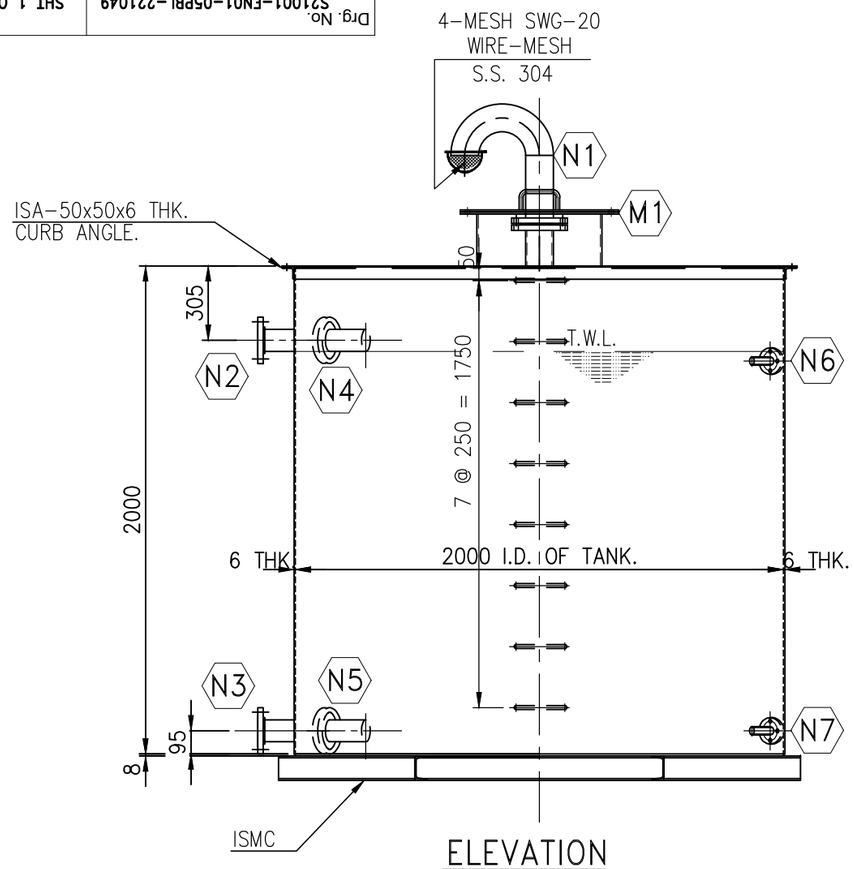
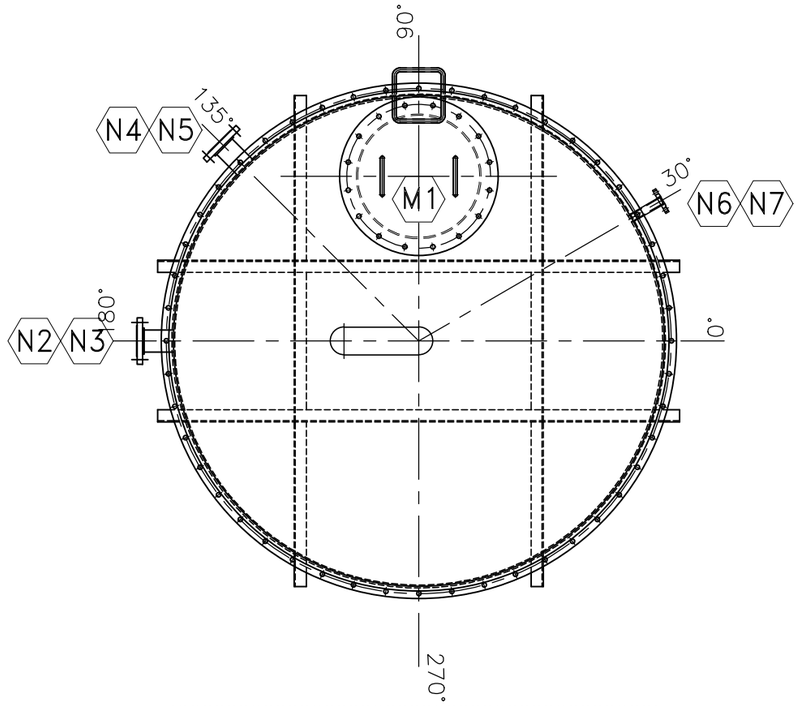
Drg. No. S21001-EN01-05PBL-221049 | SHT 1 OF 1



ELEVATION



NOZZLE ORIENTATION PLAN
HOLD

ROOF NOZZLE SCHEDULE

MARK	NOZZLE SIZE (NB)	SCH./THK.	QTY.	FLANGE TO ANSI B16.5 RATING	TYPE	FACE	SERVICE	PROJ.	REMARKS
M1	600 8	THK.	1	AS PER IS 803			MANHOLE	150	
N1	80	SCH.40	1	150#	S.O.	R.F.	VENT	150	WITH GOOSE NECK

SHELL NOZZLE SCHEDULE

MARK	NOZZLE SIZE (NB)	SCH./THK.	QTY.	FLANGE TO ANSI B16.5 RATING	TYPE	FACE	SERVICE	PROJ.	REMARKS
N2	50	SCH.80	1	150#	S.O.	R.F.	OVERFLOW	175	
N3	40	SCH.80	1	150#	S.O.	R.F.	DRAIN	275	
N4	80	SCH.40	1	150#	S.O.	R.F.	OUT LET	150	
N5	25	SCH. 80	1	150 #	S.O	R.F	TANK INLET	150	
N6	25	SCH. 80	2	150 #	S.O	R.F	FOR LEVEL SWITCH	150	
N7	25	SCH. 80	2	150 #	S.O	R.F	FOR LEVEL SWITCH	150	

PAINTING

PRIMER EXTERNAL	2 COATS OF EPOXY ZINC PHOSPHATE PRIMER. DFT/COAT 35 MICRONS
FINAL EXTERNAL	CHLORINATED RUBBER PAINT OF DFT 500 MICRONS.
FINAL INTERNAL	EPOXY PAINT OF DFT 400 MICRONS.

DESIGN DATA

DESIGN CODE	IS 803
SERVICE	FRESH WATER
LIQUID HANDLED	WATER
LIQUID DENSITY KG/M^3	1000
OPERATING TEMPERATURE (°C)	AMBIENT
DESIGN TEMPERATURE (°C)	50°C
OPERATING PRESSURE KG/CM^2(g)	ATM
DESIGN PRESSURE KG/CM^2(g)	FULL OF WATER + ATMOSPHERIC
TEST PRESSURE KG/CM^2	FULL OF WATER
CORROSION ALLOWANCE (BOTTOM/SHELL)	1.5 mm
CORROSION ALLOWANCE (ROOF)	1.5 mm
JOINT EFFICIENCY	0.7
RADIOGRAPHY	NIL
INSULATION	NO
CAPACITY (m^3) NOMINAL	5.0
BASIC WIND SPEED	
SEISMIC /DESIGN	
QTY. REQUIRED	01 NO.
EMPTY WEIGHT	~1000 Kg. HOLD
OPERATING WEIGHT	
TEST WEIGHT (FULL OF WATER)	

MATERIAL OF CONSTRUCTION

SHELL PLATE & TOP COVER PLATE	IS 2062 GR. B
BOTTOM PLATE	IS 2062 GR. B
MANHOLE NECKS.	IS 2062 GR. B
MANHOLE FLANGES.	IS 2062 GR. B
NOZZLE FLG. & BLIND FLG.	SA 105
NOZZLE PIPES ≤ 250 NB	SA 106 GR.B
NOZZLE PIPES (FAB.) > 250 NB	IS 2062 GR. B
FLANGE DRILLING	ANSI B 16.5
R.F.PADS, GUSSETS, NOZZLES STIFFENERS	IS 2062 GR. B
ANCHOR BOLTS	IS 1367 GR. 4.6 OR EQUIVALENT
BOLTS & NUTS (NOZZLES)	IS 1367 CL. 4.6/4.0
STRUCTURALS (CURB ANGLE/ROOF STIFFENERS)	IS 2062
GASKET (3 THK.)	IS 2712
EXTERNAL (GUSSETS)	IS 2062
NAME PLATE/BRACKET	SS 304/IS 2062
EARTHING CONNECTION	IS 2062 GR.A / COPPER
LADDER / HANDRAIL	IS 1239(CLASS MEDIUM) GALVANIZED
GRATINGS	IS 2062

GENERAL NOTES :-

1) ALL DIMENSIONS ARE IN MILLIMETERS AND ALL LEVELS & COORDINATES ARE IN METERS, UNLESS NOTED OTHERWISE.
2) TANKS SHALL BE DESIGNED, FABRICATED & TESTED TO THE REQUIREMENT OF IS 803.
3) TOLERANCE AS PER IS 803.
4) NOZZLE UPTO 50NB TO BE STIFFENED WITH 2 NOS. STIFFENERS OF 40 mm WIDE & 6 THK. FLAT WELDS AT 90°.
5) DP TEXT SHOULD BE APPLIED ON ALL WELDING JOINTS ON THE BOTTOM OF TANKS.

ISSUED FOR	APPROVAL ☐	INFORMATION ☐	MANUFACTURING ☐	CONSTRUCTION ☐	AS-BUILT ☐

REV.	DATE	DESCRIPTION OF REVISIONS	DRAWN	CHECKED	APPR'D
00	25/02/2022	FIRST ISSUE	BK	SM	BCB

REV.	ZONE	DRN/DT	CHD/DT	APPD/DT	DESCRIPTION	DESIGNED	CHECKED	APPROV.	REV.	DATE

REVISION

RELEASE STATUS	DATE	SIGNATURE
PRELIMINARY		
FOR TENDER ONLY		
FOR CONSTRUCTION		
REVIEWED: ARCHITECTURAL		
REVIEWED: CIVIL & STRUCTURAL		
REVIEWED: ELECTRICAL		
REVIEWED: INSTRUMENTATION		
REVIEWED: MECHANICAL		

Owner:
HINDALCO INDUSTRIES LIMITED
Ahura Centre, 1st Floor, B Wing, Mahakali Caves Road, Andheri (East),
Mumbai - 400 093, India

EPCM Contractor:
W. L. GORE & ASSOCIATES (Pacific) Pte, Ltd. India Branch
703, A-Wing, 215 Atrium, Andheri Kurla Road,
Mumbai - 400059, India

Nominated Subcontractor - Engineering, Quality Control, Supervision:
SMARTLuth Solution and Service Pvt. Ltd.
Unit No: 503, 5th Floor, ECO Centre,. EM-4 Sector-V, Salt Lake City,
Kolkata - 700091, India

Hindalco Renusagar U5 1x80 MW PF Captive Power Plant
Flue Gas Desulfurization Project (FGD) with GORE™ SO_2 Control System

GA DRAWING OF OVER HEAD TANK

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Drg. No. **S21001-EN01-05PBL-221049**
GORE No. **RPDU5.MV.XXX** | SH 1 OF 1
GORE Job No. **RPDU5** | SCALE: **1:25**
File: **XXX**

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