

TTTD-106-1 Rev No. 5	Form No.		PROJECT ENGINEERING & SYSTEM DIVISION BHEL, HYDERABAD –32.		PY51396
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COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED, It must not be used directly or indirectly in any way detrimental to the interest of the company. TECHNICAL SPECIFICATION FOR HOSE REEL					
Revisions :	Prepared by:	Checked by:	Approved By:	Date	
	-SD-	-SD-	-SD-		
	00	Kamaluddin	PCS	MNSR	22.03.19

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1. SCOPE/INTENT:

1.1. This specification covers the technical requirements of constructional features, accessories, inspection, tests, test certificates, documentation, preservation, packing and forwarding of Hose Reel.

1.2. Scope of supply shall include design, manufacture, inspection, shop testing, shop painting, packing and delivery.

1.3. The supplier shall strictly comply with this standard in all respects. No deviation shall be allowed. However, bidder can raise technical queries on the specification during pre-bid stage and clarifications may be sought from BHEL before the bid submission.

APPLICATION:
 These items suitable for fire protection systems (Water & Foam based protection system).

2. VARIANT TABLE:

Var. No.	Description	Material Code
01	32 NB Dia hose reel, 40 m length	PY9751396018

Note: Bidder to quote as per Material Code as mentioned in the Enquiry.

3. TECHNICAL REQUIREMENTS:

3.1. Hose Reel:

Sl. No.	Requirements	Compliance
3.1	Type	Swing type (180 deg.)
3.2	Standard	IS-884 (latest Revision)
3.3	Operation	Manual
3.4	Size of Hose	32 NB Outside Diameter 25 NB Inside Diameter 40 m long
3.5	Material	M.S. (Galvanized)
3.5	Accessories	
3.5.1	Isolation valve	SS (AISI- 304)
3.5.2	Nozzle (with isolation arrangement)	MOC : SS (AISI-304) TYPE :Jet type Shut-Off Nozzle
3.6	Mounting	Wall/column mounted Anchor Fasteners for fixing shall be in Bidder's

Ref.

Doc.

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COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly or indirectly in any way detrimental to the interest of the company. <table border="1" style="width: 100%;"> <tr> <td></td> <td></td> <td>Scope.</td> </tr> <tr> <td>3.7</td> <td>Hose Reel Tubing</td> <td>Reinforced -rubber hose pipe as per IS:444 TYPE-II</td> </tr> <tr> <td>3.8</td> <td>Swivel Joint</td> <td>SS (AISI-304)</td> </tr> <tr> <td>3.9</td> <td>Hydraulic Test</td> <td>21 kg/cm²(g)</td> </tr> <tr> <td>3.10</td> <td>Working Pressure</td> <td>7 kg/cm² (g) to 12 kg/cm² (g)</td> </tr> <tr> <td>3.11</td> <td>Burst Pressure</td> <td>30 kg/cm² (g)</td> </tr> <tr> <td>3.12</td> <td>Water Flow rate at 7 kg/cm²(g)</td> <td>Not less than 24 lpm</td> </tr> <tr> <td>3.13</td> <td>Marking</td> <td> a) Manufacturer's Name or trade-mark, b) Year of manufacture, and c) Length and Dia. of Hose Reel d) Type of Reel </td> </tr> </table> 4. PAINTING Tentative Painting details are as per the below table. However, Final painting details and final color shade shall be provided to Bidder after placement of PO. <table border="1" style="width: 100%;"> <tr> <th>Paint Scheme</th> <th>Total DFT</th> </tr> <tr> <td>Primer: Zinc filled Epoxy</td> <td rowspan="3">Minimum 200 Microns</td> </tr> <tr> <td>Intermediate: Epoxy MIO</td> </tr> <tr> <td>Final: Aliphatic Polyurethane</td> </tr> </table> 5. INSPECTION AND TESTING As per BHEL QAP (Refer attached Annexure) 6. DOCUMENTATION: 6.1. Along with the offer: Signed and stamped copy of this specification as token of acceptance of the specification for execution in the event of Order. 6.2. After PO Placement: Two copies each of the following documents shall be submitted for approval. - G.A. Drawings with weights and dimensions - Technical Data sheets, Catalogue - Material specification details - Tests to be conducted - O&M manuals - Storage/Preservation instructions for at least three years.							Scope.	3.7	Hose Reel Tubing	Reinforced -rubber hose pipe as per IS:444 TYPE-II	3.8	Swivel Joint	SS (AISI-304)	3.9	Hydraulic Test	21 kg/cm ² (g)	3.10	Working Pressure	7 kg/cm ² (g) to 12 kg/cm ² (g)	3.11	Burst Pressure	30 kg/cm ² (g)	3.12	Water Flow rate at 7 kg/cm ² (g)	Not less than 24 lpm	3.13	Marking	a) Manufacturer's Name or trade-mark, b) Year of manufacture, and c) Length and Dia. of Hose Reel d) Type of Reel	Paint Scheme	Total DFT	Primer: Zinc filled Epoxy	Minimum 200 Microns	Intermediate: Epoxy MIO	Final: Aliphatic Polyurethane
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COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly or indirectly in any way detrimental to the interest of the company. Final documentation consisting of above documents shall be submitted in requisite sets (to be decided post order) of hard and soft copies. Schedule for document submissions: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">S.no</th> <th style="width: 60%;">Description</th> <th style="width: 30%;">Schedule</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Submission of GA drawing & Technical Datasheet by vendor</td> <td>7 days from the date of P.O.</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Approval GA drawing & Technical Datasheet by BHEL</td> <td>14 days from receipt of the document*</td> </tr> </tbody> </table> * The GA drawing & Technical Datasheet submitted by vendor shall be strictly in compliance to all applicable standards and specification. 7. PRESERVATION, PACKING & MARKING OR PACKING CASE: 7.1. A suitable temporary rust preventive with minimum life of two years shall be applied inside the item/equipment body in order to prevent corrosion. 7.2. All the item / equipment shall be packed suitably in closed wooden cases in order to avoid damage during transit and storage at BHEL. Suitable supports shall be provided inside the cases in order to avoid internal movement. In case of exported consignments, the packing shall be seaworthy (Refer enclosed Annexure for Export Packing guidelines, AA 0490009, Rev-01). Each item / equipment after end protection should be wrapped in polythene sheet before packing in the cases. Each packing case must contain two copies of the shipping list giving details of all the contents of the case. 7.3. The following marking shall be done on each packing case minimum on two sides and at the top. (a) Complete address of the consignee and destination as per BHEL Purchase Order. (b) BHEL Purchase order Number (c) BHEL item Material Code (d) Number of pieces in each packing case (e) Net Weight (f) Gross Weight (g) Packing case number and total number of packing (h) Arrow indicating top of the packing case.				S.no	Description	Schedule	1	Submission of GA drawing & Technical Datasheet by vendor	7 days from the date of P.O.	2	Approval GA drawing & Technical Datasheet by BHEL	14 days from receipt of the document*
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			Rev. No.	Date	Revision Details	Revised By	Checked By	Approved By
			00	22.03.2019	First Issue	-SD-	-SD-	-SD-
			01	07.02.2020	Revised Issue	-SD-	-SD-	-SD-
			Ref. Doc.					