ECH NICAL SPECIFICATIONS/ ORs OF WATER MIST EXTINGIL SI ER 2 ×910LTRS C APACITY HI GHPRESS URE TYPE (MOTORCYCL EMOUNTED)

SI.	Technical Parameter	QRs/Specification
1	Motor Cycle	Royal Enfield Electra, 5speed 350 cc, self start, Disc brake, PO Red in color. Temp registration, insurance etc. shall be in the scope of motor cycle dealer/supplier.

PART-I

PART-II		Г-И	
SI	Technical Parameter	QRs/Specification	
ţ	Nomenclature/ Name of product/gadget/equipment	of High pressure water mist CAF fire extinguisher, back pack type, ultra-light Carbon composite with PET liner Pressure Vessel 9/10 ltrs capacity and Air Cylinder mounted, two Nos. mounted on Motorcycle.	
2	"Conformity National/International standard.	o The Water Mist & CAF(Back Pack) high pressure extinguisher shall be confirmed to EN 3-7:2004+A1:2007-08 standards The complete system shall be tested for compliance from an internationally/nationally accredited laboratory for compliance to all 30 clauses (3.2, 3.15, 4.2, 4.3, 4.4, 4.5, 6.1, 6.2, 6.3, 7.1.1, 7.1.2, 7.2, 7.3, 7.4, 8.1, 8.2, 9.2, 10.1, 10.2, 10.3, 10.4, 10.5, 10.6.1 & 10.6.2, 14.1, 14.2, 15.2, 15.3, 16.1, 16.2) of EN 3 - 7:2004 + Al: 2007-08 (E) Standard mandatorily applicable for the complete system."	
3.	Mounting type	Motor Cycle Mounted but excluding motorcycle	
4	Configuration/Description	It shall be mounted on a sturdy frame suitable cushioned for comfort, provided with shoulder pads for carrying as backpack and a handle to be carried by hand. All materials used shall be of fire retardant type. Backpack shall be supplied with air cylinders.	
5	Model & Make	Model Number shall be permanently marked as declared in Accredited Laboratory Test Report.	

CONSTRUCTION:

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SI.	Technical Parameter	QRs/Specification
6.	Main Components	Pressure vessel shall be hold the media with safety valve, compressed air cylinder coupled with a reducer, hose

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+	AFFF Compound with	compound shall be Density : 1.04 (kg/cm ³ , Viscosity : 1.35 (m ² /s), pH factor 7.8, Refractive Index 1.34 @ 20 $\pm 2^{\circ}$ C (accredited laboratory test report required).
18.	Fire ratings etc.	Class A, Class B and Electrical Fire Rating with Special AFFF Compound for backpack 55A, 233B, E1000V (Die Electric suitability) with commercial brand name of fire extinguishing medium as per accredited laboratory test report for Backpack System
19.	Pressure Vessel Material & capacity (Nominal charge)	Pressure vessel material should be U tral te Carbon Composite with PET L ther having capac $y 9/\rho$ trs M in mum wal thickness of pressure vesse isha libe 5mm
20 -	Capacity (Nominal Charge)	9 liters each
21.	Extinguishing gun material	Stainless Steel
22.	Extinguishing gun weight	Shall not more than 750 ± 50 gram.
23 ·	Length and standard of Hose	Hose shall be EN marked, not less than 1.3 meter for backpack system.
24.	Backpack system vessel having Ultralite Carbon Composite with PET Liner Vessel.	Weight of each fully charged Backpack system having Ultralite Carbon Composite with PET Liner Vessel shall not be more than 20 kg.
25 [.]	Overall weight of the Two wheeler	The gross weight of the Two wheeler shall not be more than the permissible limit of the RTO carrying with Two pillions.

PERFOR^M ANCE :-

26.	Operating pressure type, report	H gh Pressure Type (Dynamic Operating pressure to be tested in the accredited aboratory test report which will be considered as high pressure for as per clause No 3_1 5 of EN 3- 7.2004 + A: 2007-08 (E) Standard) > 37.6 Bar for U traligh Carbon composite with PET Liner vesse
27.	Lancing Distance of Gun	More than 15 ±2 meter
28.	Temperature sustainability and standard	The air hoses shall be suitable for minus 40° C to 100° C temperature and EN mark on hose.
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29.	Minimum operating time	25 +/-2second
30.	Fire Rating	55 A, 233B, 1000V with AFFF Compound as per EN.

CERTIFICATION:-

31.	PED approval as per Directive 97/23/EC	PED (Pressure Equipment Directives) approval as per 97/23/EC (Encumbrance Certificate).
32.	Pressure gauge	Pressure Vessel shall include a pressure gauge fitted on the vessel (CE Marked from notified body) to measure the air cylinder pressure.
33	(NOC) for Pressure Vessel from Petroleum and	No o bjection certificate (NOC) for Air cylinder and its valve Pressue Vessel from Petroleum and Explosives Safety Organization (PESO)/ approval from CCE Nagpur is mandatory.
34-	Pressure Vessel should have CE Marking from Notified body	Pressure vessel shall be CE marked from notified body.
35.	The air cylinders shall have PESO, Nagpur approval	The air cylinder shall be approved by PESO, Nagpur. Certificate containing body No. shall be produced at the time of delivery (PDI).
36.	Specific consent of the OEM for the value additions	Specific consent of the OEM for the value additions made along with a confirmation that fire ratings of the equipment would not be affected by these value additions
37.	Test Report as per EN Standard (serial number 1 above)	Test Report as per EN Standard serial number 1 above shall be produced.
38.	Test Report No.	Test Report No. should be declared.
39.	Test Report Date	Test Report date should be declared
40	Name of NABL/ILAC/Central Govt Accredited Laboratory where Test Conducted	

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NOC Letter No. Date of PESO NOC Letter No. and date should be mentioned. 41 Nagpur for Pressure Vessel Pre D spatch Inspection (PD of product shall be carried Pre dispatch inspection 42. out by C SFIFire officer as per specification, at the vendor s te where al the testing facili ies are available Shahi) (Kailas ares (Team Comdr/NSG DC/BBF adia AC/CRPF CATBI A SB A Member Member Member Member Member (Prashant Lonkar) (A 'Gosal) (Dr. (S.K. Tomar) CISF) Scientist (E)/DRDO AI SSO(T)BPR&D DO/ DFS Co-opt Member Member Member Co-opt Member (Udayan B ee) Singh) (Rajnath IG(Adm)/CISF IG(Fire)/CISF Member Member (Ald Kumar Pateria) SDG(HQ)/CISF Chairman IDECTO R GENERAL राजेश रंजन, भा.पू.से. RAJESH RANJAN, IPS দहानिदेशक / Director General केन्द्रीय औद्योगिक सुरक्षा बज Central Industrial Security Force गुरु नंत्रालय / Ministry of Home Affairs नई तिल्ती-110003 / N- x Dethi-110003

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