DG 2375

22 AUG 2016

No. IV-P/604/2014 (389)/BWCS/NSG -1262

भारत सरकार/Government of India गृह मंत्रालय/Ministry of Home Affairs

पुलिस आधुनिकीकरण प्रभाग /Police Modernization Division

संभरण-। डेस्क/Prov.I Desk

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In (Bov)

26, Man Singh Road. Jaisalmer House. New Delhi, the 12th August, 2016.

DsG: AR (through LOAR). BSF, CISF, CRPF, ITBP, NSG, SSB & BPR&D.

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Subject: Revised Qualitative Requirements (QRs) and Trial Directives (TDs) of Body Worn Camera System

The revised QRs and TDs in respect of Body Worn Camera System. as per Annex-I and Annex-II respectively have been approved by the Competent Authority in MHA.

2. All the CAPFs should procure the above item required by them strictly as per revised laid down QRs/TDs.

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3. The concerned CAPF will be accountable for correctness of the QRs/TDs.

Encl: As above.

Yours faithfully,

Ram Raj)

Under Secretary (Prov-I)

Tel: 2338 1278

Copy to:

- 1. SO (IT), MHA: with the request to replace the existing QRs and TDs of Body Worn Camera System with the instant QRs and TDs (soft copy attached) on the MHA website (under the page of Organizational Set up-Police Modernization Division-Qualitative Requirement under Communication Equipment list).
- 2. DDG (Procurement), MHA

 M/2/16/16

(V. Devadas) SO (Prov-I)

1166 22/6/16

QRs OF BODY WORN CAMERA SYSTEM

Ser No			and the second of the second o	Qualitative Requirements				
1	Intro	ntroduction						
	(a)	The system is required for body worn application to fetch real time operation awareness from within the target area.						
	(p)	Thasi	suitable enough for body worn equipment of individual					
2	Body	Worn (Camera					
	(a)	Came		n to be provided with two came	eras.			
		(i)	Bullet Body Worn	camera				
		(ii)	Button Body Worn	Camera				
	(b)	The sp	ecification of the Bu	illet Body Worn Cameras is as	under:-			
	1	(i)	Video Pasolution -	750 (H) x 500 (V) or better				
		(ii)	The Body Worn Ca	amera should offer low light cap	pability of .001 lux or better.			
		(iii)	Field of View -	70° or better				
	(c)	The sr	pecification of the Bu	utton Body Worn Camera is as	under:-			
	(0)	(i)	Video Resolution -	750 (H) x 500 (V) or better				
		(ii)	Field of View -	70° or better				
	(4)	Transi	:++					
	(d)			ould be compact and lightweig	ght such that it can be carried			
		(i)	hy a Soldier during	ng operation, in addition to h	nis tactical gear (Bullet Proof			
			1 A I	/ / / / / / / / / / / / /				
		(ii)		COEDMID Mach digital trans	mission technology to provide			
	1	(11)	video transmission	n ranges of 750 meter or	better in Non Line of Signt			
			wisanmant with a	ina ranaatar				
		iii)	E	Mach Transmitter should act as	repeater also.			
	ì	(iv)	The form factor of the transmitter should be compact, with least no of wires and all components should be sandwiched in a single unit except for camera.					
	Į.	()		auld have suitable video in por	ts analog and Ethernet.			
		(v)	The transmitter on	and have the provision of be	ing operated on rechargeable			
		(vi)						
		(vii)	endurance. Spare	rechargeable battery pack to a	er should offer 4 hours of be provided.			
		(viii)	Suitable Battery C through 220 V AC.	harger should be provided to c	charge the transmitter batteries			
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QRS OF BODY WORN CAMERA SYSTEM (Contd...)

Ser			Qualitative Requirements
Ser No			France 15 dogree Calsius to 50
		(ix)	The transmitter should be able to operate from -15 degree Celsius to 50 degree Celsius.
		(x)	The Transmitter should comply to IP 65 level or higher
		(xi)	The transmitter, battery pack, antennas and battery charger should be supplied in suitable pelican box for ease of carriage.
		(xii)	The transmitter should offer 128 bit AES encryption or better to avoid eaves
		(xiii)	Lipiversal interface cable to support a variety of cameras should be provided.
		(xiv)	The transmitter should offer MPEG-2 and MPEG- 4 video compressions of hetter
		(XV)	The transmitter should operate in license free frequency band.
		(xvi)	The Transmitter should offer bandwidth option of 8 Mhz, 6Mhz, 1.25 Mhz or lower.
		(xvii)	The transmitter should offer a latency of 1 sec or lower.
	(e)	Recei	NOT.
		(i)	The receiver should be a diversity receiver to eliminate fade and multi patr
		(ii)	The receiver should have suitable antennas to receive and display three video feeds simultaneously from three transmitters @ 25 FPS or better while other
		(iii)	transmitters are acting as repeaters. The receiver should have provision of high gain directional antennas to enhance the transmission ranges. High gain directional antennas should be supplied with the transmitter.
		(iv)	The receiver should be able to operate on internal battery pack for 6 hours of
			better. There should be a provision to power the Receiver through 220 V AC.
		(vi)	The receiver should have inbuilt DVR to record and play the video surveinance
			feeds for analysis and evidence purposes. The receiver should offer a video out port for further connection with TV.
		(vii)	The receiver with all its accessories should be such that it can be carried by
		(viii)	0.11
		(ix)	The Receiver should comply to IP 66 or better and should be relicant be
		(x)	The receiver should offer IP interface for IP streaming and his
			connections.

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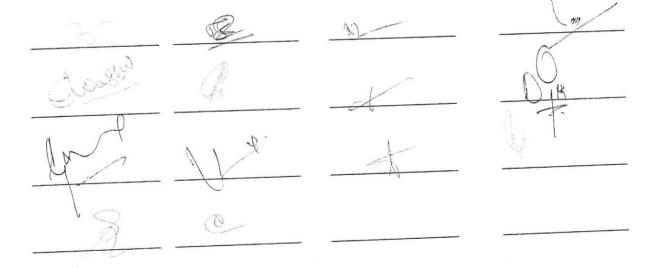
QRs OF BODY WORN CAMERA SYSTEM (Contd...)

Ser No	Qualitative Requirements
NO	= 1 in the start for each discrete components of system
3	Literature Operating and Technical literature for each discrete components of system
	should be in English language
4	Training Demonstration of one set of complete system with its full accessories should be arranged at buyers premises on NO cost NO commitment basis. In situ training of users for three day on operation, maintenance, fault finding and user level repairs.

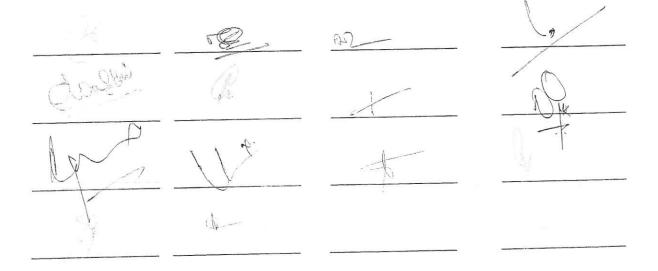
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TRIAL DIRECTIVE OF BODY WORN SVL CAMERA SYSTEM

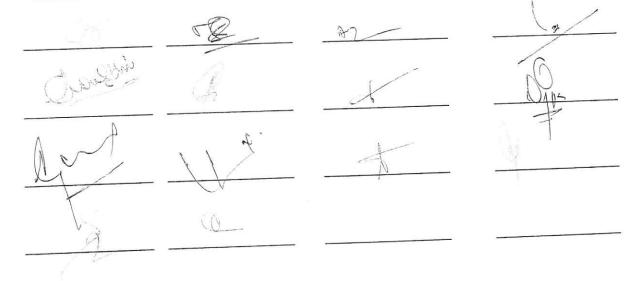
Ser No		Qualitative Requirements	Trial Directive/Procedure				
1.	Introduction						
	(a)	The system is required for body worn application to fetch real time operational awareness from within the target area.	To be checked physically by BOO				
	(b)	The system should be lightweight, covert, compact and suitable enough for body worn application without hindering with personal load carrying equipment of individual.	To be checked physically by BOO				
2.	Body Worn Camera						
	(a)	<u>Camera</u> The system to be provided with two cameras.	To be checked physically by BOO				
		(i) Bullet Body Worn camera	To be checked physically by BOO				
		(ii) Button Body Worn Camera	To be checked physically by BOO				
	(b) The specification of the Bullet Body Worn Cameras is as under:-		To be checked physically by BOO				
		(i) Video Resolution - 750 (H) x 500 (V) or better	A certificate to the effect should be furnished by the vendor from a NABL accredited labs.				
		(ii) The Camera should offer low light capability of .001 lux or better.	A certificate to the effect should be furnished by the vendor from a NABL accredited labs.				
		(iii) Field of View - 70° or better	To be checked physically by BOO				
	(c)	The specification of the Button Body Worn	Camera is as under:-				
		(i) Video Resolution - 750 (H) x 500 (V) or better	A certificate to the effect should be furnished by the vendor from a NABL accredited labs.				
		(ii) Field of View - 70° or better	To be checked physically by BOO				
		(II) I loid of viola is					



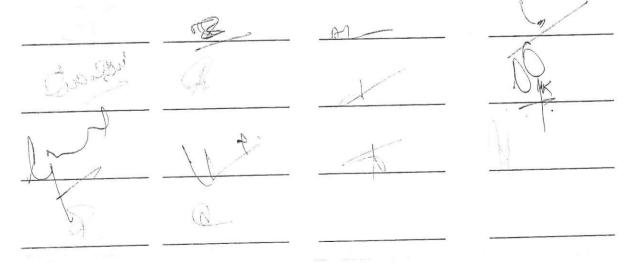
Ser No	Qualitative Requirements			Trial Directive/Procedure			
	(d)	Trans	Transmitter				
		(i)	The transmitter should be compact and lightweight such that it can be carried by a Soldier during operation, in addition to his tactical gear (Bullet Proof Jacket, Helmet, Weapon and Ammunition).	BOO			
		(ii)	Should incorporate COFDM IP Mesh digital transmission technology to provide video transmission ranges of 750 meter or better in Non Line of Sight environment with one repeater.	BOO			
		(iii)	Each COFDM IP Mesh Transmitter should act as repeater also.	B00			
		(iv)	The form factor of the transmitter should be compact, with least no of wires and all components should be sandwiched in a single unit except for camera.				
		(v)	The transmitter should have suitable video in ports analog and ethernet.	To be checked physically by BOO			
	12	(vi)	The transmitter should have the provision of being operated on rechargeable batteries and also on 220 V AC.	To be checked physically by BOO			
		(vii)	Rechargeable battery pack for the transmitter should offer 4 hours of endurance. Spare rechargeable battery pack to be provided.	BOO			
		(viii)	Suitable Battery Charger should be provided to charge the transmitter batteries through 220 V AC.	To be checked physically by BOO			



<u>Ser</u> No	9	Qualitative Requirements	Trial Directive/Procedure	
	(ix)	The transmitter should be able to operate from -15 degree Celsius to 50 degree Celsius.	A certificate to the effect should be furnished by the vendor from a NABL accredited labs.	
	(x)	The Transmitter should comply to IP 65 level or higher.	furnished by the vendor from a NABL accredited labs.	
	(xi)	The transmitter, battery pack, antennas and battery charger should be supplied in suitable pelican box for ease of carriage.	To be checked physically by BOO	
	(xii)	The transmitter should offer 128 bit AES encryption or better to avoid eaves dropping	furnished by the vendor from a NABL accredited labs.	
	(xiii)			
	(xiv)	I II CO MADEO O		
	(xv)	The transmitter should operate in license free frequency band.	To be checked physically by BOO	
	(xvi)	- iii l-l-l offor	furnished by the vendor from a NABL accredited labs.	
	(xvii)	in the state of	A certificate to the effect should be furnished by the vendor from a NABL accredited labs.	



Ser No		(Qualitative Requirements	Trial Directive/Procedure		
	(e)	Receiver				
	()	(i)	The receiver should be a diversity receiver to eliminate fade and multi path effects.	A certificate to the effect should be furnished by the vendor from a NABL accredited labs.		
	70	(ii)	The receiver should have suitable antennas to receive and display three Video feeds simultaneously from three transmitters @ 25 FPS or better while other transmitters are acting as repeaters.	A certificate to the effect should be furnished by the vendor from a NABL accredited labs.		
		(iii)	The receiver should have provision of high gain directional antennas to enhance the transmission ranges. High gain directional antennas should be supplied with the transmitter.	To be checked physically by BOO		
		(iv)	The receiver should be able to operate on internal battery pack for 6 hours or better.	To be checked physically by BOO		
		(v)	There should be a provision to power the Receiver through 220 V AC.	To be checked physically by BOO		
		(vi)	The receiver should have inbuilt DVR to record and play the video surveillance feeds for analysis and evidence purposes.	To be checked physically by BOO		
		(vii)	The receiver should offer a video out port for further connection with TV.	To be checked physically by BOO		
		(viii)	The receiver with all its accessories should be such that it can be carried by a single Soldier.	To be checked physically by BOO		



<u>Ser</u> <u>No</u>		Qualitative Requirements	Trial Directive/Procedure
	(ix)	The Receiver should comply to IP 66 or better and should be Pelican box based for ease of carriage, deployment and safety during operations.	a NABL accredited labs.
	(x)	The receiver should offer IP interface for IP streaming and network connections.	B00
3	Literature each discre English lang	Operating and Technical literature for te components of system should be in the suage	ВОО
4	Training Demonstration of one set of complete system with its full accessories should be arranged at buyers premises on NO cost NO commitment basis. In situ training of users for three day on operation, maintenance, fault finding and user level repairs.		OEM. BOO to check the authenticity, validity and

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APPROVED / NOT APPROVED

(J N Choudhury) DG, NSG