW

DC(MT/Ord), CRPF

DIRECTOR GENERAL BORDER SECURITY FORCE



TRIAL DIRECTIVE FOR VIDEO SURVEIL LANCE BALL

General:

- 1. Sensor: The video surveillance ball should have following features. (The following features are required to be checked physically by the Board of Officers/STEC)
 - a) It should have audio and video svl capacity
 - b) Should be rugged enough to survive a "throw" or "roll" of more than 20 Mts with landings in rough terrain, concrete, piles of debris, or through windows.
 - c) 360° audio and video coverage.
 - d) Continuous operation up to 2 Hrs.
 - e) Night Vision capability.
- 2. Receiver: The portable Remote Display Unit should have a TFT display of minimum five inches or more. (To be checked by the Board of Officers/STEC)

3. Technical Specification

S No.	PARAMETERS	Procedure suggested for trial	Result expected / desired Compiled / Not Compiled
a)	Image sensor		
	I) Resolution:- more than 450 TV lines.	Check the supporting documents provided by the OEM/NABL accredited lab certificate.	Cleck the certificates submitted. In case of any doubt the veracity of same be checked from concerned lab.
	II) Frame rate:- line video minimum 25 fps.	Check the supporting documents provided by the OEM/NABL accredited lab certificate.	the certificates submitted. In case of any doubt the veracity of same be checked

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			from concerned lab.
	III) Shutter operation:- automatic.	Should be checked physically by the Board of Officers,	Shutter operation must be automatic
b)	Audio microphone		automatic
	i) Audio mike detection:- Omni directional.	Should be checked physically by the Board of Officers by checking input from all around.	Mike detection must be from any corner.
**	ii) Sensitivity of audio mike:- should detect human voice from 5m or more.	Should be checked physically by the Board of Officers with the help of measuring tape.	Should detect the human voice from 5 m or more.
	iii) Squelch:- Automatic squelch to decrease noise.	Should be checked physically by the Board of Officers	Must decrease automatically.
c)	Video and Audio Transmission		
	i) Indoor transmission dist:- 25 mtr minimum.	Should be checked physically with the help of measuring tape.	Indoor transmission must be 25 mtr minimum.
	ii) Outdoor transmission dist:- 100 mtr minimum.	Should be checked physically with the help of measuring tape.	Outdoor transmission must be
	iii) Freq of control and feed back link /net : - license free.	Check the supporting documents provided by the OEM.	Check the certificates submitted. In case of any doubt the veracity of same be checked from concerned OEM
d)	Illumination		TOTAL OLIVE,
	i) Illumination wavelength:- illumination by using near infrared LEDs.	Should be checked physically with the help of IR sensor and also Check the supporting documents provided by the OEM.	Check the certificates submitted. In case of any doubt the veracity of same be checked from concerned OEM.
<u> </u>	ii) Illumination distance:- 5 mtr or more.	Should be checked physically in the dark room	Illumination distance must be 5

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		with the help of IR sensor and measuring tape.	mtr of more.
	iii) Light sensor: - Automatic and manual control of illuminating light depending on light condition of target area.	Should be checked physically in the dark room with the different light conditions of target area by the Board of Officers.	The light sensor illumination must adjust automatically as well as manually with light condition of the target area.
e)	Camera		
	i) Camera range of sensor ball:- Less than 1 meter to 20 m or more.	Should be checked physically with the help of measuring tape by the Board of Officers.	Camera range of sensor ball (video surveillance ball) must be less than 1 meter to 20 m or more.
•	ii) Pan and zoom:- pan 360, 2x digital zoom, day/night camera.	Should be checked physically with the help of Integrated Test Station by the Board of Officers.	Pan must be 360 degree and zoom must be 2x digital zoom.
f)	Mechanical specifications		
	i) Dimensions of ball unit:- 100 mm or less	Should be checked physically with the help of measuring scale by the Board of Officers.	Dirpension of ball must be 100 mm or less.
	ii) Weight:- 1 Kg Maximum.	Should be checked physically with the help of weighing machine by the Board of Officers.	Weight not to exceed 1 Kg.
	IIi) Stabilization and motion:- Quick self stabilisation	Should be checked physically by the Board of Officers.	Stabilization must be self and quick.
g)	POWER SOURCE		7
	i) Rechargeable Bty:- Li-ON/ LIPO	Should be checked physically by the Board of Officers.	f Bty must be Li-ON/LIPO.
	ii) Bty operation capacity:- Ball Unit: Min. 2 Hrs PDU: Min. 3 Hrs	 i) Should be checked physically by the Board of Officers. ii) Switch on the ball unit. iii) It must run min 2 Hrs, check with the help of stop watch. 	continuously for two hrs and three hrs respectively.
	iii) Bty Charger:- For PDU & Sensor	Should be checked physically by the Board of	of Bty charger for PDU & sensor

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		Officers.	must be provided.
. •	iv) Bty charging time:- Less than 4 Hrs	Should be checked physically after connecting to AC mains supply. It should charge the bty in less than 4 Hrs.	Charging must be completed in less than 4 Hrs.
	v) Bty charger Input:- 220V, 50 Hz AC mains and provision for charging from the vehicle.	Should be checked physically by the Board of Officers.	Charging input from AC 220 V 50 Hz and also from vehicle battery.
h)	Remote Display Unit with System Software:- The portable Remote display unit should have a TFT display of minimum five inches along with the system software.	Five inch TFT display should be physically checked by the Board of Officers.	The portable Remote display unit must have a TFT display of minimum five inches along with the system software.
1}	Output Connection:- S-Video/ AV & Earphone connection for Audio	Should be checked physically by the Board of Officers.	Must have Output Connection , S-Video/AV & Earphone connection for Audio.
J)	IP Standard for Ball units:- IP 65 or better.	Check the supporting documents provided by the NABL accredited Lab.	Check the certificates submitted. In case of any doubt the veracity of same be checked from concerned lab.
<)	Accessories: The following accessories to be supplied with each system in hard carrying case: i) Throw able camera ball: - 02 nos. ii) Training ball: - 01 nos. iii) Portable Operator Control unit with Jacket and bty charger: - 01 nos. iv) Camera Ball Charger: - 02 nos. v) Head phones: - 01 nos. vi) Telescopic pole with adaptor: - 01 nos. vii) Spare Powering pin: - 02 nos. viii) User Manual: - 01 nos.	Should be checked physically by the Board of Officers.	Must have all the accessories.

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			مستريا	<i>,</i>
) n)	ix) Quick Reference Guide: - 01 nos. x) Ground Spike: - 01 nos. xi) Door Hanger for Throw able camera ball: - 01 nos. xii) Tripod: - 02 nos. xiii) Retrieval rope: - 02 nos. Additional battery charger for PDU and Ball units per deployment kit:- 01 x each charger for PDU and ball unit. Carrying case A single soft backpack type carrying case	Should be checked physically by the Board of Officers. Should be checked physically by the Board of Officers.	Must have 01 no additional bty charger for PDU and ball unit. Must have soft backpack type carrying case.	
	housing the complete equipment and its accessories less the pole. A soldier should be able to carry the equipment on his back conveniently. It should be preferably of camouflage pattern. (A Chaturvedi) (Venu Kumar K	ym -	(D P(Mishrii) PSO BPR&D	
	(B C Joshi) (Ajit Pfi DC (AIA), BSF AC, ITB	Alemer (Akstrukla) AC, CISF	(Radindra Nath) SI/Tech	**
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