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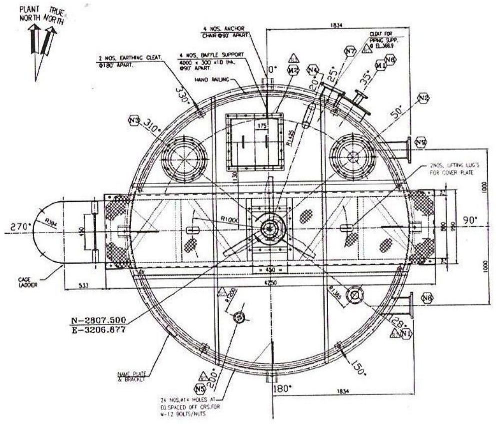
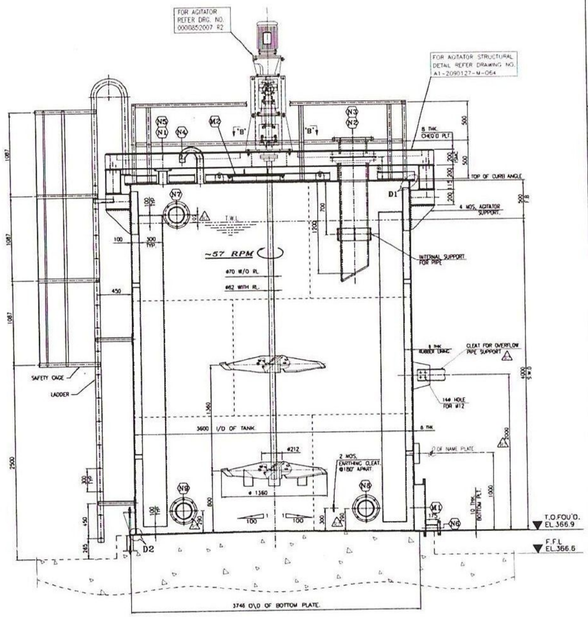
AS PER MEDIUM IS:2102.



ORIENTATION PLAN

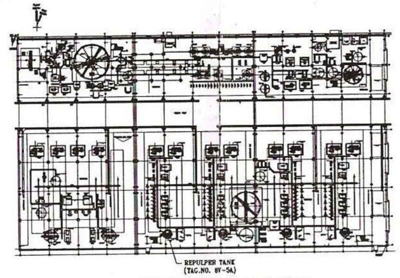


SECTIONAL ELEVATION

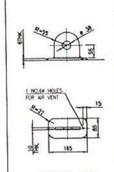
GENERAL NOTE'S

1) ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE NOTED.
2) ALL BOLT HOLES OF NOZZLES & MANHOLE SHALL STRADDLE TO THE MAIN CENTER LINES.
3) ALL GAS CUT EDGES SHALL BE GROUND OFF TO A DEPTH OF 3MM.
4) ALL FLANGES DRILLING ARE AS PER ANSI B16.5 UNLESS OTHERWISE SPECIFIED.
5) ALL FABRICATED NOZZLE NECKS SHALL BE FULLY RADIOGRAPHED.
6) ALL JOINTS SHALL BE PREPARED AND WELDED CONFORMING TO IS: 803
7) FIRST SHELL COURSE PLATES SHALL BE SO ARRANGED THAT THE VERTICAL JOINTS CLEAR THE BASE PLATE JOINTS BY 300mm. (Minimum)
8) ROOF IS PROTECTED BY REMOVABLE HANDRAIL ALL ROUND TO ENSURE MAINTENANCE ACCESS AND
9) REINFORCEMENT PAD SHALL BE FABRICATED IN SINGLE PIECE.
10) ALL T/T HOLES SHALL BE PNEUMATICALLY TESTED AT 0.5Kg./CM^2(g) & CHECKED WITH SOAP SOLUTION.
11) CHIPPING OF TANK PAD TO BE DONE TO SUIT THE PROJECTION OF DRAIN OUT NOZZLE.
12) ALL WELDS (EXCEPT FILLET) SHALL BE CHIPPED BACK TO SOUND METAL & REWELDED FROM SECOND SIDE. WHEREVER BACKCHPPING IS NOT POSSIBLE ROOT RUN SHALL BE DONE BY GTAW PROCESS WITH INERT GAS PURGING.
13) EQUIPMENT TO BE HYDROTESTED BEFORE RUBBER LINING.
14) FINAL INSPECTION OF THE VESSEL SHALL BE CARRIED OUT BEFORE RUBBER LINING BY RUBBER LINING CONTRACTOR.
15) ALL WELD TO BE GROUND SMOOTH/FLUSH & RADIUSED.
16) ATTACHEMENT WELD OF NOZZLE NECK, MANHOLE NECK & ANY PERMANANT ATTACHMENT WITH SHELL / TOP COVER SHALL BE MP/DP TESTED.
17) RUBBER LININGOF TANKS SHALL BE DONE GENERALLY AS PER IS:4682 PART-1 SAME SHALL BE TAKEN UP ONLY AFTER ALL INTERNAL/EXTERNAL ATTACHMENTS ARE FULLY WELDED. ALL SHARP CORNERS/WELD PROJECTIONS ARE SMOOTHENED OUT .
18) PAINTING SHALL BE AS PER UCIL/DCPL STANDARD PAINTING SPECIFICATION. (A4-2090127-SP-M-005)
19) PAINTING & SURFACE PREPARETION

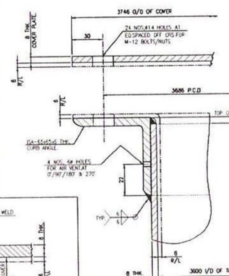
NO.	PARTS	SURFACE PREPARETION	PRIMER	INTERMEDIATE COAT	FINISH COAT	TOTAL
1)	ALL EXTERNAL C.S. PARTS	SHOT BLASTING TO SA 2 1/2	2 COATS OF EPOXY RESIN BASED ZINC RICH PRIMER, ANDOVERCOAT OF EPOXY PAINT WITH 25 MICRONS DFT PER COAT.	2 COATS OF EPOXY GLOSSY ENAMEL PAINT WITH 50 MICRONS DFT PER COAT.	ALIPHATIC POLYURETHANE FINISH COAT OF 35 MICRONS DFT PER COAT	DFT 185 MICRONS (min)
2)	RUBBER LINING SPECFICATIONS					
1)	ALL INTERNAL C.S. PARTS	6 THK NATURAL RUBBER LINING AS PER IS 4682 PART1				



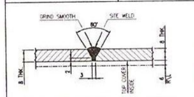
PLAN AT GROUND FLOOR EL.366.6M.
(CHEMICAL HOUSE)
(KEYPLAN)



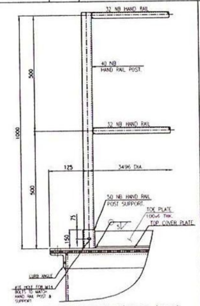
LIFTING LUG. (FOR TOP COVER)



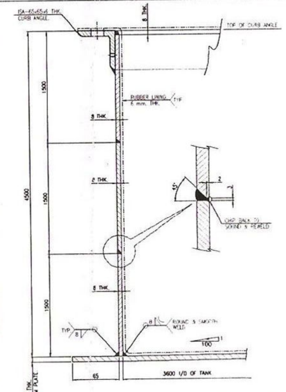
DETAIL : 'D1'



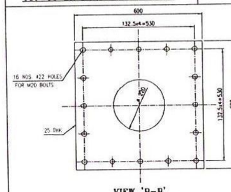
TOP COVER PLATE WELD DETAIL



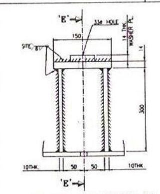
HAND RAILING DETAIL (TYP)



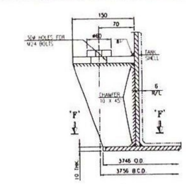
SHELL GIRTH & BOTTOM PLATE WELD DETAIL



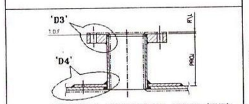
VIEW 'B-B'
AGITATOR MOUNTING PLATE



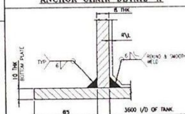
ANCHOR CHAIR DETAIL 'A'



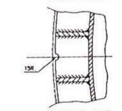
SECTION-E-E



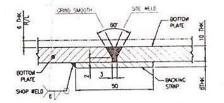
TOP COVER NOZZLE WELD DETAIL (TYP)



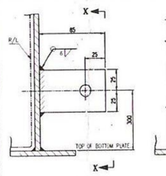
DETAIL : 'D2'



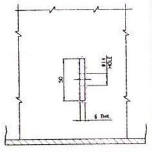
SECTION-F-F



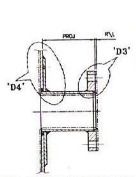
TYP. BOTTOM PLATE WELD DETAIL



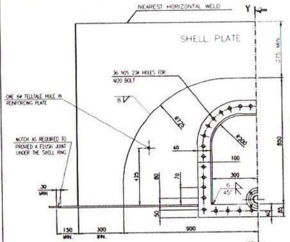
DETAIL OF EARTHING CLEAT QTY. : 2 NOS.



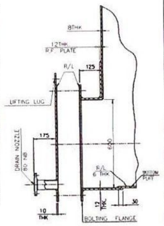
VIEW : 'X-X'



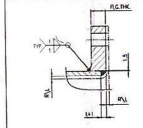
SHELL NOZZLE WELD DETAIL (TYP)



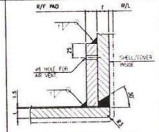
CLEAN OUT NOZZLE DETAIL



SECTION-YY



TYP.WELD DETAIL : 'D3'



TYP.WELD DETAIL : 'D4'

DESIGN DATA

DESIGN CODE	IS : 803-1976 (REAFFIRMED-2001) IS : 875-1987 (REAFFIRMED-1997) IS : 1893-1984 (REAFFIRMED-1998) API 650 10th EDITION NOV - 1998
SERVICE	WASHED LEACH FILTER CAKE SLURRY.
LIQUID HANDLED	RE-PULPER SLURRY
LIQUID DENSITY KG/M^3	1270
OPERATING TEMPERATURE (°C)	AMB
DESIGN TEMPERATURE (°C)	65°C
OPERATING PRESSURE KG/CM^2	ATM
DESIGN PRESSURE KG/CM^2(g)	FULL OF WATER + ATM
CORROSION ALLOWANCE (BOTTOM/SHELL)	1.5 mm
CORROSION ALLOWANCE (TOP COVER)	1.5 mm
C.S. RUBBERLINING SHELL/TOP COVER/BOTTOM	NATURAL RUBBER 6mm. THK. HARD-45 ± 5 SHORE A
RADIOGRAPHY	SPOT
INSULATION	NO
SPECIFIC GRAVITY OF LIQUID	1.27
CAPACITY (m^3) MAXIUM/WORKING	45.8/40.7
WIND PRESSURE	IS 875 PART : 3
QTY. REQUIRED	1 NO.
EMPTY WEIGHT	7910.0 Kgs.(INCLUDING AGITATOR WEIGHT)
OPERATING WEIGHT	59650.0 Kgs.
TEST WEIGHT (FULL OF WATER)	53710.0 Kgs.
SEISMIC FORCE	3990.0 Kgs.
SEISMIC MOMENT	8285.0 Kg.-m

DWG. NO. :-A1-2090127-G-045

MATERIAL OF CONSTRUCTION

SHELL PLATE & TOP COVER PLATE	IS 2062 GR. A (8 THK.) + 6 THK R/L
BOTTOM PLATE	IS 2062 GR. A (10 THK.) + 6 THK R/L
MANHOLE NECK	IS 2062 GR. A
MANHOLE FLANGES	IS 2062 GR. A
NOZZLE FLG. & BLIND FLG. < 200 NB	SA 105
NOZZLE FLANGE WITH BLIND COVER ABOVE 200 NB	IS 2062 GR. A
NOZZLE PIPES < 150 NB	IS 1239 (HVY)
NOZZLE PIPES > 150 NB	IS 3589
R.F.PADS, GUSSETS, NOZZLES STIFFENERS	IS 2062 GR. A
BOLTS & NUTS (NOZZLES)	IS 1367 CL. 8.8/8
CURB ANGLE, TOP STIFFENERS	IS 2062 GR. A
EXTERNAL (GUSSETS)	IS 2062 GR. A
NAME PLATE/BRACKET	SS 304 /IS 2062 GR A
EARTHING CONNECTION	IS 2062 GR. A
LADDER / HANDRAIL	IS 2062 GR A/IS 1239 (CLASS MEDIUM)-GALVANIZED
INTERNAL BOLTING	SS 316 L

TOP COVER NOZZLE SCHEDULE

MARK	NOZZLE SIZE (NB)	NOZZLE SCH./THK.	QTY.	FLANGE TO ANSI B16.5 RATING	TYPE	FACE	SERVICE TREATED WATER	PROJ.	REMARKS
N1	100	CL.HEAVY	1	150 #	S.O	F.F	INLET FROM TAILING THICKNER	150	-
N2	400/350	6 THK.	1	150 #	S.O	F.F	SLURRY INLET FROM 6V-15A	200	-
N3	400/350	6 THK.	1	150 #	S.O	F.F	SLURRY INLET FROM 6V-15B	200	-
N4	80	CL.HEAVY	1	150 #	S.O	F.F	VENT	150	GOOSE NECK WITH WIRE MESH
N5	80	CL.HEAVY	1	150 #	S.O	F.F	LEVEL TRANSMITTER	150	RADAR TYPE
M2	600 SQ	6 THK.	1				INSPECTION DOOR	65	

SHELL NOZZLE SCHEDULE

MARK	NOZZLE SIZE (NB)	NOZZLE SCH./THK.	QTY.	FLANGE TO ANSI B16.5 RATING	TYPE	FACE	SERVICE	PROJ.	REMARKS
N6	80	CL.HEAVY	1	150 #	S.O	F.F	DRAIN	175	REF. NOTE. 11
N7	200	6 THK.	1	150 #	S.O	F.F	OVERFLOW	200	-
N8	200	6 THK.	1	150 #	S.O	F.F	PUMP SUCTION	AS SHOWN IN THE DRAWING	-
N9	200	6 THK.	1	150 #	S.O	F.F	PUMP SUCTION		-
M1	600X600	10 THK	1	-	S.O	F.F	FLUSH TYPE CLEAN-OUT NOZZLE	125	AS PER IS 803

LIST OF DRAWINGS / DOCUMENTS

1)	DESIGN CALCULATION FOR REPULPER TANK	A4-2090127-DC-M-068
2)	G.A DRG OF REPULPER TANK AGITATOR	0000852007 R2
3)	AGITATOR SUPPORT DETAILS FOR REPULPER TANK	A2-2090127-M-064-R0
4)	TYP M.S WITH RUBBER LINED NOZZLE WELD DETAIL	A1-2090127-M-229-R1-SHT2OF3
5)	TANK NOZZLE ERECTION MARKING TABLE	A1-2090127-M-229-R1-SHT3OF3
6)	SHELL,ROOF & BOTTOM PLATE CUTTING LAYOUT	A1-2090127-M-061-R0

ABBREVIATION

T.W.L = TOP WATER LEVEL
T.O.F = TOP OF FLANGE
F.F.L = FINISHED FLOOR LEVEL
F.B = FREEBOARD
S.W.D = SIDE WATER DEPTH
B.C.D = BOLT CIRCLE DIAMETER
T.O.FOU'D = TOP OF FOUNDATION
R/L = RUBBER LINING

FOR STAMPING

FOR INFORMATION ONLY
ORDER NO. BYC-2090127
DATE-08.03.2010
HINDUSTAN DORR-OLIVER LTD. MUMBAI

NO.	REVISIONS	BY	CHECKED	APPD.	DATE
R3	INSPECTION DOOR M2 ADDED.	U.P.S.	P.P.J.	B.A.S.	23.06.10
R2	REVISED DRAWING AS MARKED 'R2'.	M.A.B.	S.P.P	A.P.R.	08.03.10
R1	REVISED AS PER DCPL'S COMMENT DATED :-12.06.2009	S.D	S.P.P	A.P.R.	12.01.10

NO.	REVISIONS	BY	CHECKED	APPD.	DATE	DWG.NO	REFERENCE DRAWINGS

	DATE	BY	SIGN
DRAWN	21/04/09	P.R.A.	
CHECKED	21/04/09	A.P.R	
APPROVED	21/04/09	B.A.S	
SCALE :-	1:40	PROJECTION	
MADE FROM	-	DWG. SIZE A1	

CLIENT	URANIUM CORPORATION OF INDIA LTD. (A GOVERNMENT OF INDIA ENTERPRISE)
PROJECT	URANIUM ORE PROCESSING PLANT AT TUMMALAPALLE, A.P. PKG.NO. UCTL-2
CONSULTANT	DEVELOPMENT CONSULTANTS PVT. LTD.
EPC/TURNKEY CONTRACTOR	DORR-OLIVER HINDUSTAN DORR-OLIVER LTD. ENGINEERING DIVISION MUMBAI • CHENNAI • AHMEDABAD • BENGALURU — HDOL SO NO.
TITLE	G.A. & DETAIL FOR REPULPER TANK 3.6 M DIA X 4.5 M HT (TAG.NO. 6V-5A)
SCALE 1:40	HDOL DWG.NO. A1-2090127-G-045 — SHT.NO. 1 OF 4 — REV. 3
UCIL DWG.NO.	UCTL-02-DWG-M-LF-GA-008 — SHT.NO. 1 OF 4 — REVISION R-03

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PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT