

TTTD-106-1 Rev No. 5	Form No.		PROJECT ENGINEERING & SYSTEM DIVISION BHEL, HYDERABAD –32.			PY51394				
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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 BOX										
Revisions :		Prepared by:	Checked by:	Approved By:	Date					
		-SD-	-SD-	-SD-						
00		Sumant	Amit/PCS	MNSR	26.07.18					

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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 Box.

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	MS Hose Box (900x600x250)	PY9751394015
02	MS Hose Box (750x600x250)	PY9751394023
03	MS Hose Box (450x600x250)	PY9751394031
04	FRP Hose Box (750x600x250)	PY9751394040
05	FRP Hose Box (450x600x250)	PY9751394058

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

3. TECHNICAL REQUIREMENTS:

3.1. MS Hose Box:

Sl. No.	Requirements	Compliance
5.1	Size*	900 mm x 600mm x 250mm or 750 mm x 600mm x 250mm or 450 mm x 600mm x 250mm
5.2	MOC	MS 16 SWG & 3 mm thick toughened glass panel in front door with lock & two keys.
5.3	Mounting Arrangement :	Hose Box shall be suitable for both wall mounting and Pedestal mounting. For wall mounting, Hooks to be considered by Bidder. For Pedestal mounted, Only Pad plates to be considered by Bidder. (Pedestal or stand is in the

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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.				scope of BHEL)
		5.4	Special requirements	(i) <u>For Hose Box Size 900 mm x 600mm x 250mm</u> Each cabinet shall accommodate 2 nos. of 25 m long hoses and 1 no. branch pipe & nozzle. <u>For Hose Box Size 750 mm x 600mm x 250mm</u> Each cabinet shall accommodate 2 nos. of 15 m long hoses and 1 no. branch pipe & nozzle. <u>For Hose Box Size 450 mm x 600mm x 250mm</u> Each cabinet shall accommodate 2 nos. of 7.5 m long hoses and 1 no. branch pipe & nozzle.
				(ii) Cabinet to have double door having toughened glass panel (3 mm) with rubber lining and marked 'Fire' on it in 80 mm size letters.
				(iii) Approved lock with duplicate keys kept wired in a break glass key cabinet in the hose box itself.
				(iv) A spanner and a set of spare rubber rings packed in fresh chalk to be kept inside the hose box.
				(v) Clamp for holding branch pipe to be provided.
		5.5	Accessories	-Fastening nuts, bolts and hardware - Hammer for breaking the glass to take out the keys
		3.2. FRP Hose Box:		
Ref.	Doc.			

Sl. No.	Requirements	Compliance
5.1	Size *	750 mm x 600mm x 250mm or 450 mm x 600mm x 250mm
5.2	MOC	Material of construction: 3 mm thick FRP & 3 mm thick toughened glass panel in front door with lock & two keys.
5.3	Mounting Arrangement :	Hose Box shall be suitable for both wall mounting and Pedestal mounting. For wall mounting, Hooks to be considered by Bidder. For Pedestal mounted, Only Pad plates to be considered by Bidder. (Pedestal or stand is in the

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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"> <tr> <td></td> <td></td> <td>scope of BHEL)</td> </tr> <tr> <td>5.4</td> <td>Special requirements</td> <td> (i) <u>For Hose Box Size 750 mm x 600mm x 250mm</u> Each cabinet shall accommodate 2 nos. of 15 m long hoses and 1 no. branch pipe & nozzle. <u>For Hose Box Size 450 mm x 600mm x 250mm</u> Each cabinet shall accommodate 2 nos. of 7.5 m long hoses and 1 no. branch pipe & nozzle. </td> </tr> <tr> <td></td> <td></td> <td>(ii) Cabinet to have double door having toughened glass panel (3 mm) with rubber lining and marked 'Fire' on it in 80 mm size letters.</td> </tr> <tr> <td></td> <td></td> <td>(iii) Approved lock with duplicate keys kept wired in a break glass key cabinet in the hose box itself.</td> </tr> <tr> <td></td> <td></td> <td>(iv) A spanner and a set of spare rubber rings packed in fresh chalk to be kept inside the hose box.</td> </tr> <tr> <td></td> <td></td> <td>(v) Clamp for holding branch pipe to be provided.</td> </tr> <tr> <td>5.5</td> <td>Accessories</td> <td> -Fastening nuts, bolts and hardware - Hammer for breaking the glass to take out the keys </td> </tr> </table>						scope of BHEL)	5.4	Special requirements	(i) <u>For Hose Box Size 750 mm x 600mm x 250mm</u> Each cabinet shall accommodate 2 nos. of 15 m long hoses and 1 no. branch pipe & nozzle. <u>For Hose Box Size 450 mm x 600mm x 250mm</u> Each cabinet shall accommodate 2 nos. of 7.5 m long hoses and 1 no. branch pipe & nozzle.			(ii) Cabinet to have double door having toughened glass panel (3 mm) with rubber lining and marked 'Fire' on it in 80 mm size letters.			(iii) Approved lock with duplicate keys kept wired in a break glass key cabinet in the hose box itself.			(iv) A spanner and a set of spare rubber rings packed in fresh chalk to be kept inside the hose box.			(v) Clamp for holding branch pipe to be provided.	5.5	Accessories	-Fastening nuts, bolts and hardware - Hammer for breaking the glass to take out the keys
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	*Size & MOC of Hose box shall be as per Description mentioned in the Enquiry.																								
	4. PAINTING Tentative Painting details are as per the below table. However, Exact painting details and Final color shade shall be provided to Bidder after placement of PO. <table border="1"> <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>				Paint Scheme	Total DFT	Primer: Zinc filled Epoxy	Minimum 200 Microns	Intermediate: Epoxy MIO	Final: Aliphatic Polyurethane															
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5. INSPECTION AND TESTING As per BHEL QAP (Refer attached Annexure)																									
6. DOCUMENTATION:																									
6.1. Along with the offer:																									
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.	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. 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"> <thead> <tr> <th>S.no</th> <th>Description</th> <th>Schedule</th> </tr> </thead> <tbody> <tr> <td>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>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.			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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	Ref. Doc.			

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			Rev. No.	Date	Revision Details	Revised By	Checked By	Approved By
			00	26.07.2018	First Issue	-SD-	-SD-	-SD-
			01	07.02.2020	Revised Issue	-SD-	-SD-	-SD-
			Ref. Doc.					