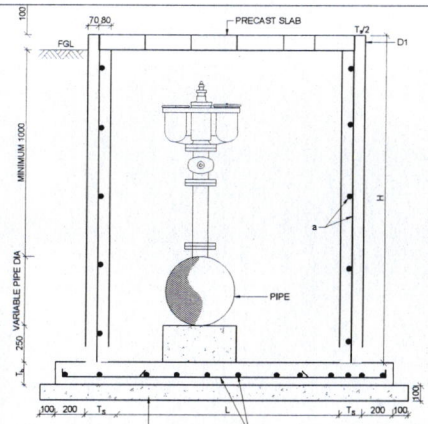
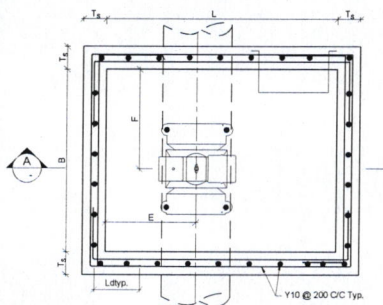


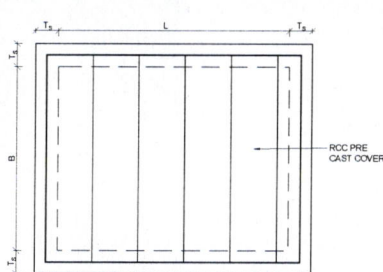
# ANNEXURE - IV



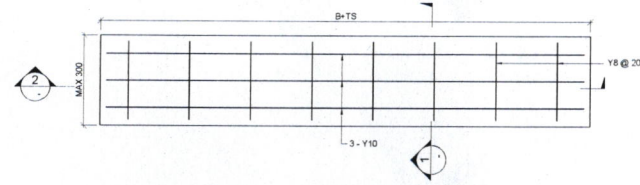
**SECTION - AA**  
SCALE - 1:16



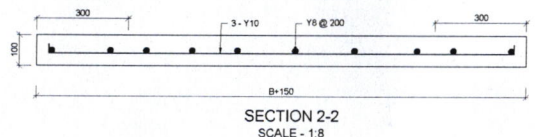
**PLAN OF AIR VALVE CHAMBER**  
SCALE - 1:16



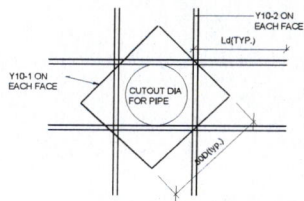
**TOP SLAB LEVEL PLAN OF AIR VALVE CHAMBER**  
SCALE - 1:16



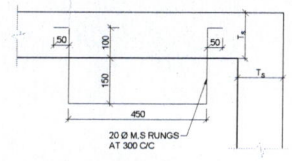
**TYPICAL RCC PRE CAST COVER (PLAN)**  
SCALE - 1:8



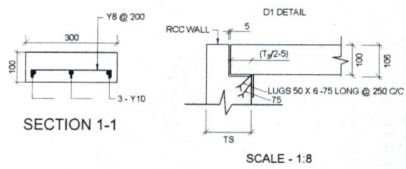
**SECTION 2-2**  
SCALE - 1:8



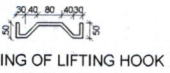
**CUTOUT DETAIL FOR PIPE**  
SCALE - 1:8



**TYPICAL DETAIL OF RUNGS**  
SCALE - 1:8



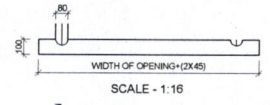
**SECTION 1-1**



**DETAILING OF LIFTING HOOK**  
SCALE - 1:8



**SECTION 3-3**  
SCALE - 1:8



**SECTION - TYPICAL DETAIL OF PRECAST SLAB**  
SCALE - 1:16

**DETAILS OF AIR VALVE CHAMBER**

PIPE DIA Ø	CUTOUT DIA FOR PIPE	AIR VALVE DIA	L	B	H	E	F	G	THICKNESS OF SIDE WALL (Ts)	THICKNESS OF BASE SLAB (Tb)	REINFORCEMENT IN SIDE WALL (a)	REINFORCEMENT IN BASE SLAB (b)
150	170	80	1100	900	1500	375	450	250	150	150	Y10 @200 C/C	Y10 @200 C/C
200	222	80	1100	900	1500	400	450	250	150	150	Y10 @200 C/C	Y10 @200 C/C
250	274	80	1200	900	1600	425	450	250	150	150	Y10 @200 C/C	Y10 @200 C/C
300	326	80	1200	900	1600	450	450	250	150	150	Y10 @200 C/C	Y10 @200 C/C
350	378	80	1300	900	1650	475	450	250	150	150	Y10 @120 C/C	Y10 @120 C/C
400	429	100	1300	900	1700	500	450	250	150	150	Y10 @120 C/C	Y10 @120 C/C
450	480	100	1400	900	1800	525	450	250	150	150	Y10 @120 C/C	Y10 @120 C/C
500	532	150	1400	900	1800	550	450	250	150	150	Y10 @120 C/C	Y10 @120 C/C
600	635	150	1600	900	1900	625	450	250	150	150	Y10 @120 C/C	Y10 @120 C/C
700	738	150	1700	1100	2000	700	600	250	200	200	Y10 @100 C/C	Y10 @100 C/C
800	842	150	1800	1100	2100	800	600	250	200	200	Y10 @100 C/C	Y10 @100 C/C
900	945	150	1900	1100	2200	850	650	250	200	200	Y10 @100 C/C	Y10 @100 C/C
1000	1048	200	2000	1200	2300	850	650	250	200	200	Y10 @100 C/C	Y10 @100 C/C
1100	1210	200	2100	1200	2500	950	650	250	200	200	Y10 @100 C/C	Y10 @100 C/C

- NOTES:**
- ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METERS, UNLESS OTHERWISE SPECIFIED.
  - USE VIBRATED REINFORCED CONCRETE OF MIX M25 CONFORMING TO IS 456:2000.
  - USE HY80 BARS OF Fe-415 AS PER IS 1786:1985.
  - ALL DIMENSIONS SHALL BE VERIFIED BY THE ENGINEER IN CHARGE BEFORE LAYING CONCRETE WITH RESPECT TO ARCHITECTURAL DRAWINGS.
  - THE PROVISIONS MADE IN IS 456:2000 AND OTHER RELEVANT CODES SHOULD BE STRICTLY ADHERED DURING EXECUTION.
  - MIN. LAP LENGTHS RECOMMENDED FOR REINFORCEMENT.
- | BAR DIA | Development Length (Ld) (40.3 Ø) |
|---------|----------------------------------|
| Y8      | 330                              |
| Y10     | 410                              |
| Y12     | 490                              |
| Y16     | 650                              |
| Y20     | 810                              |
| Y25     | 1010                             |
- CLEAR COVER TO REINFORCEMENT:
 

BASE SLAB	50 MM
SIDE WALL	40 MM
  - REINFORCEMENT DETAILING:
    - LAPPING:
      - LAPPING SHOULD BE AVOIDED AT MIDDLE FOR BOTTOM REINFORCEMENT AND AT SUPPORT FOR TOP REINFORCEMENT.
      - LAPS SHOULD BE STAGGERED. NO TWO ADJACENT BARS SHOULD HAVE
    - BEAMS:
      - EXTRA BARS AT TOP - TO EXTEND UP TO 0.25L FROM FACE OF SUPPORT (WHERE 'L' IS CORRESPONDING C/C OF SPAN)
      - EXTRA BARS AT BOTTOM - TO BE CURTAILED AT 0.1L FOR DISCONTINUOUS SPAN AND 0.15L FOR CONTINUOUS SPAN FROM CENTRE OF SUPPORT
    - SLABS:
      - EXTRA BARS AT TOP - TO EXTEND UP TO 0.30L FROM FACE OF SUPPORT.
      - CRANKED BARS SHALL BE CURTAILED AT 0.25L FROM CENTRE OF SUPPORT FOR CONTINUOUS EDGE AND 0.15L FOR DISCONTINUOUS EDGE.
  - ANY DISCREPANCY FROM THE DRAWING SHALL BE BROUGHT TO THE NOTICE.

  
**CHIEF ENGINEER (South)**  
**APIIC LTD., VIJAYAWADA**

Rev	Description	By	Verified	Date	Scales	Consultants	Client	Drawn	Project	
								ANUSHA	PREPARATION OF DETAILED PROJECT REPORTS FOR PROVIDING WATER SUPPLY TO PRIORITIZED INDUSTRIAL CLUSTERS IN THE STATE OF ANDHRA PRADESH	
								Checked: MADHAV	Drawing Title: GENERAL ARRANGEMENT DRAWING OF AIR VALVE CHAMBER	
								Designed: MADHAV		
								Approved: KSSVV PRASAD		
								Date: 05.09.2018		
R0	ISSUED FOR TENDER	SAS	KSP	05.09.2018	AS SHOWN	aaarvee associates architects engineers & consultants pvt. ltd.	Andhra Pradesh Industrial Infrastructure Corporation (APIIC)		Drawing No: AA-1903-DPR-APIIC-WS-ST-AVC-001	Rev: R0