

भारत सरकार, गृह मंत्रालय  
कार्यालय अपर महानिदेशक (चिकित्सा)  
के०स०पु०ब०, रामुगा एंव अ०रा०  
पश्चिम खण्ड-1, तल-2, विंग-3  
आर०के०पुरम, नई दिल्ली-110 066



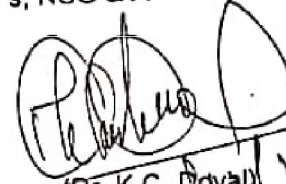
Government of India  
Ministry of Home Affairs  
Office of Addl. DG (Med)  
(CAPFs, NSG & AR)  
West Block-1, Level-2, Wing-3  
R K Puram, New Delhi-110066

**Sub:- FORWARDING OF APPROVE QRS AND TRIAL DIRECTIVES OF 'MICROWAVE DISINFECTANT SYSTEM FOR DISPOSAL OF HOSPITAL WASTES (BIO-MEDICAL WASTE)**

Please find enclosed herewith the QRs, Specification and Trial Directives of 'Microwave Disinfectant system for disposal of Hospital wastes (Bio-Medical Waste) duly approved by the Competent Authority for your further necessary action.

2. All CAPFs are requested to procure the above item required by them as per the laid down Technical Specification/QR and TD.
3. This issues with the approval of ADG(Med) CAPFs, NSG & AR.

Encls:- 6 Copies

  
(Dr. K.C. Doyal)  
DIG (Med) & Staff Officer

DsG, AR(through LOAR), BSF,CRPF,CISF,ITBP,SSB & NSG

U.O. No.E-27012/ADG(Med)/33(E)/DA-3/TD/2020/ 3

Dated 27 Dec' 2021

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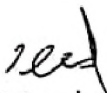
SO(IT), North  
Block, MHA  
New Delhi  
(through E-Mail  
soit@nic.in)

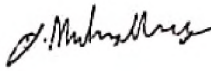
You are requested to host the above QR and TD (soft copy enclosed) on MHA website (under the page of organization set up Police Modernization Division Quantitative Requirement under Hospital Equipments)


**BOARD PROCEEDING**

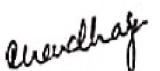
Proceeding of : A board of officers.  
 Assembled at : Office of Director(Medical), CISF HQrs., CGO's Complex, Lodhi Road, New Delhi.  
 On the date of : 14.10.2021 onwards.  
 By the order of : ADG(Med.), CAPFs order No.27012/23/ADG(Med.)/DA-3/2021/1784 dated 16.09.2021.  
 Purpose : To examine the proposal for amendment/revise the QRs of **Microwave Disinfectant System for Disposal of Hospital Wastes (Bio-Medical Waste)** submitted by CRPF.  
 Composition of Board :  
 P.O. Dr. Ashok Kumar Trivedi, DIG/Director(Med.), CISF, CGO Complex, New Delhi  
 Member-I Dr. N Sittlou, CMO(SG), FHQ BSF Hosp-I, R K Puram, New Delhi.  
 Member-II Dr. J Mukhopadhyay, CMO(SG), CRPF, New Delhi.  
 Member-III & expert Co-opted member Dr. R A Despande, CMO(SG), Base Hospital, ITBP  
 Member-IV Dr. Sanjay Chaudhary, Comdt(Med.), 25th Bn. SSB, New Delhi  
 Member-V Dr. Ajit Mukherjee, PSO(Ls), BPR&D, New Delhi

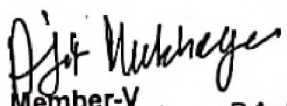
Pursuant to the orders of ADG/Med., CAPFs, the board assembled at office of DIG/Director (Medical), CISF, CGO Complex, Lodhi Road, New Delhi from 14.10.2021 onwards to examine the proposal for amendment/revise the QRs of **Microwave Disinfectant System for Disposal of Hospital Wastes (Bio-Medical Waste)**, submitted by CRPF. The amended/revise QRs of '**Microwave Disinfectant System for Disposal of Hospital Wastes (Bio-Medical Waste)**' are enclosed as per Appendix-'A'.

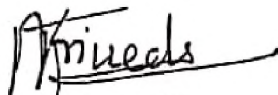
  
 (Dr. N Sittlou)  
 CMO(SG), BSF  
 Member-I

  
 (Dr. J Mukhopadhyay)  
 CMO(SG), CRPF  
 Member-II

  
 (Dr. R A Despande)  
 CMO(SG), BH, ITBP  
 Member-III & Expert  
 Co-opted Member

  
 (Dr. Sanjay Chaudhary)  
 Comdt.(Med.), SSB,  
 Member-IV

  
 (Dr. Ajit Mukherjee, PSO(Ls))  
 BPR&D  
 Member-V

  
 (Dr. Ashok Kumar Trivedi)  
 DIG/Director(Med.) CISF  
 Presiding Officer

Recommendation of ADG(Med.)  
 Recommended/Not Recommended

  
 22/11/21

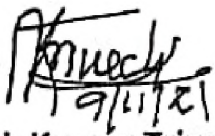



Check List for submission of QRs and Trial Directives for approval :

S.No.	Details	Remarks	
1.	Description/nomenclature store/item.	Amendment of QRs and Trial Directives of "Microwave Disinfectant System for Disposal of Hospital Waste (Bio-Medical Waste)".	
2.	Use of the store/item.	-	
3.	Standards/QRs being used for the subject store/item presently.	-	
4.	Whether the subject store/item carries BIS specifications? If yes, reason for not adopting BIS?	Should be CE, CFDA or FDA certified.	
5.	Whether MHA specifications exist?	Yes.	
6.	Have you proposed revision of QRs? If yes, a comparative statement of old and new QRs may be provided.	Yes. Comparative statement of old and New QRs is attached as per Annexure-I.	
7.	Reasons for revision of existing QRs.	As recommended by the Board detailed by ADG/Med., CAPFs.	
8.	Financial implications due to revision of QRs.	N.A.	
9.	In the case of new QRs provide details of research/study carried out by the sub-group before formulation of QRs.	N.A.	
10.	Name, designation, educational qualification and experience of the members of the sub-group.	Most of the members of Board having more than 20 year of experience. Composition of the board:-	
		Dr. Ashok Kumar Trivedi, DIG/Director(Med.), CISF, CGO Complex, New Delhi	P.O.
		Dr. N Sithihou, CMO(SG), FHQ BSF Hosp-I, R K Puram, New Delhi.	Member-I
		Dr. J Mukhopadhyay, CMO(SG), CH, CRPF, New Delhi	Member-II
		Dr. R A Despande, CMO(SG), Base Hospital, ITBP, New Delhi	Member-III & expert Co-opted member.
		Dr. Sanjay Chaudhary (Comdt/Med.), 25th Bn. SSB, Ghitorni, New Delhi	Member-IV
	Dr. Ajit Mukherjee, PSO(LS), BPR&D, Mahipalpur, New Delhi	Member-V	

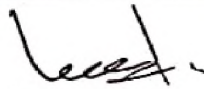
11.	Name, designation and educational qualification of the members from the expert organization.	As per column 10 above.
12.	Details of the suggestions given by the experts.	Suggestions given by experts are included in the QRs/specifications.
13.	Whether these suggestions incorporated in the QRs? If not, reasons with justification?	The QRs/specification and Trial Directives of equipments are drafted by the Board only after discussion on each point in the group before drafting.
14.	Whether QRs were hosted on website for 15 days by the sub-group?	Yes, vide Med. Dte., CISF HQrs., New Delhi letter No. M-20015(73)/CISF/Med.Dir/QRs/2021/1894 dated 22.10.2021 (copy enclosed – Annexure-II).
15.	Details of the suggestions received on hosting of QRs on website. Reason for considering/ not considering suggestions.	No suggestions/representation received on CISF website.
16.	Whether a certificate in terms of MHA letter dated 4-1-2013 has been enclosed?	Yes, enclosed. (Annexure-III).
17.	Whether QRs/Specifications are generic in nature without being vendor specific and adequate tolerance range have been provided to make these competitive?	Yes, QRs/specifications are generic in nature not vendor specific.
18.	Whether Trial Directives are being proposed along with QRs? If not, reasons may be given?	Yes.
19.	Shelf life of the store/item?	N.A.
20.	Whether the store/item is available in market? Anticipated cost of the item/store may be indicated.	Cost required to be surveyed.
21.	Confirmation to the effect that the proposed QRs have been prepared with the adoption of the state of the art technology & that these have the potential to lead a fair & healthy competition among the prospective producers/ service providers.	Yes, QRs and TDs are made to keep in mind the latest state of art technology so that QRs and TDs should be generic in nature not vendor specific.
22.	Whether these QRs are in consonance with industry norms.	-

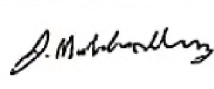


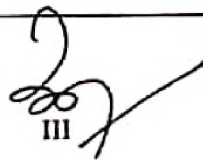
23.	Whether any BIS/MOD/DGS&D QRs for the store/item are available and if yes, what are the modifications proposed in the QRs?	Not available.
24.	In case QRs are for Communication/ IT store/item, whether views of DCPW/NIC have been obtained? If not, reason thereof.	Not applicable.
25.	Recommendations of the sub-group.	<p>Recommended.</p> <p style="text-align: right;">               (Dr. Ashok Kumar Trivedi)              DIG/Director (Medical)              CISF HQrs., New Delhi         </p>
26.	Final recommendation of ADG/Med, CAPFs, NSG & AR.	<p style="text-align: center;">Recommended</p> <p style="text-align: center;">               22/11/21         </p>

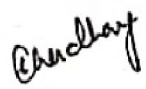
QRS AND TDs OF 'MICROWAVE DISINFECTANT SYSTEM FOR DISPOSAL OF HOSPITAL WASTES (BIO-MEDICAL WASTE) :


SPECIFICATIONS		Procedure suggested for trial for Board of Officers	Result expected/ desired
1.	Capacity of Disinfection system should be 10 Lit/cycle (50/10 bedded) and 30 Lit/cycle (200 bedded)	Board should check physically during demonstration.  OEM should submit an undertaking and documents in this regard.	As per specification.
2.	Duration for one disinfection cycle should below one hour.		
3.	Frequency of Microwave Generator – between 2000 MHZ to 2500 MHZ.		
4.	Monitory system with E-cloud based on line temperature and record display and printout for each batch process.		
5.	Power Consumption should be below 2500 W.		
6.	HF output of Microwave Generator – between 1 KW to 3 KW		
7.	Operating voltage and frequency – 230 v/50Hz.		
8.	Input current – 15 A		
9.	Should comply with the latest Bio Medical Waste Management rules 2016. It is mandatory to pre-treat highly infectious laboratory waste blood bag etc. at source before its final disposal.		
10.	Weight – Below 250 Kgs.		
11.	Should be PLC based Automatic operation with automatic water.		
12.	End product should be Non-infectious.		
13.	Should be touch screen process recorder, online temperature display and super safety lock.		
<b>STANDARD, SAFETY AND TRAINING :</b>			
1.	Should have CE (European Union compliance certified)/ BIS and the same should be central pollution control board (CPCB) certified.	OEM should submit an undertaking and documents in this regard.	As per specification.
2.	Manufacturer should have IOS certification, where Indian standards are not available.		
3.	Comprehensive warranty for Daily, Weekly, Monthly maintenance.		
4.	Comprehensive training for technical staff and proper support services till familiarity with system.		

  
Member-I

  
II

  
III

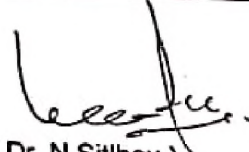
  
IV

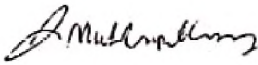
  
P.O.


Recommendation of the ADG (med)

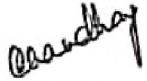
  
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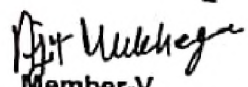
DOCUMENTATION :			
1.	User/ Technical/ Maintenance manuals to be supplied in English.	OEM should submit an undertaking and documents in this regard.	As per specification.
2.	Log book with instructions for Daily, Weekly, Monthly maintenance.		
3.	The job description of the hospital Technician, service engineer should clearly spelt out.		

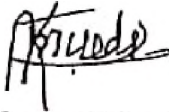
  
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 (Dr. Sanjay Chaudhary)  
 Comdt.(Med.), 25th Bn. SSB,  
 Member-IV


  
 Member-V  
 (Dr. Ajit Mukherjee, ISO(LS)  
 BPR&D)

  
 (Dr. Ashok Kumar Trivedi)  
 DIG/Director(Med.) CISF  
 Presiding Officer

Recommendation of the ADG(med)  
 Recommended / ~~Not Recommended~~

  
 22/11/21

Approved / Not approved

  
 Director General  
 Border Security Force