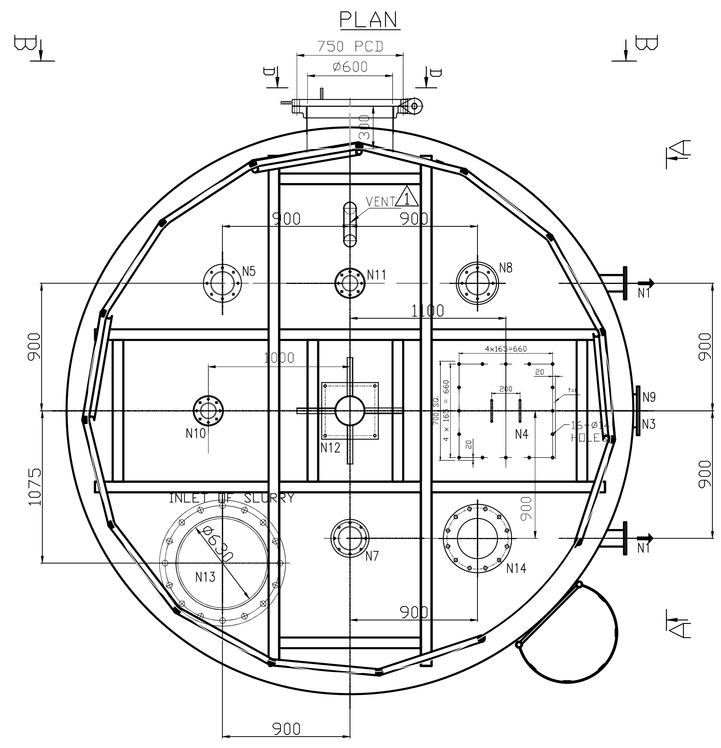
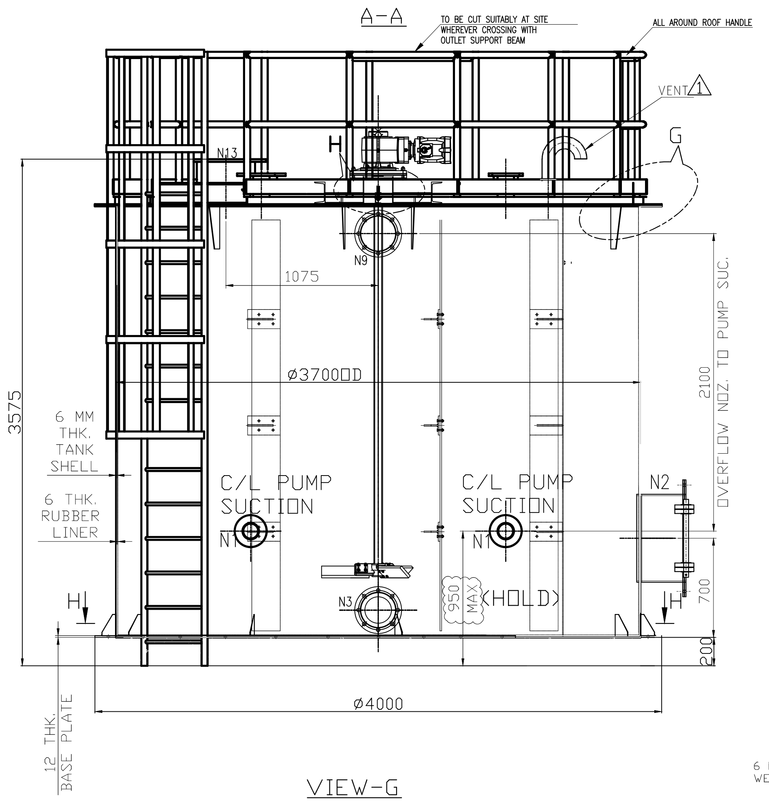
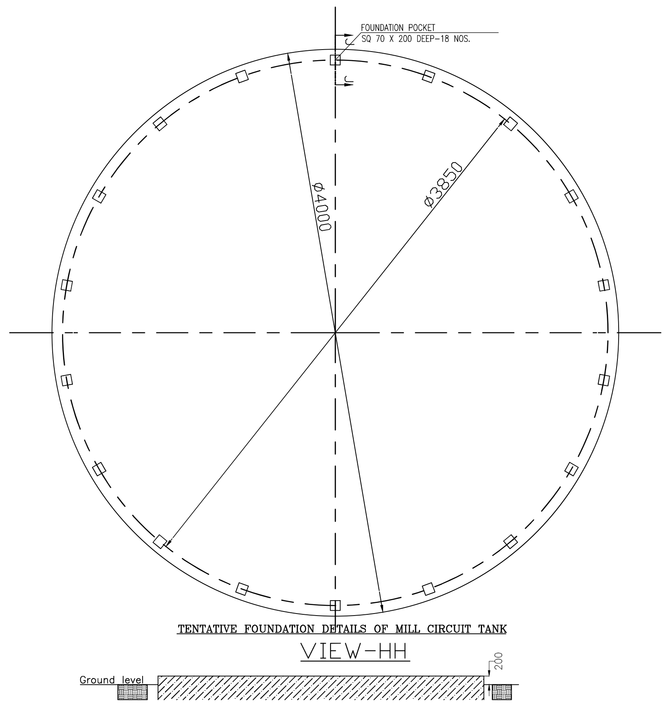
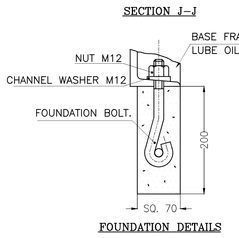
DRAWING NO. X-XX-XXX-XX-XXXXX

ANNEXURE-3









DESIGN DATA		
01	DESIGN CODE	IS: 803
02	TAG NO.	00HTK00BB001 & 00HTK00BB002
03	QUANTITY	2 NOS.
04	ORIENTATION	VERTICAL
05	DESIGN PRESSURE	ATMOSPHERIC + STATIC (3450 MM)
06	DESIGN TEMPERATURE	70°
07	OPERATING PRESSURE	ATMOSPHERIC
08	OPERATING TEMPERATURE	61°
09	HYDRO TEST PRESSURE	FULL OF WATER
10	FLUID TYPE	LIME STONE SLURRY
11	FLUID DENSITY	1450 Kg./M^3
12	CORROSION ALLOWANCE	1.5 MM
13	POST WELD HEAT TREATMENT	NA
14	JOINT EFFICIENCY	0.7
15	RADIOGRAPHIC REQUIREMENT	NIL
16	EFFECTIVE CAPACITY	22 CU.M
17	TOTAL CAPACITY	32 CU.M
18	WIND DESIGN CODE	IS: 875
19	SEISMIC DESIGN CODE	IS: 1893
20	WEIGHT	
A	EMPTY ,INC. AGITATOR & LINER	5000 KGS.(TENTATIVE)
B	OPERATING (UPTO HHL)	30000 KGS(TENTATIVE)

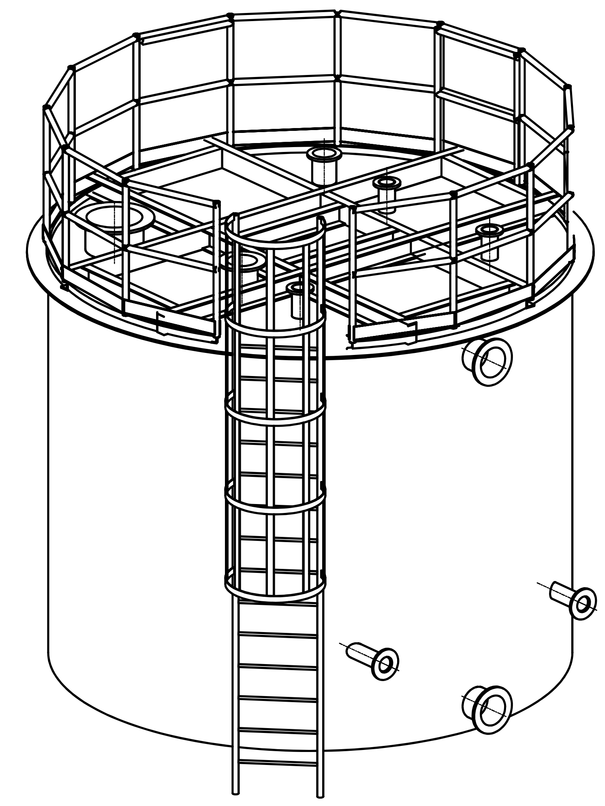
MATERIAL OF CONSTRUCTION		
01	SHELL /HEADS/R.F. PADS	IS: 2062 E250 GR. BR
02	NOZZLE FROM PLATE	IS: 2062 E250 GR. BR
03	NOZZLE FROM PIPE	ERW IS:1978
04	NOZZLE FLANGE/BLIND FLANGE	IS:2062
05	MANHOLE FLANGE	IS: 2062 E250 GR. BR
06	FITTINGS	A 234 Gr.WPB/ASTM A105/IS: 1239 (UPTO 150 NB)
07	GASKET	SPIRAL WOUNDED METALLIC GASKET WITH GRAPHITE FILLER
08	EARTHING LUG	A240-304
09	STUDS BOLT/NUTS	A 193 Gr.B7/A 194 Gr.2h
10	NAME PLATE	ANSI-316
11	FOUNDATION BOLT	CAST STEEL GR. 8.8
12	LADDER	IS:2062
13	HAND RAIL	ERW PIPE, IS:1239

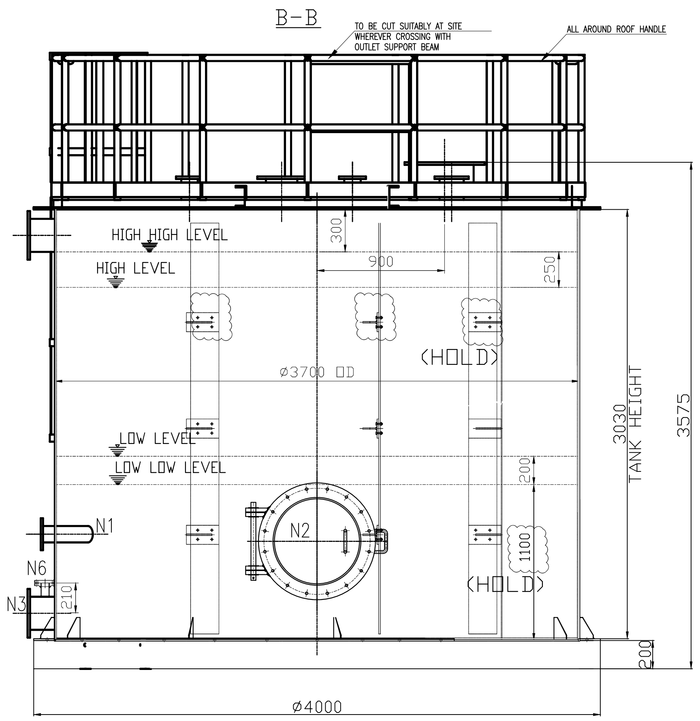
NOZZLE DATA							
POSITION	DIMENSION	FLANGE TYPE	STD. FOR DIMENSION	R-PAD	QTY	LOCATION
N1	DN200	SORF TYPE	ASME B16.5, 150#	ø356 mm	2	PUMP SUCTION (AT SHELL)
N2	ø600	FF	IS-803/API 650	ø900mm	1	MAN HOLE (AT SHELL)
N3	DN150	SORF TYPE	ASME B16.5, 150#	ø305 mm	1	DRAIN PIPE (AT SHELL)
N4	600 x 600	FF	---	900X900	1	MAN HOLE (ON ROOF)
N5	DN150	SORF TYPE	ASME B16.5, 150#	ø305 mm	1	MILL CIRCUIT TANK LEVEL TRANSMITTER-A (ON ROOF)
N6	DN150	SORF TYPE	ASME B16.5, 150#	ø102 mm	1	DRAIN PIPE FLUSH COVER WITH BLIND FLANGE (AT SHELL)
N7	DN150	SORF TYPE	ASME B16.5, 150#	ø305 mm	1	MILL CIRCUIT TANK LEVEL TRANSMITTER -B (ON ROOF)
N8	DN150	SORF TYPE	ASME B16.5, 150#	ø305 mm	1	DILUTION WATER (ON ROOF)
N9	DN200	SORF TYPE	ASME B16.5, 150#	ø356 mm	1	OVER FLOW (AT SHELL)
N10	DN100	SORF TYPE	ASME B16.5, 150#	ø203 mm	1	NOZZLE FOR AIR VENT (ON ROOF)
N11	DN100	SORF TYPE	ASME B16.5, 150#	ø203 mm	1	SLURRY NOZZLE FOR LINE AREA SUMP (ON ROOF)
N12	450x450 mm	-	---	-	1	CUTOUT FOR AGITATOR (ON ROOF)
N13	ø630	-	---	-	1	INLET SLURRY NOZZLE (ON ROOF)
N14	DN250	SORF TYPE	ASME B16.5, 150#	ø407 mm	1	HY.CYCLONE TO TANK SLURRY NOZZLE (ON ROOF)

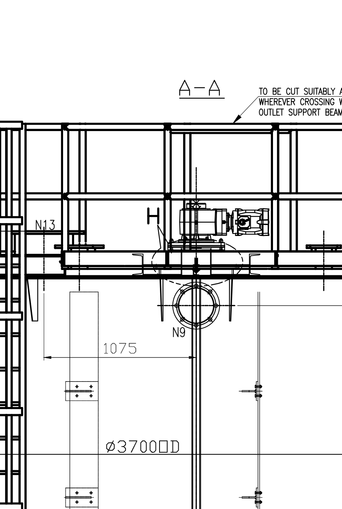
NOTES:
1. ALL DIMENSION ARE IN MM.
2. ALL INTERNAL SURFACES OF LIME SLURRY TANK IS LINED WITH 6MM THK. REPLACEABLE CHLOROBUTYL /BROMOBUTYL RUBBER.
3. ALL FLANGES FACES ARE LINED WITH 6MM THK CHLOROBUTYL /BROMOBUTYL RUBBER.
4. Painting–

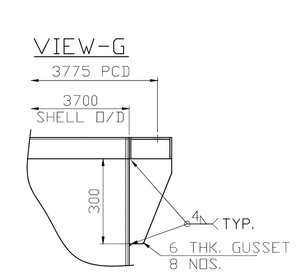
Surface preparation at shop	Primer at shop	Intermediate	Final	Total DFT (In micrometer)	Paint shade
SA 2 1/2	Epoxy resin based zinc phosphate primer nominal 100 micron @ shop	Epoxy resin based paint pigmented with titanium dioxide or mi10 > 100 micron @ shop	Polyamide cured colour pigmented epoxy based paint 75 micron and polyurethane based colour pigmented paint DFT–25 micron(min)	300	RAL–9002, Gray for external body

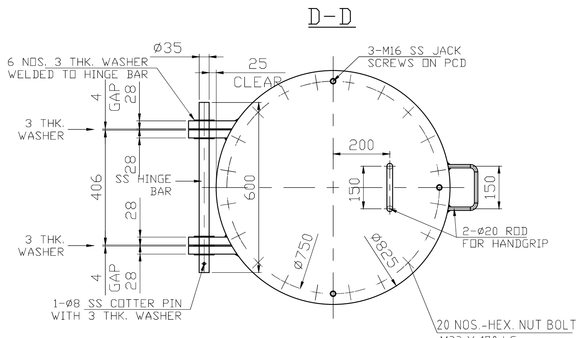
5. F.F.L. IN THIS AREA CORRESPONDS TO IS EL(+)7.5 M WHICH IS RL. 159.5M.
6. THE SHOWN ARRANGEMENT AS PER DRAWING ARE SAME FOR TANK–A & TANK–B.

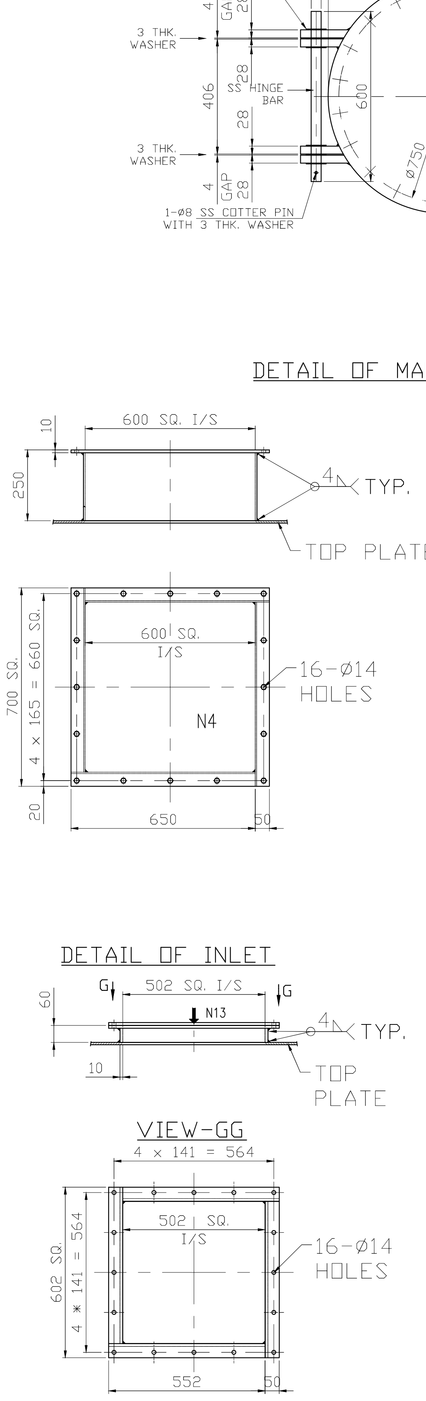


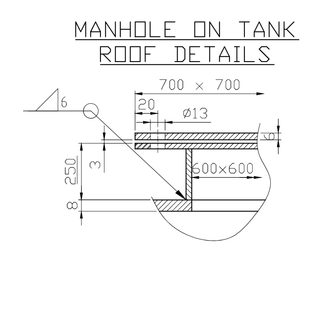


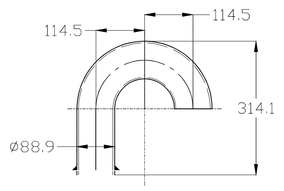


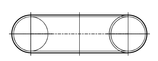












⚠ VENT PIPE

REV.	DATE	DESCRIPTION	DSGN	PPD	CHD	APPD
01	02.09.2022	REVISED AS PER NTPC COMMENTS	UDAY	PVS	AMAN	KHRK
00	06.07.2022	ISSUED FOR APPROVAL	UDAY	PVS	AMAN	KHRK

NTPC DRG NO: 3130-109-PVM-B-204

3 X 200MW (Stage-I)+3X500 MW (Stage-II)
NTPC RAMAGUNDAM FGD SYSTEM PACKAGE

BHARAT HEAVY ELECTRICALS LIMITED, UNIT: HEAVY POWER EQUIPMENT PLANT, RAMACHANDRAPURAM, HYDERABAD-500032

DEPT CODE		NAME	SIGN	DATE
M	DRN	UDAY		06.07.2022
	CHD	PVS		06.07.2022
	APPD	AMAN		06.07.2022

TITLE: GENERAL ARRANGEMENT OF MILL CIRCUIT TANK

DRAWING NO. HY-RDM-MCT-GA | SCALE : NTS | SHEET 1 OF 1 | REV 01

Size A0

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