

 PRORITES EQUIPMENTS PVT. LTD. GAT NO. 83, JYOTIBA NAGAR, TALAWADE, PUNE-411062		
TECHNICAL DATASHEET - DOSING SYSTEM		
CUSTOMER	THYSSENKRUP INDUSTRIES INDIA PVT. LTD.	PEPL/DS/028/22-23
PROJECT	ORISSA METALLURGICAL INDUSTRY PVT LTD & ORISSA STEEL POWER PVT LTD	DATE : 11/06/2022
PROJECT NOS:	2M.0069 & 2M.0070	R1
COMPONENT	HP DOSING SYSTEM	LP DOSING SYSTEM
DESCRIPTION	HP DOSING SYSTEM MOUNTED ON A COMMON BASEFRAME WITH TANK, PUMPS, INTERCONNECTING PIPINGS, VALVES, INSTRUMENTS, MATING FLANGES, HARDWARE, GASKETS & FOUNDATION BOLTS.	LP DOSING SYSTEM MOUNTED ON A COMMON BASE FRAME WITH TANK, PUMPS, INTERCONNECTING PIPINGS, VALVES, INSTRUMENTS, MATING FLANGES, HARDWARE, GASKETS & FOUNDATION BOLTS.
DOSING TANK	500 LTR SS316 TANK Ø900 X 1100 Ht DISHED END BOTTOM, HINGED COVER. THICKNESS - SHELL 3 mm, TOP COVER WITH OBSERVATION HOLE OF BOROSILICATE GLASS WITH DISSOLVING BASKET #4 MESH 8mm Legs CS.	1100 LTR SS316 TANK Ø1200 X 1300 Ht DISHED END BOTTOM, HINGED COVER. THICKNESS - SHELL 3 mm, TOP COVER 8mm Legs CS.
DOSING PUMP	Plunger type with manual stroke adjustment. 0-31 LPH / 145 Kg/CM2 (g) , MOC wetted parts SS316. Qty = 2 Nos. (Milton Roy Model PNK-16B)	Plunger type with manual stroke adjustment. 0-60 LPH / 10Kg/CM2 (g), MOC wetted parts SS316. Qty = 2 Nos(Milton Roy Model : PNM-40B)
MOTORS FOR PUMP	TEFC/1.1 kw / 4 pole / Foot Mtg / 415 V / 50 Hz / 3 ph / IE-3/IP55/ SAFE AREA = 2 Nos	TEFC/0.37 kw / 4 pole / Foot Mtg / 415 V / 50 Hz / 3 ph / IE-3/IP55/ SAFE AREA = 2 Nos
EXTERNAL PRV	MOC : SS304, 1/2" BSP, Set Pr. 174 Kg/CM2	MOC : SS304, 1/2" BSP, Set Pr. 14 Kg/CM2
MOTORISED AGITATOR	TOP MOUNTED DIRECTLY COUPLED ITH REDUCTION GEAR BOX 100 RPM, SHAFT & IMPELLER MOC SS316	TOP MOUNTED DIRECTLY COUPLED ITH REDUCTION GEAR BOX 100 RPM, SHAFT & IMPELLER MOC SS316
MOTOR FOR AGITATOR	TEFC/0.37 kw / 4 pole / FLANGE Mtg / 415 V / 50 Hz / 3 ph / IE-3/IP55/ SAFE AREA = 2 Nos	TEFC/0.37 kw / 6 pole / Foot Mtg / 415 V / 50 Hz / 3 ph / IE-3/IP66/ SAFE AREA = 2 Nos
GEAR BOX FOR AGITATOR	INLINE HELICAL GEAR BOX 1400 TO 100 RPM	INLINE HELICAL GEAR BOX 1400 TO 100 RPM
LEVEL GAUGE	REFLEX TYPE LEVEL GAUGE WITH BOROSILICATE GLASS CTC 900, WETTED PARTS SS316. MOUNTING 1/2" #150	REFLEX TYPE LEVEL GAUGE WITH BOROSILICATE GLASS CTC 1100, WETTED PARTS SS316. MOUNTING 1/2" #150
LEVEL TRANSMITTER	DP TYPE LEVEL TRANSMITTER 2" #150	DP TYPE LEVEL TRANSMITTER 2" #150
PRESSURE TRANSMITTER	DP TYPE , ART TYPE SENSOR SHALL BE MICROPROCESSOR BASED.	DP TYPE , ART TYPE SENSOR SHALL BE MICROPROCESSOR BASED.
PR GAUGE	CHEMICAL SEALED BOURDON TYPE WITH 1/2" ISOLATION VALVE AND SNUBBER. SS 316, RANGE 0-310 KG/CM2 DIAL 150 = 2 Nos	CHEMICAL SEALED BOURDON TYPE WITH 1/2" ISOLATION VALVE AND SNUBBER. SS 316, RANGE 0-21 KG/CM2 DIAL 150 = 2 Nos
PULSATION DAMPENER	VOLUME BOTTLE TYPE. SS 304 = 2 Nos	VOLUME BOTTLE TYPE. SS 304 = 2 Nos
SUCTION STRAINER	Y TYPE STRAINER, 20 NB SS 304 = 2 Nos	Y TYPE STRAINER, 20 NB SS 304 = 2 Nos
ISOLATION VALVES FOR LT	BALL VALVE SS 304 REGULAR BORE, FLANGE END 2" #150 QTY 2 Nos	BALL VALVE SS 304 REGULAR BORE, FLANGE END 2" #150 QTY 2 Nos
SUCTION VALVES	BALL VALVES 20/15 NB SW CL 800, 3P, CF8	BALL VALVES 20/15 NB SW CL 800, 3P, CF8
DISCHARGE VALVES	GLOBE VALVES 20NB SW CL 1500, 3P, CF8 / CF8M	BALL VALVES 20 NB SW CL 800, 3P, CF8
DISCHARGE ISOLATION VALVES (PG & SAMPLE LINE,PT)	GLOBE VALVES 15 NB SW CL 1500, 3P, CF8 / CF8M	BALL VALVES 15 NB SW CL 800, 3P, CF8
NON RETURN VALVE	LIFT CHECK VALVES. 20NB CL 1500, CF8/CF8M = 2 Nos	LIFT CHECK VALVES. 25 NB CL 800, CF8/CF8M = 2 Nos
SUCTION SIDE PIPING	20 NB SCH 40. SA312 TP 304 SEAMLESS	20 NB SCH 40. SA312 TP 304 SEAMLESS
DISCHARGE SIDE PIPING	20 NB SCH 80. SA312 TP 304 SEAMLESS	20 NB SCH 40. SA312 TP 304 SEAMLESS
FITTINGS	20 NB CL 3000 SW FITTINGS. SA182 F 316	20 NB CL 3000 SW FITTINGS. SA182 F 316
FLANGES - SUCTION SIDE	20 NB SWRF B16.5 CL 150. SA182 F 304	20 NB SORF B16.5 CL 150. SA182 F 304
FLANGES - DISCHARGE SIDE	20 NB SWRF B16.5 CL 1500. SA182 F 304	20 NB SORF B16.5 CL 150. SA182 F 304
HARDWARE	SS 304	SS 304
GASKETS	FOR SUCTION SIDE CNAF AND FOR DISCHARGE SIDE SPIRAL WOUND GASKET	CNAF GASKETS
FOUNDATION BOLTS	M12 X 200 L - CS	M12 X 200 L - CS
BASE FRAME	COMMON BASE FRAME FABRICATED FROM ISMC 100 X 50	COMMON BASE FRAME FABRICATED FROM ISMC 100 X 50
BREATHING BOX	NA	DIA 114 X 125 L TOP MOUNTED
HOPPER	NA	YES
OBSERVATION HOLE	YES	YES
WEATHER HOODS	FOR DRIVE MOTORS & AGITATOR MOTORS	FOR DRIVE MOTORS & AGITATOR MOTORS
PAINT	1 COAT EPOXY PRIMER & 1 COAT PU SMOKE GREY TOTAL DFT=90 MICRON	1 COAT EPOXY PRIMER & 1 COAT PU SMOKE GREY TOTAL DFT=90 MICRON
DEVIATION: We have considered ball valves for LP Dosing discharge side instead of globe valves. For PRORITES EQUIPMENTS PVT LTD.		
 Pratiksha Jagtap Engineering		

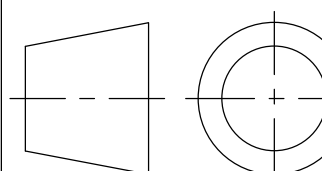




NOTES :

1. ALL VENTS TO BE ROUTED TO A SAFE HEIGHT/ROOF TOP & DRAINS TO BE LED TO NEAREST DRAIN TRENCH.
2. ALL MOTORIZED ACTUATORS WILL BE WITH INTEGRAL STARTER.
3. FOR LEGEND REFER DRAWING NO. D12-3FB-33795-00
4. ALL DRAINS AND VENTS SHALL BE 25NB.
5. INSTRUMENTS SHALL BE DIAPHRAGM SEAL TYPE.
6. FOR ALL EQUIPMENTS/INSTRUMENTS SHALL HAVE TAG NOS. WITH PREFIX 'SG00' FOR COMMON SYSTEM, 'SG01' FOR BOILER-1 & 'SG02' FOR BOILER-2.



BOILER NO. : FBB 97		PROJECT NO. 2M.0070						
PROJECT : 1x180 tph CFBC Boiler (EP basis), OSPPL, JHARGRAM, WB								
	Castings as per	General Tolerances for		4				
		Welded Construction as per ISO:13920	Machined Components as per ISO:2768	3				
		A for linear	m for linear	2	CLIENTS COMMENTS UPDATED AND TAGGING ADDED.		13.04.22	D.S.K.
		A for angular	m for angular	Index	Description	Date	Name	
Surface Texture as per IS 10719								
Scale		Date	Name	☐ Critical dimensions.				
NTS	Drawn	21.02.2022	D.S.K./D.S.B.	thyssenkrupp Industries India Pvt. Ltd. Pimpri Pune - 411 018				
	Checked	21.02.2022	SONAWANE M.					
	Approved	21.02.2022	PATIL A.R.					
Title				D12-2FB-23626-01				
P & I DIAGRAM FOR HP & LP DOSING								
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