# F.No63013/03/2015-Ord/BSF /MHA-Prov-I 779 Bharat Sarkar/Government of India Griha Mantralaya/Ministry of Home Affairs PM Division



26, Man Singh Road, Jaisalmer House New Delhi, Dated / April, 2015

To.

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

Subject: QRs and Trial Directive for Micro Digital Recorder. Sir.

The QRs and Trial Directives in respect of Micro Digital Recorder as per Annexure have been accepted by the Competent Authority in MHA.

- 2. The CAPFs concerned will be accountable for correctness of the QRs/Trial Directives
- 3. Henceforth, all the CAPFs should procure the above item required by them strictly as per the laid down Technical Specifications/QRs.
- 4. Item being sensitive in nature and to be used for secret operations, putting detail QRs of such item on web site may not be in the interest of nation keeping in view its security. However, while floating tenders/RFP, utmost care needs to be taken to have effective transparency in the procedure, keeping in view the guidelines issued by the CVC on the subject.

Yours faithfully,

Encl: As above

(M.K. Chahar)

Under Secretary to the Govt of India

Tel: 23381278

Copy to: DDG (Procurement), MHA.

APPENDIX-A"

## DIRECTOR GENERAL BORDER SECURITY FORCE (GENERAL DIRECTORATE)

The Sub-group of Technical Experts on surveillance equipment constituted by MHA vide their letter No. IV-24011/12/2011-Prov-I dated 13<sup>th</sup> June 2012 held its meeting at BSF Headquarters on 23 Dec 2013, 10 March 2014, 28 July 2014, 25 Aug 2014, 3 Nov 2014, 5 Jan 2015 and 23<sup>rd</sup> Feb 2015 to finalized the QRs of Micro Digital Recorder.

After detailed deliberation the referred Sub-group has finalized the QRs of  $^{\prime\prime}$  Micro Digital Recorder which are as under:-

## QUALITATIVE REQUIREMENT FOR MICRO DIGITAL RECORDER

Srl No	SPECIFICATIONS
7	Tiny Nano Size less than 46x10x20 mm
2	Weight: less than 30 g with Battery
3	Data should be Password Protected
4	Fast USB Port
5	Low Power Consumption: Battery should support 40hrs or above in recording
	mode
6	Recording mode: Button, Schedule and VOX mode
7	Voice Activation System (VAS)
8	Programmable Timer For Automatic Scheduled Recording
9	It should have timed recording, Start / stop manually or automatically on signal-
	level or timer.
10	Sampling rate: 44 Khz and above
11	High Sensitivity Microphone
12	Voice play
13	Recording Time: 40 Hours or better
14	Signal/noise ratio: > 64 dB
15	Operating Temperature: -5°C to 50°C
16	Bandwidth : 20 Hz to 20 kHz
17	Built-in microphone range : 7-9 mtrs
18	PC interface: USB 2.0 or better
19	Data transfer rate: 5.5 Mb or better
20	Data transfer rate to PC: > 480 Mbits/ Sec
21	Power supply: rechargeable Li - ion battery, charged from USB port.
22	Battery life: Up to 60 Hrs or higher.
23	Audio Recording Formats: Audio Format(s) Supported: Recording- MP3 files:
	Bit Rate: 8 kbps - 192 kbps, VBR Sampling Frequencies:
	16/22.05/24/32/44.1/48 kHz File Extension: mp3
	PCM files: Bit Rate: 16 bit Sampling Frequencies: 44.1 kHz File Extension: WAV Playback - MP3/AAC/WMA/WAV.

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James J.

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24	Firmware Upgradable
25	KIT INCLUDES
	• Digital Voice Recorder, • USB cable, • External microphone
	• One spare Battery, Battery charger • CD with software • Operation and
	Technical manual for DVR

(A. K TYAGI) COMOT, BG

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ASSURANT COMMRHOANT, S.S.

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APPROVED/NOT APPROVED

(D K PATHAK) IPS ( 4)
DIRECTOR GENERAL
BORDER SECURITY FORCE



# TRIAL DIRECTIVE FOR MICRO DIGITAL RECORDER

	for automatic scheduled	programme a time schedule for	Schednied Recording	
	Must have programmable timer		Programmable Timer For Automatic	8
		proximity.		
		system receives voice in	8.	
	2.4	activation of recording as the		
		in the VAS mode. Check the		
	Must have VAS	Switch ON the system and put it	Voice Activation System (VAS)	.\]
	Must have recording mode: Button, Schedule and VCX mode	To be physically checked by BOO	Recording mode: Button, Schedule and VOX mode	6.
oc.			recording mode.	
	5	102	should support 40 hrs or above in	
THE PARTY OF THE P	Must last for 40 Hrs or more.	To be physically checked by BOO	Low Power Consumption: Battery	Ċī
		data from the recorder.		1
	9	via USB port for retrieving the		
The second secon	Must have fast USB port	Connect the system with the PC	Fast USB Port	+
	,	password.		
не в селение	Must be password protected	Check the system for the	Data should be Password Protected	3
		accessories on weighing machine.		
	Must be less than 30 g with	Weight the system without	Weight: less than 30 g with Battery	N
		measuring tape.		
	-	of the system with the help of		
	Must be less than 46 x10x20 mm.	Measure the external dimensions	Tiny Nano Size less than 46 x10x20 mm	<del>: - \</del>
Complied		Board of Officers		No.
Complied / Not	Result expected / desired	Procedure suggested for trial for		S

Ro	15.	14	<u>-1</u>	12.	10.	.9
	Operating Temperature : -5°C to 50°C	Signal/noise ratio : > 64 dB	Recording Time : 40 Hours or better	Voice play	Sampling rate : 44 Khz and above  High Sensitivity Microphone	It should have timed recording, Start /stop manually or automatically on signal level or timer.
Allowed States of the States o	Check the National/International Accredited lab certificate/report submitted by the firm in respect of	Check the National/International Accredited lab certificate/report submitted by the firm.	Check the total capacity of memory available in the system. Record the voice up-to 1 hour and then note down the space taken by the recording data. Calculate the total space required to record the voice up to 40 hrs on the basis of 1 hour recording.	check the system for replay the stored voice data	Check the National/International Accredited lab certificate/report submitted by the firm.  To be physically checked by BOO	activation of automatic recording. Check the system for the facility of manual start & stop the recording, time schedule programme and timer facility to start the recording.
dry 218 Mallit	Must have the National/International lab	Check the authenticity of National / International accredited lab test certificate / report for the same. In case of any doubt in the test report, the veracity of the same may be checked from the concerned lab.	Must have recording time 40 Hrs or better.	phone.  Must have voice play facility.	Sampling rate must have 44 KHz  Must have high sensitive micro	recording  Must have time recording.

DE CO	2	23	22		
	24. I				
The state of the s	Firmware Upgradable	Audio Recording Formats: Audio Format(s) Supported: Recording - MP3 files: Bit Rate: 8 kbps - 192 kbps, VBR Sampling Frequencies: 16/22.05/24/32/44.1/48 kHz File Extension: mp3 PCM files: Bit Rate: 16 bit Sampling Frequencies: 44.1 kHz File Extension: WAV Playback - MP3/AAC/WMA/WAV	Battery life in record mode: up to 60 Hrs		
THE WAY	Check the assurance certificate provided by the firm that the firmware of the system is upgradable.	Check the National/International Accredited lab certificate/report submitted by the firm in respect of QRs.	Check the system operation on full charged battery (provided with the system) continuously in operation mode and note down the time of endurance of the battery.	the firm in respect of type of battery provided i.e. Rechargeable Li-ion. b) Check the charger to charge the battery of the system for the facility of USB lead.	
January Brahmy	Supplier must provide assurance certificate.	Must have the National/International lab certificate/report submitted by the firm in respect of QRs.	Must be run upto 60 hrs or higher.	any doubt in the test report, the veracity of the same may be checked from the concerned lab.  b) The battery of the system must be charged through USB charging lead via charger on mains supply as well as through PC USB Port.	e. e. 8*
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(Ac many Pu, NSG)

**BORDER SECURITY FORCE** DIRECTOR GENERAL (D K PATHAK), IPS

(Hazirder Kumas) DC, RAG, SID

Technical manual for DVR. software • Operation and

TAMIL MATH UPAUMYAY. ALSINTANT COMMANDANT, 5.5.B 23 02 2016

SSA(E), BPRAD