

45

**QUALITATIVE REQUIREMENTS OF "BODY WORN CAMERA SYSTEMS
(FOR RAF)"**

SL. NO.	QRs/SPECIFICATIONS	
	Parameter	Specification
1	Device type	Camera with audio-video recorder cum player with live streaming facility.
2	Device dimensions (max)	Length - 120mm, Width - 90mm, Height - 40mm
3	Working temperature	-10°C to +60°C
4	Storage temperature	-10°C to +60°C
5	Device ID	Unique ID for identification.
6	Water Proof	IP65/66/67 (To be defined by the user)
7	Computer Interface	USB Cable , Type 2.0/3.0
8	Body worn facility	Clip/Harness Type (To be defined by the user)
9 (A)		
a	Sensor Capacity (minimum)	05 MP
b	Sensor Type	CMOS
c	Resolution (minimum)	720 P @30 fps
d	FOV (minimum)	120 °(diagonally)
e	Night Vision	IR
9 (B)		
a	Recording type	One button recording start/stop.
b	Snapshot	Capture photos during recording.
c	Audio	Good inbuilt microphone.
d	Recording "on" indicator	LED indicator
e	Recording duration (minimum)	8 Hrs continuous recording
f	Storage capacity (minimum)	16 GB inbuilt.
g	Expandable storage	Optional (To be defined by user)
h	GPS	Built-in (Optional) (To be defined by user)
9 (C)		
a	LCD Screen	2 inch (max), TFT, Color Display
b	Screen Protection	Scratch Proof Coating/Screen Guard
c	Audio/Video Playback	YES
d	Fast Forward	2X,4X,8X
e	Rewind	2X,4X
f	Editing/deletion protection	Should be password protected.
g	User language interface	English
9(D)		
a	Connectivity	4G/3G + WI-FI
b	Connectivity type	IP interface for IP Streaming & Network Connections
c	Device should be able to transmit the data to password protected cloud based platform which can be tapped through internet for live view as well as review & analysis on later stage.	

[Handwritten signatures and initials]

(43)

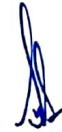
9 (E)	Interface Software / Platform	(1) Recorder & transmitter software as well as review software or app should be compatible with windows platform. (2) Compatibility with android based platform will be additional advantage. (optional) (3) Option for live recording at review end with dedicated DVR will be additional advantage. (optional)
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CRPF



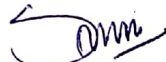
CRPF



CRPF



BSF



ITBP



CISF



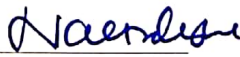
SSB



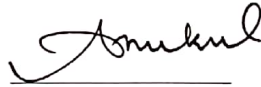
BPR&D



NSG



DIG (Ord)



IG (Prov)



SDG (Prov & Works)

Approved / Not ~~Approved~~

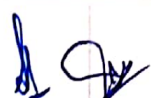
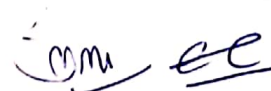


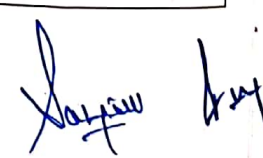
Director General, BSF

TRIAL DIRECTIVES OF "BODY WORN CAMERA SYSTEMS (FOR RAF)"

41

SL. NO.	QRs/SPECIFICATIONS		TRIALS DIRECTIVES
	Parameter	Specification	
1	Device type	Camera with audio-video recorder cum player with live streaming facility.	BOO will check physically.
2	Device dimensions (max)	Length - 120mm, Width - 90mm, Height - 40mm	
3	Working temperature	-10°C to +60°C	Firm to produce Lab Test Report from a national/ international accredited lab.
4	Storage temperature	-10°C to +60°C	
5	Device ID	Unique ID for identification.	BOO will check physically.
6	Water Proof	IP65/66/67 (To be defined by the user)	Firm to produce Lab Test Report from a national/ international accredited lab.
7	Computer Interface	USB Cable, Type 2.0/3.0	BOO will check physically.
8	Body worn facility	Clip/Harness Type (To be defined by the user)	
9 (A)	CAMERA:		
a	Sensor Capacity (minimum)	05 MP	OEM will certify
b	Sensor Type	CMOS	
c	Resolution (minimum)	720 P @30 fps	
d	FOV (minimum)	120 ° (diagonally)	
e	Night Vision	IR (5 Mtr)	BOO will check physically
9 (B)	RECORDER:		
a	Recording type	One button recording start/stop.	BOO will check physically.
b	Snapshot	Capture photos during recording.	
c	Audio	Good inbuilt microphone.	
d	Recording "on" indicator	LED indicator	
e	Recording duration (minimum)	8 Hrs continuous recording	OEM will certify.
f	Storage capacity (minimum)	16 GB inbuilt.	BOO will check physically.
g	Expandable storage	Optional (To be defined by user)	
h	GPS	Built-in (Optional) (To be defined by user)	
9 (C)	INBUILT AUDIO/VIDEO PLAYER CUM IMAGE REVIEW:		
a	LCD Screen	2 inch (max), TFT, Color Display	BOO will check physically.
b	Screen Protection	Scratch Proof Coating/Screen Guard	
c	Audio/Video Playback	YES	
d	Fast Forward	2X, 4X, 8X	
e	Rewind	2X, 4X	
f	Editing/deletion protection	Should be password protected.	
g	User language interface	English	

9(D)	a	Connectivity	4G/3G + WI-FI	BOO will check physically.
	b	Connectivity type	IP interface for IP Streaming & Network Connections	OEM will certify.
	c	Device should be able to transmit the data to password protected cloud based platform which can be tapped through internet for live view as well as review & analysis on later stage.		OEM will certify and BOO will check physically.
9 (E)		Interface Software / Platform	(7) Recorder & transmitter software as well as review software or app should be compatible with windows platform. (8) Compatibility with android based platform will be additional advantage. (optional) (9) Option for live recording at review end with dedicated DVR will be additional advantage. (optional)	OEM will certify and BOO will check physically.

CRPF

CRPF

CRPF

BSF

ITBP

CISF

SSB

BPR&D

NSG

DIG (Ord)

IG (Prov)

SDG (Prov & Works)

Approved / Not Approved

Rakesh Ashwariya

Director General, BSF

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ब्लाक संख्या . 10,
सीजीओ काम्पलैक्स,

लोधी रोड, नई दिल्ली-03

दिनांक 4 सितम्बर 2020

सेवा में,

महानिदेशक:- आसाम राईफलस (through LOAR), केन्द्रीय ओद्यौगिक सुरक्षा बल,
केन्द्रीय रिजर्व पुलिस बल, भारतीय तिब्बत बोर्डर पुलिस, सशस्त्र सीमा बल,
राष्ट्रीय सुरक्षा गार्ड एवं पुलिस अनुसन्धान एवं विकास ब्योरो

विषय: अनुमोदित गुणात्मक आवश्यकता/परीक्षण निर्देशों का प्रेषण

तकनीकी विशेषज्ञों के उप समूह द्वारा सूत्रीकरण किए एवं महानिदेशक सीमा सुरक्षा बल द्वारा
पुनः अनुमोदित "Body Worn Camera" के गुणात्मक आवश्यकता/परीक्षण निर्देशों को आपकी
अग्रिम कार्यवाही हेतु प्रेषित किया जाता है।

संलग्न : उपरोक्तनुसार

(सतीश चन्द्र बुडाकोटी)
उप महानिरीक्षक (रसद)

प्रतिलिपि :-

1. तकनीकी निदेशक
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गृह मंत्रालय, नई दिल्ली
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3. तकनीकी विंग, सीमा सुरक्षा बल

: आपसे अनुरोध है कि Body Worn Camera के
गुणात्मक आवश्यकता /परीक्षण निर्देशों को गृह
मंत्रालय की वेबसाइट (पुलिस आधुनिकीकरण
विभाग-गुणात्मक आवश्यकता) पर अपलोड करने का
श्रम करें।

: आपसे अनुरोध है कि Body Worn Camera के
गुणात्मक आवश्यकता /परीक्षण निर्देशों को गृह
मंत्रालय की वेबसाइट (पुलिस आधुनिकीकरण
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गुणात्मक आवश्यकता /परीक्षण निर्देशों को सीमा
सुरक्षा बल की वेबसाइट पर अपलोड करने का श्रम
करें।