

No. B.V-7/2013-14-C(QRs)-(7)
भारत सरकार/Government of India
गृह मंत्रालय/Ministry of Home Affairs
पुलिस आधुनिकीकरण प्रभाग /Police Modernization Division
संभरण-I डेस्क /Prov.I Desk

26, Man Singh Road, Jaisalmer House,
New Delhi, the 8 December, 2014

To,

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

Subject: QRs and Trial Directives of Field Telephone Cable JWD-1.

The undersigned is directed to refer to the subject mentioned above and to say that the QRs and Trial Directive in respect of Field Telephone Cable JWD-1 as per Annex-I and Annex-II respectively have been approved by the competent authority in MHA.

2. Henceforth, all the CAPFs should trial evaluate and procure the above item, required by them, strictly as per the laid down QRs.
3. Concerned CAPF will be accountable for correctness of the QRs.

Yours faithfully,



(P. K. Srivastava)

Under Secretary to the Govt. of India

Encl: As above.

Copy forwarded for necessary action to:

SO (IT), MHA - with the request to host the QRs and Trial Directives of Field Telephone Cable JWD-1 on official website of MHA (under the page of Organizational Set up, Police Modernization Division-Communication Equipments). Soft copy is being sent through email also.



(R. K. Soni)
Section officer (Prov-I)

Copy to: DDG (Procurement), MHA

QRs/ Specifications of Field Telephone Cable JWD-I

SI No	Parameter	Specifications
1	Characteristics	
	i) Conductor	Composite conductor of 4 tinned copper and 3 Galvanized high tensile wire (To give strength) of size 0.29 mm dia each
	ii) Insulation	i) Insulation materials should be of High Density Poly Ethylene (HDPE). ii) Diameter of Insulation over each wire be 2.35 ± 0.1 mm
	iii) Twisting	Twisting pitch at 150 mm Maximum
2	Performance	
	i) Temp Range	-40°C to +80°C
	ii) Resistance of core	76 ohm/Km is maximum Resistance of core at 20°C
	iii) Test Voltage	1 KVA AC
	iv) Pair Capacitance	Capacitance Value of (37 ± 2) pf/m
	v) Impedance	600 Ohm at 1.6 khz
	vi) Attenuation	1.4 db/Km at 1.6 khz
3	Standard Length	
	The standard length of wire of every spool/ Drum should be 1600 meter $\pm 1\%$ or 1000 mtr $\pm 1\%$ (to cater for sample testing) (User may quote length in drum during tender)	
4	Iron Drum	Iron Drum made of Iron Sheet of thickness 1mm will only be accepted. The other measurement of Drum are as under:- Spool :- Length 23 cm Diameter :- 13 cm Wings - Diameter :- 40 cm
5	Colour	Black

Bijendra
(SI/RM Bijendra Singh, BSF)

Sohrab
(SI/ Exe Sohrab Ansari, CISF)

M S Yadav
(M S Yadav, AC (Tech), CRPF)

Gurbachan
(Gurbachan Singh, SSO (E), BPR&D)

(Sunil Kumar, DC, ITBP)

Kapil
(Major Kapil Dahiya, TC (Eqpt), NSG)

S K Singh
(S K Singh, Comdt (C-Eqpt), BSF)

Virendra
(Virendra Agrawal, DIG(Eqpt), CRPF)

Shailendra
(Shailendra Kumar, IG (Comn), CRPF)

Approved/ Not Approved

Pranay Sahay
(Pranay Sahay, IPS)
DG, CRPF

TRIAL DIRECTIVE FOR FIELD TELEPHONE CABLE JWD-I (HDPE)

Technical evaluation of JWD-I will be conducted by a Board of Officers in the presence of Vendor or representative of Vendor/Firm.

2) All parameter / Specifications mentioned from srl No -1 to 5 will be checked by board of officers by ascertaining /verifying following checks.

- a) Physical Check: In this category specifications of the Telephone Field Cable JWD-I (HDPE) will be checked physically as per QRs.
- b) Submission of certificates:- Specification which cannot be checked due to lack of testing facilities / expertise, a certificate of test shown against each will be provided by vendor/firm during physical trial of the cable.

Sl No	Parameters	Specifications	Trial/ Test Procedure
1	Characteristics		
	i) Conductor	Composite conductor of 4 tinned copper and 3 Galvanized high tensile wire (to give strength) of size 0.29 mm dia each	Physically checked by B.O.O
	ii) Insulation	a) Insulation materials should be of High Density Poly Ethylene (HDPE). b) Diameter of Insulation over each wire be 2.35 ± 0.1 mm	OEM Certificate or Test certificate of any Government approved/ international accredited laboratory to be produced by supplier. B.O.O either be accepted same or equipment may be tested from any Govt approved laboratory as no one CAPs having facility to check these specifications.
	iii) Twisting	Twisting pitch at 150 mm Maximum	Should be practically checked.
2	Performance		
	i) Temp Range	-40°C to 80°C	OEM Certificate or Test certificate of any Government approved/ international accredited laboratory to be produced by supplier. B.O.O either be accepted same or equipment may be tested from any Govt approved laboratory as no one CAPs having facility to check these specifications.
	ii) Resistance of core	76 ohm/Km is maximum Resistance of core at 20°C	
	iii) Test Voltage	1 KVA AC	
	iv) Pair Capacitance	Capacitance Value of (37 ± 2) pf/m	
	v) Impedance	600 Ohm at 1.6 khz	
	vi) Attenuation	1.4 db/Km at 1.6 khz	
	vii) Breaking strength	76 Kg is minimum	do
3	Standard Length	The standard length of wire of every spool/ Drum should be 1600 meter $\pm 1\%$ or 1000 mtr $\pm 1\%$ (to cater for sample testing) (User may quote length in drum during tender)	Physical Check (With the help of measuring tape)

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4	Iron Drum	Iron Drum made of Iron Sheet of thickness 1mm will only be accepted. The other measurement of Drum are as under:- Spool :- Length 23 cm Diameter :- 13 cm Wings - Diameter :- 40 cm	Physical Check (With the help of measuring tape)
5	Colour	Colour of the cable will be Black	Physical Check

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(SI/RM Bijendra Singh, BSF)

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Approved/ Not Approved

(Pranay Sahay, IAS)
DG, CRPF