



JOB NO.: 6907
CLIENT : BCPL

0	28.07.2010	ISSUED FOR ENGINEERING
A	08.02.2010	ISSUED FOR COMMENTS
REV.	DATE	REVISION

A.ROY	BVK/PB	AKG	
A.ROY	BVK/PB	AKG	
BY	CHK	APPROVED	APPROVED

STORAGE TANK
AMINE STORAGE
TANK
ITEM NO. 051-TT-101

स्टोरज टैंक
एमाइन स्टोरेज टैंक
आइटम नम्बर 051-टीटी-101

DRAWING NO.
6907-051-16-46-3034

SHEET 1 OF 2

REV.



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|-------|--|-----|---|
| △/23. | TANK VENDOR SCOPE INCLUDES SIZING (AS PER API2000) & SUPPLY OF THE EMERGENCY VENT (051-EV--1801) AS PER DATA SHEET NO. 6907-051-02-DS--2818, REV.0 CALCULATION TO BE SUBMITTED FOR EIL REVIEW. | 7. | NOZZLE ≤50NB SHALL BE STIFFENED BY 2NOS. 40X6 FLAT AT 90° APART. |
| △/24. | TANK VENDOR SCOPE INCLUDES THE SIZING & SUPPLY OF BREATHER VALVE. | 8. | PROJECTION OF NOZZLES/MANHOLE SHALL BE MEASURED FROM INTERSECTION OF NOZZLES/MANHOLE AXIS WITH OUTER SURFACE OF SHELL/ROOF UPTO FLANGE CONTACT FACE. |
| △/25. | FILL WATER UPTO COMPRESSION RING AT TIME OF HYDROTEST 10. | 9. | FOR M1 & M2 FLANGE GASKET FACE SHALL HAVE SERRATED FINISH WITH CONCENTRIC GROOVES. ALL OTHER NOZZLES SHALL HAVE 125 RMS FINISH. ROOF STRUCTURE SHALL BE PROVIDED WITH 1:5 SLOPE AS PER EIL STD. 7-68-0663 |
| △/26. | BOTTOM PLATE TO BOTTOM SHELL COURSE JOINT SHALL BE GROOVE AND FILLET TYPE TO ENSURE FPW. | 11. | DRAINAGE SLOTS SHALL BE PROVIDED IN THE FOUNDATION FOR DETECTION OF ANY LEAKAGE FROM BOTTOM. |

NOTES CONTD.: -

7. NOZZLE $\leq$ 50NB SHALL BE STIFFENED BY 2NOS. 40x6 FLAT AT 90° APART.
8. PROJECTION OF NOZZLES/MANHOLES SHALL BE MEASURED FROM INTERSECTION OF NOZZLES/MANHOLES AXIS WITH OUTER SURFACE OF SHELL/ROOF UPTO FLANGE CONTACT FACE.
9. FOR M1 & M2 FLANGE GASKET FACE SHALL HAVE SERRATED FINISH WITH CONCENTRIC GROOVES. ALL OTHER NOZZLES SHALL HAVE 125 RMS FINISH.
10. ROOF STRUCTURE SHALL BE PROVIDED WITH 1:5 SLOPE AS PER EIL STD. 7-68-0063
11. DRAINAGE SLOTS SHALL BE PROVIDED IN THE FOUNDATION FOR DETECTION OF ANY LEAKAGE FROM BOTTOM.
12. NOZZLES FLANGE DIMENSION SHALL BE AS PER ASME B16.5 EXCEPT MANHOLE FLANGES.
13. THE TANK SHALL BE STRESS RELIEVED ELSEWHERE AND SHALL BE ERRECTED ON FOUNDATION AFTER PWHT. HYDROTEST SHALL BE PERFORMED ON FOUNDATION AFTER ERECTION.
14. MAXIMUM PERMITTED HARDNESS AFTER PWHT SHALL BE 200 BHN.
15. ALL SURFACE CLEANING SHALL BE DONE BY SHOT BLASTING ONLY SURFACE PREPARATION AND APPLICATION OF PRIMER & PAINT SHALL BE AS PER SPEC. 6907-0642-PT-107 NO INTERNAL PAINTING IS REQUIRED.
16. FABRICATED MANHOLE/NOZZLE NECK SHALL BE 100% RADIOGRAPHED.
17. STRAPPING NOT REQUIRED PER API 2550 ON THIS TANK. TANK MAY BE CALIBRATED FROM FABRICATION DRG.
18. COUNTER BALANCING wt. OF 68 MT TO BE PROVIDED TO PREVENT UPLIFT.
19. MOC FOR SHELL SHALL MEET THE REQUIREMENTS OF CL. 6.2.3 OF API 650.
20. THE LOCATION OF THE LEVEL NOZZLES (SERVO/RADAR) SHALL CLEAR INTERNAL PIPES IN THE TANK AND SHALL NOT BE LOCATED IN OVERFLOW REGION.
21. LEVEL INDICATOR RADAR TYPE TO BE PROVIDED WITH DIP PIPE (REFER EIL STD. 7-13-0022 FOR GUIDANCE)
22. PROVIDE SETTLEMENT MARKERS AS PER CL.6.4 OF 6-13-0053

ROOF APPURTENANCES (REFER NOTE: 8,12)

SHELL APPURTENANCES (REFER NOTE: 8,12)

FOUNDATION LOADING :-

APPROX. EMPTY WEIGHT =	8000	KGS
APPROX. WEIGHT FULL OF WATER =	68300	KGS
APPROX. WEIGHT FULL OF LIQUID =	68700	KGS

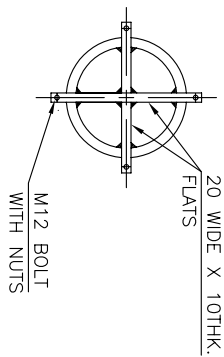
NOTES :-

1. UNLESS OTHERWISE STATED ALL DIMENSIONS ARE IN mm.
2. BOLT HOLES SHALL STRADDLE CENTRE LINES.
3. ACCESSORIES SUPPLIED BY OTHERS SHALL BE INSTALLED BY TANK FABRICATOR.
4. WHEREVER REQUIRED TANK FABRICATOR SHALL PROVIDE BLIND FLANGE WITH GASKET AND BOLTING.
5. REINFORCEMENT SHALL BE AS PER CODE.
6. NOZZLE NECK 250NB & ABOVE SHALL BE FABRICATED FROM PLATE.

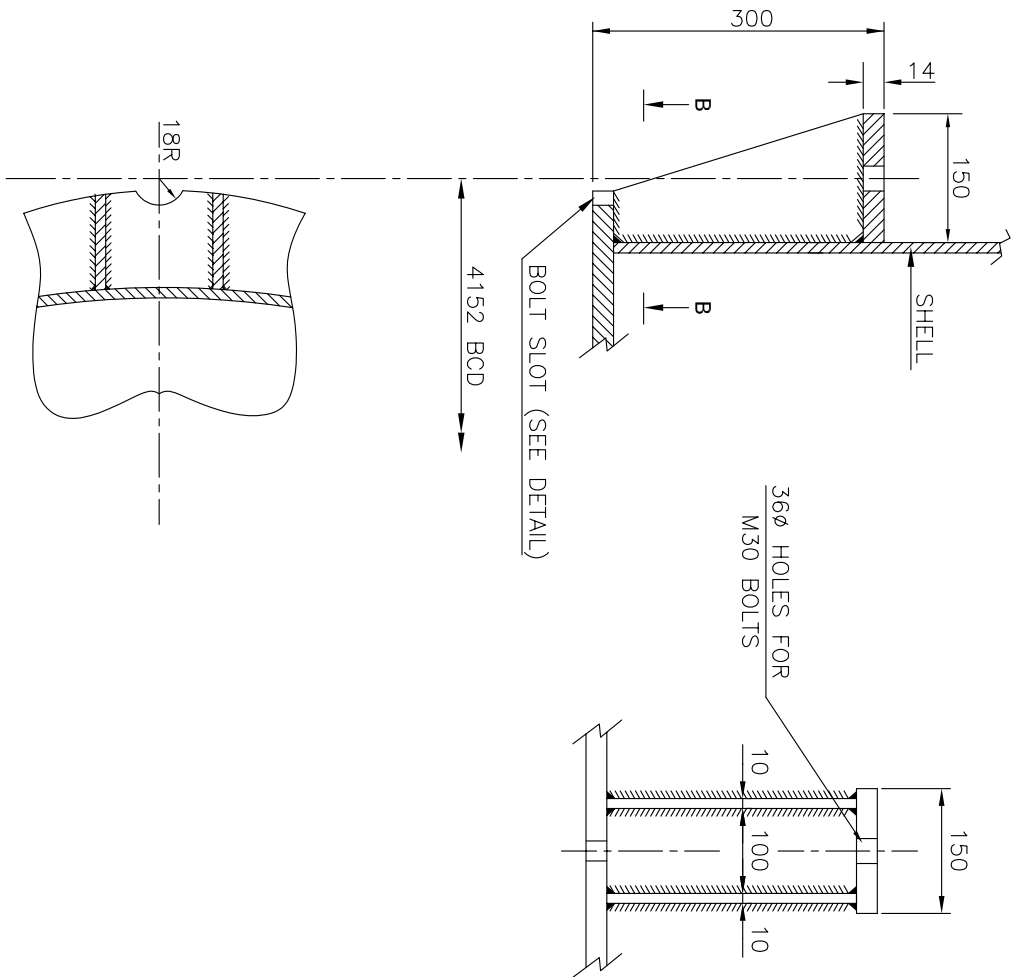
 DENOTES APPLICABILITY

NOTES CONTD.:-

27. d) TANK SHALL BE STRESS RELIEVED ELSEWHERE AND SHALL BE INSTALLED OVER FOUNDATION AFTER STRESS RELIEVING. SUITABLE B.C.D. & SLOTTED HOLES TO BE PROVIDED OVER THE PLATES FOR ANCHOR BOLTS TO ACCOMMODATE THERMAL EXPANSION BECAUSE OF PWHT. STRESS RELIEVING PROCEDURE SHALL BE FURNISHED BY VENDOR. ALSO ADEQUACY CHECK FOR THE TANK SUPPORT STRUCTURE FOR STABILITY DURING HEAT TREATMENT SHALL BE FURNISHED FOR REVIEW & APPROVAL.
- b) AGENCY TO BE EMPLOYED FOR STRESS RELIEVING THE TANK SHALL HAVE A PROVEN TRACK RECORD. SUPPORTING DOCUMENTS SHALL BE FURNISHED BY FABRICATOR ALONG WITH THE OFFER.
- c) NECESSARY STIFFENING & SUITABLE LIFTING ARRANGEMENT FOR THE TANK SHALL BE PROVIDED TO SHIFT THE TANK ON FOUNDATION AFTER PWHT.
- d) HYDROTEST SHALL PERFORMED ON FOUNDATION.
28. IN CASE IT IS NOT POSSIBLE TO POST WELD HEAT TREAT THE TANK ELSEWHERE AND ERECT ON FOUNDATION, THEN PWHT MAY BE CARRIED OUT ON FOUNDATION AFTER NECESSARY CARE IS TAKEN TO ISOLATE THE FOUNDATION. ANCHOR BOLT HEIGHT SHALL BE PROPERLY CALCULATED BASED ON FIREBRICK ISOLATION PROVIDED BETWEEN BOTTOM PLATE AND FOUNDATION. THE JOINT BETWEEN BOTTOM PLATE AND FIREBRICKS SHALL BE SEALED BY A SUITABLE MASTIC.
29. GRATING FOR PLATFORM SHALL BE HOT DIP GALVANIZED
30. ROOF STRUCTURE SHALL CLEAR ALL ROOF NOZZLES.
31. IN CASE OF IN-SITU PWHT ON FOUNDATION, THE FOLLOWING INSULATION SHALL BE PROVIDED BY THE TANK CONTRACTOR. 3 LAYERS OF 75mm (3x75mm) FIREBRICK, TYPE-1 OF EIL STD. SPEC. 6-79-0003 TO BE LAID WITH AIR-SETTING MORTAR +40mm FIRECRETE (SPECIAL) CASTABLE OF M/S ACE CALDERYS MAKE OR EQUIVALENT ON THE TOP IN CONTACT WITH BOTTOM PLATE.

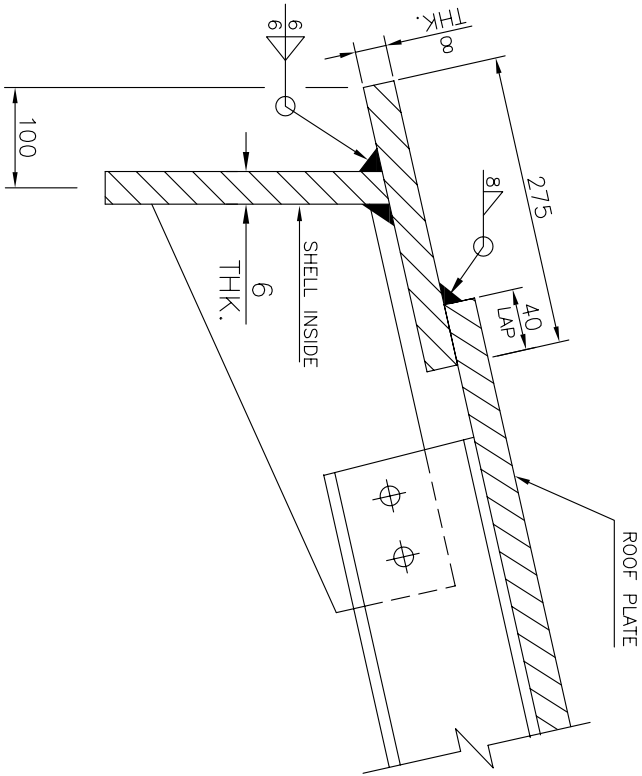
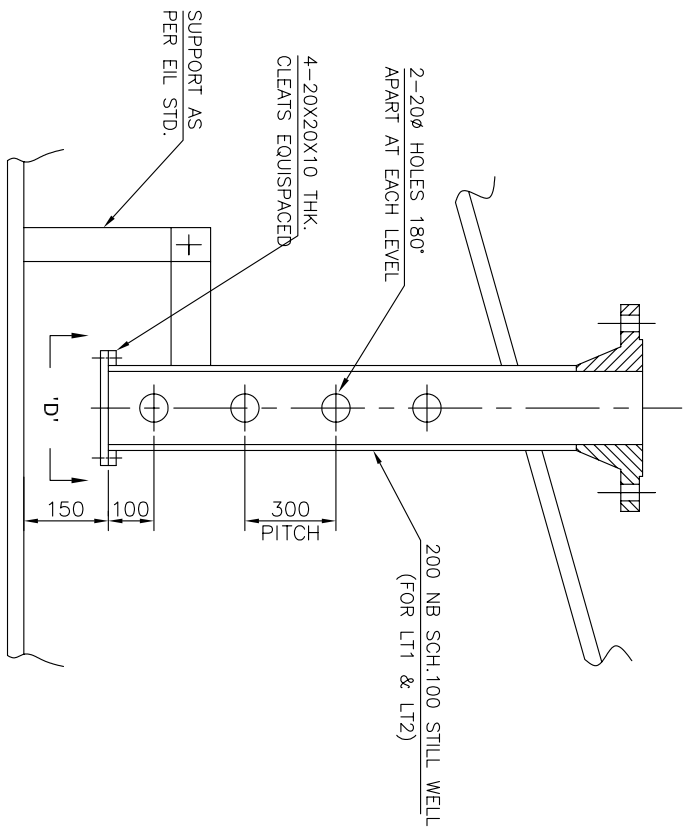


VIEW-‘D’



SECTION-BB

ANCHOR CHAIR DETAIL



DETAILS OF ‘D1’

DETAIL OF THE NOZZLE LT1<2

(FOR OTHER DETAILS REFER AS PER ILL
STD. 7-13-0022)

