



- APPLICATION OF EQUIPMENT :**
 DRY AIR BLOWING EQUIPMENT SHALL BE USED FOR REMOVING THE MOIST AIR FROM TURBINE AND REPLACING IT WITH DRY AIR DURING SHUT DOWN OF TURBINE TO PREVENT CORROSION.
- SPECIFICATION :**
 TWO UNITS OF DRY AIR BLOWING EQUIPMENT (ONE UNIT OF ATLEAST 120 m³/hr CAPACITY AND SECOND UNIT OF ATLEAST 1000 m³/hr CAPACITY) AS PER ANNEXURE - A, WITH FOLLOWING OUTLET CONDITIONS :
 A. TEMPERATURE OF DRY AIR AT OUTLET MAX. 60 °C.
 B. RELATIVE HUMIDITY < 11% AT AMBIENT TEMPERATURE.
 C. PROVISION OF AIR FILTER(S) IN THE SYSTEM TO PREVENT THE DUST PARTICLES > 55 MICRON.
 D. NOISE LEVEL AT FULL LOAD < 85 DB(A), WHEN MEASURED AT A DISTANCE OF 1 METRE AND HEIGHT OF 1.5 METRE.
- GENERAL DESIGN FEATURES :**
 A. THE DRY AIR BLOWER(S) SHOULD BE SINGLE, COMPACT, PORTABLE & READY TO SWITCH IN UNIT AT SITE.
 B. IT SHOULD BE CAPABLE TO HANDLE TOTAL PRESSURE DROP IN THE SYSTEM.
 C. THE EQUIPMENT SHALL BE SKID MOUNTED AND SHOULD NOT REQUIRE ANY FIXING WITH FOUNDATION.
 D. THE EQUIPMENT SHOULD BE ABLE TO OPERATE WITH 415 V-3 PHASE AND/OR 230 V A.C. MAIN SUPPLY.
- SCOPE OF SUPPLY :**
 BILL OF MATERIAL -

ITEM NO.	DESCRIPTION	QTY
10	INSTRUMENTS FOR MEASURING THE AIR CONDITIONS AT INLET & OUTLET OF TURBINE	4 SETS
9	FASTENERS-BOLTS/NUTS/CLAMPS-FOR CONNECTING FLANGES/HOSES etc.	1 SET
8	HOSE PIPE DN150, L=10 m WITH SUITABLE END CONNECTIONS	01
7	HOSE PIPE DN150, L=30 m WITH SUITABLE CONNECTION FOR REACTIVATION AIR	01
6	HOSE PIPE DN150, L=5 m WITH SUITABLE FLANGE AS PER DETAIL-II	02
5	AIR DRYER OF CAPACITY ATLEAST 1000 m³/hr WITH TWO OUTLETS	01
4	HOSE PIPE DN80, L=30 m WITH SUITABLE CONNECTION FOR REACTIVATION AIR	01
3	HOSE PIPE DN80, L=5 m WITH SUITABLE FLANGE AS PER DETAIL-I	02
2	HOSE PIPE DN80, L=5 m WITH SUITABLE END CONNECTIONS	02
1	AIR DRYER OF CAPACITY ATLEAST 120 m³/hr WITH 2 OUTLETS	01

- PAINITING :**
 THE EQUIPMENT WILL BE PAINTED WITH FULL GLOSS POLYURETHANE FINISHING PAINT (DFT 200 μ m). DETAILS AS PER ANNEXURE - B.
- DOCUMENTS FOR ONE TIME APPROVAL :**
 A. VENDOR'S OWN DRAWINGS INCLUDING BILL OF MATERIAL.
 B. POWER WIRING DIAGRAM OF MOTORS, HEATERS AND CONTROLS.
 C. DATA SHEETS OF MOTORS, HEATERS AND CONTACTORS.
 D. PAINTING SCHEME.
 E. PERFORMANCE TEST PROCEDURE.
 F. PERFORMANCE CHARACTERISTIC CURVE.
 G. QUALITY PLAN GIVING IN DETAILS OF THE QUALITY CHECKS CARRIED OUT BY THE VENDOR.
- TEST/GUARANTEE CERTIFICATE :**
 A. PERFORMANCE CERTIFICATES FOR FLOW RATE, TEMPERATURE AND RELATIVE HUMIDITY OF DRY AIR AT OUTLET.
 B. PERFORMANCE CERTIFICATES FOR NOISE LEVEL.
 C. MATERIAL & PERFORMANCE TEST CERTIFICATES OF ALL PARTS/ASSEMBLIES.
 D. GUARANTEE CERTIFICATE FOR SMOOTH AND RELIABLE FUNCTIONING OF THE EQUIPMENT.
- OPERATING MANUAL :**
 22 COPIES (20 FOR SITE AND 2 FOR BHEL, HARDWARE) OF OPERATION & MAINTENANCE MANUAL, COVERING ALL ASPECTS OF INSTALLATION, OPERATION AND MAINTENANCE, ARE TO BE SUPPLIED.

Inventory No.	Sign & Date	Ref. Drawing No >
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REV	DATE	ALTERED	REV	DATE	ALTERED	REV	DATE	ALTERED
8		CHECKED	7		CHECKED	6		CHECKED

REV	DATE	ALTERED	REV	DATE	ALTERED	REV	DATE	ALTERED
02	22.04.21	CHECKED MUKUL	01	26.09.08	CHECKED AKG SD/-			

GRADE OF UNTOL. DIM		M/GS- AA0230208 m		WELDING-CLASS 'B' OF AA0621104		GAS CUTTING-TABLE 3 OF AA0624101	
MATERIAL		AA0230208 m		AA0621104		AA0624101	
DATE		22.04.21		26.09.08		20.09.04	
CHECKED		MUKUL		AKG SD/-		JAIN SD/-	
IN DRAWING DETAIL-II		DIMENSION 34mm & THROUGH HOLES ADDED.		AS PER C/A NO. STE-21-F0099.			
TYPE OF PRODUCT		OR		NAME OF CUSTOMER/PROJECT		STEAM TURBINE	
DEPT		SITE		SCALE		WEIGHT (KG)	
4011						75 74	
TITLE : DRY AIR PRESERVATION SYSTEM (210/250 MW)		CARD CODE		DRAWING NO.		2-12076-46000	
		7		SHEET No.		1	
				No. OF SHEETS		1	
				SIZE		A2	