

TTTD-106-1 Rev No. 5 Form No.		PROJECT ENGINEERING & SYSTEM DIVISION BHEL, HYDERABAD –32.			PY51409					
					Rev No. 00					
					Page 1 of 7					
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 BRANCH PIPE WITH NOZZLE										
					Revisions :		Prepared by:	Checked by:	Approved By:	Date
							-SD-	-SD-	-SD-	
					00	Sumant	Amit/PCS	MNSR	28.07.18	

TD-106-2 Rev No. 5 Form No.		PROJECT ENGINEERING & SYSTEM DIVISION BHEL, HYDERABAD –32.	PY51409																											
			Rev No. 00																											
			Page 2 of 7																											
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.	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 Branch Pipe with Nozzle. 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 based protection system).																													
2. VARIANT TABLE:		<table border="1"> <thead> <tr> <th>Var. No.</th> <th>Description</th> <th>Material Code</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>Triple purpose nozzle (SS304)</td> <td>PY9751409012</td> </tr> <tr> <td>02</td> <td>Triple purpose nozzle (SS316)</td> <td>PY9751409020</td> </tr> <tr> <td>03</td> <td>Fog type nozzle (SS304)</td> <td>PY9751409039</td> </tr> <tr> <td>04</td> <td>Fog type nozzle (SS316)</td> <td>PY9751409047</td> </tr> <tr> <td>05</td> <td>Short Branch with nozzle (SS304)</td> <td>PY9751409055</td> </tr> <tr> <td>06</td> <td>Short Branch with nozzle (SS316)</td> <td>PY9751409063</td> </tr> </tbody> </table> Note: Bidder to quote as per Material Code as mentioned in the Enquiry		Var. No.	Description	Material Code	01	Triple purpose nozzle (SS304)	PY9751409012	02	Triple purpose nozzle (SS316)	PY9751409020	03	Fog type nozzle (SS304)	PY9751409039	04	Fog type nozzle (SS316)	PY9751409047	05	Short Branch with nozzle (SS304)	PY9751409055	06	Short Branch with nozzle (SS316)	PY9751409063						
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3.2. SS 316 Triple Purpose nozzle, Fog Type nozzle and Branch pipe with Solid Jet Nozzle

Sl. No.	Requirements	Compliance
A	TRIPLE PURPOSE NOZZLE	
3.1	Size	63 mm dia. Male instantaneous inlet
3.2	Outlet	Hollow jet, Spray and Shut Off
3.3	Standard	IS:2871
3.4	Approvals	ISI
3.5	Material of Construction	
3.5.1	Body	SS 316 (IS:3444, Gr 4)
3.5.2	Nozzle	SS 316 (IS:3444, Gr 4)
3.5.3	Diffuser Nut & Valve	SS 316 (IS:3444, Gr 4)
3.5.4	Washer & O Ring	Rubber IS:937
3.6	Finish	Natural finish
3.7	End Connection	Instantaneous type male coupling of size 63 mm
3.8	Working Pressure	5 Kgf/cm ² to 12 Kgf/cm ²
3.9	Hydraulic Test Pressure	21 Kgf/cm ² (For 2.5 Minutes)
B	FOG TYPE NOZZLE	
3.1	Size	63 mm dia. Male instantaneous inlet
3.2	Outlet	Solid jet or dense even fog
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3.5.2	Bush	SS 316 (IS:3444, Gr 4)
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3.9	Hydraulic Test Pressure	21 Kgf/cm ² (For 2.5 Minutes)
C	SHORT BRANCHPIPE WITH NOZZLE	
3.1	Size	63 mm dia. Male instantaneous inlet

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TD-106-2 Rev No. 5 Form No.		PROJECT ENGINEERING & SYSTEM DIVISION BHEL, HYDERABAD –32.		PY51409																																	
				Rev No. 00																																	
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TD-106-2 Rev No. 5 Form No.		PROJECT ENGINEERING & SYSTEM DIVISION BHEL, HYDERABAD –32.	PY51409								
			Rev No. 00								
			Page 6 of 7								
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TD-106-3	Rev No. 5	Form No.		PRODUCT STANDARD BHEL, HYDERABAD –32. PROJECT ENGINEERING & SYSTEM DIVISION			PY51409	
							Rev No. 00	
							Page 7 of 7	
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			Rev. No.	Date	Revision Details	Revised By	Checked By	Approved By
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