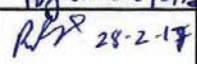
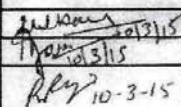


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				Page 1 of 1																							
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	AGREED DEPTT.	NAME	DATE & SIGNATURE	APPROVED BY	R PANJA																						
					 28-2-17																						

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							Page 1 of 1																						
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				PAGE 1 OF 4																																												
				PURCHASE SPECIFICATION FOR SPRAY NOZZLE																																												
SUPERSIDES INVENTORY No.		1.0 SCOPE: This Specification deals with the Design, manufacture and supply of water spray nozzles used in turbine Systems. 2.0 FUNCTION: These Spray Nozzle perform the task to spray condensate in hot steam to bring down steam temperature. For effective cooling the Spray Nozzle must produce very fine water particles, so that they can easily evaporate & mix with steam. These are used in Low Pressure Turbine Exhaust hood Spray System & flash box spray system. 3.0 DESIGN : The source of water is condensate pump & spray nozzle must be designed to withstand the maximum inlet pressure indicated in relevent table (1 or 2). The spray nozzle should be capable to spray water quantity at a given differential pressure as indicated in relevent table (1 or 2). Bore size given in the table are only for reference and supplier can offer alternate size depending on his design. However, it shall be subject to BHEL/BHEL's customer's approval. Material of the spray nozzle and its parts shall be suitable to withstand a temperature of 450°C and must have good erosion and corrosion resistance. The material indicated in the table are only for reference. Supplier can offer 2/-																																														
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								PAGE 3 OF 4
sample nozzle to prove the compliance of the nozzles with respect to information submitted along with offer and shall have the right to witness the test. However, a separate price may be quoted for such a test. 7.0 WHEREVER Standards have been mentioned, the latest issue & amendment shall apply. 8.0 <u>GUARANTEE</u>: The supplier shall guarantee trouble free operation of the equipment for a period of 2 years after installation and commissioning or ^{for} a period of 3 years from the day of despatch of equipment whichever is earlier. If during erection/commissioning and operation at site any defect in any component is detected, purchaser's/owner's site representative shall prepare the assessment report and a copy of same shall be forwarded to the supplier. The supplier shall replace/rectify the concerned items free of charge. The supplier, if he so desires may depute his representative to site at his own cost otherwise the report of purchaser's/owner's site representative shall be binding on the supplier. 9.0 <u>CONSERVATION/PACKING</u>: The component shall be conserved so as to last for one year after despatch. Packing shall be seaworthy and such that any external damage to the component during transit is eliminated. 10. <u>GENERAL</u>: If there is any deviation from this specification in offer, the same should be clearly spelled out clause-wise by supplier.								
Rev. 01					WORKED BY A.B. GUPTA <i>Alagun</i> 20.2.85 CHECKED BY K.C. SACHAN <i>lsachan</i> 20.2.85			

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A-5557		08/15/85		08/15/85	
Rev. 01.		Rev. 01.		Rev. 01.	
WORKED BY		CHECKED BY		DATE	
A. B. GUPTA		K. C. SACHAN		20-2-85	
A. B. GUPTA		K. C. SACHAN		20-2-85	



PRODUCT STANDARD
STEAM TURBINE ENGINEERING

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TABLE-1

	Type A (Flash Box)	Type B (LP Exh.)
Bore mm	6.5	3.2
Capacity	34 lit/mt.	6.52 lit/mt.
Pressure drop across nozzle	4 kg/cm ²	8 kg/cm ²
Spray cone angle at tip.	90°	70°
Maximum Inlet pr.	20 kg/cm ²	20 kg/cm ²
Thread connection	R 1/2"	R 1/2"
Material	X10CrNiTi189	X10CrNiTi189

TABLE-2

	Type A (Flash Box)	Type B (LP Exhaust)
Bore mm	5.5	4.8
Capacity	22.4 lit/min	15.60 lit/min
Pressure Drop across Nozzle kg/cm	4	9
Spray Cone Angle of Tip	90°	70°
Maximum Inlet Pr. kg/cm ²	45	45
Thread Connection	R 1/2"	R 1/2"
Material	X10CrNiTi189	X10CrNiTi 189

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