

CORRIGENDUM FOR NEW 10000 MT DOUBLE WALL DOUBLE INTEGRITY AMMONIA STORAGE TANK AND ASSOCIATED FACILITIES FOR FACT-CD, AMBALAMEDU ON LSTK BASIS

A. M&PCE

1. Document No. 32645–01–PS–001 PH2, Clause No. 2.7.

“ Hoses and accessories should be kept in hose cabinet painted fire red and constructed preferably of wood with glass front. Wall boxes constructed of cast iron or sheet iron should be painted at regular intervals to obviate rusting and consequent damage to hose.”

The above clause sentence is modified as

“ Hoses and accessories should be kept in hose cabinet painted fire red and constructed of cast iron or sheet iron with glass front. ”

2. Document No. 32645–02–PS–001 PH Clause No. 3.2.6

“Design of the Shell & Tube Heat Exchangers shall be as per TEMA – R only. “

The above clause sentence is modified as

“Generally the design of the Shell & Tube Heat Exchangers shall be as per TEMA Class R. TEMA Class C shell and tube heat exchangers are acceptable for Lube oil service.”

3. Firewater network and sleeper layout Cochin Division (Phase 1 & 2), Doc. No. 32536-01-FWN_SL-00001 R0 indicating tentative tie-in point is attached.

PROJECT 1ST STAGE CLOUDED IN GREEN

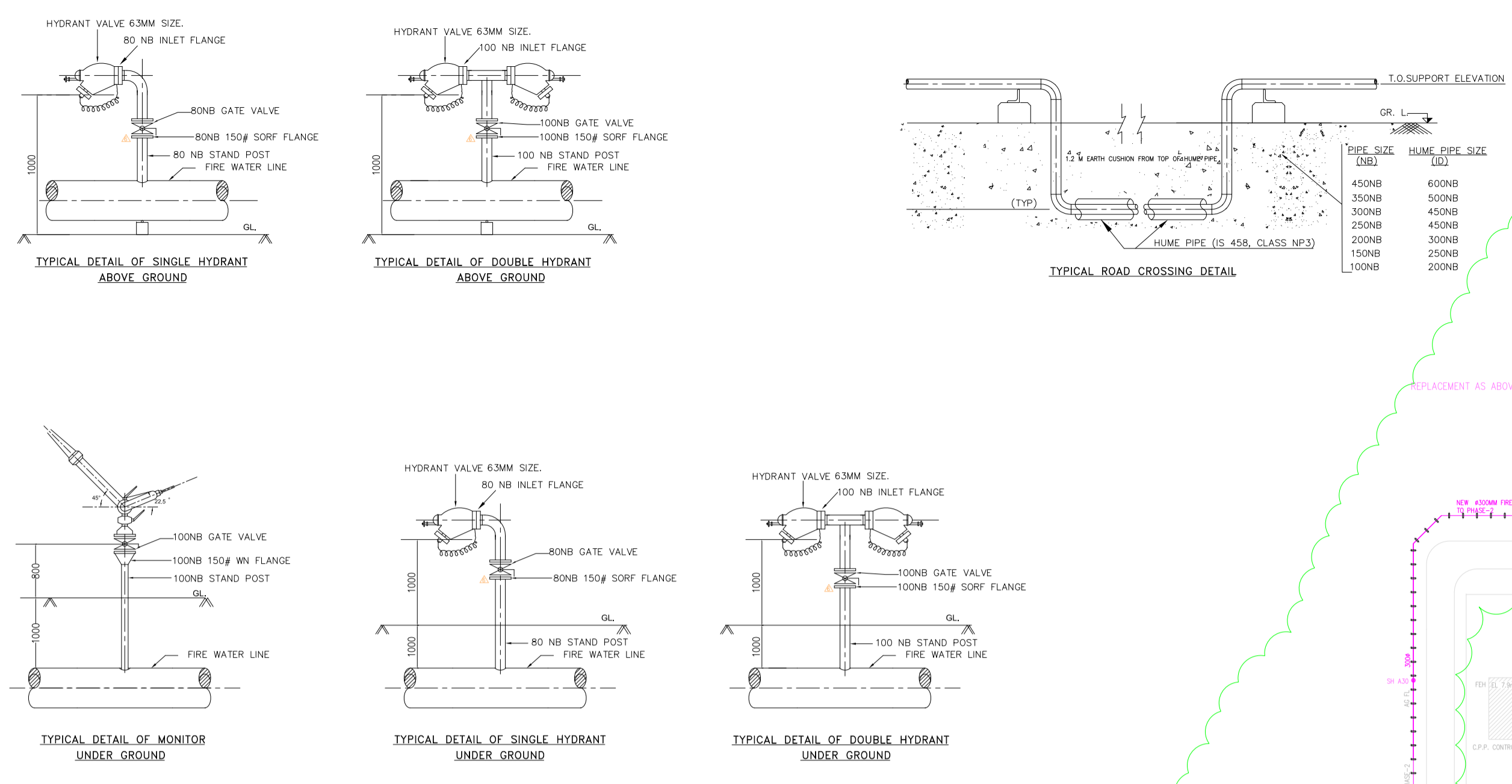


TABLE 1 (ELEVATION OF OHSH PHASE II)

AREA	FLOOR	ELEVATION	NO. OF HYDRANTS	DL/D OF RISER LINE
SULPHUR STORAGE	-	17050	3	150/100/100
ROCK GRINDING PLANT (SHORT RISER)	I	5000	1	80
ROCK GRINDING PLANT (LONG RISER)	II	7800	1	150
UREA BAGGING PLANT	I	17750	1	150
NPK BAGGING PLANT	IV	26550	1	150
NPK GRANULATION PLANT (S)	II	9500	2	150
NPK GRANULATION PLANT (N)	II	13500	2	100
PHOSPHORIC ACID PLANT (Near transformer room)	I	8800	1	100
PHOSPHORIC ACID PLANT (Near storage tank)	II	12700	1	80
TRANSFORMER CONTROL ROOM	I	5300	1	150
		11400	1	150
		14800	1	150
		6300	1	100
		9000	1	100

TABLE 2 (ORIFICE DETAILS)

TAG NOS	THROAT DIA. (mm)	Line size (NB)
OP 01	14 mm	50
OP 02	14 mm	50
OP 03	20 mm	50
OP 04	19 mm	50
OP 05	15 mm	50
OP 06	23 mm	50
OP 07	43 mm	100
OP 08	42 mm	100
OP 19	27 mm	80
OP 20	27 mm	80
OP 21	27 mm	80
OP 22	27 mm	80
OP 23	27 mm	80
OP 24	27 mm	80
OP 25	27 mm	80
OP 26	27 mm	80

TABLE 3 (FFS HYDRANT/ MONITOR DETAILS)

ZONE	SINGLE HYDRANT	DOUBLE HYDRANT	WATER MONITOR	HVLR	SURFACE HYDRANT	OVERHEAD HYDRANT
PHASE 2	70(70)	24(48)	7(28)	3(18)	3(3)	27(27)
PHASE 1	30(30)	7(14)	1(4)	1(6)	0	2(2)

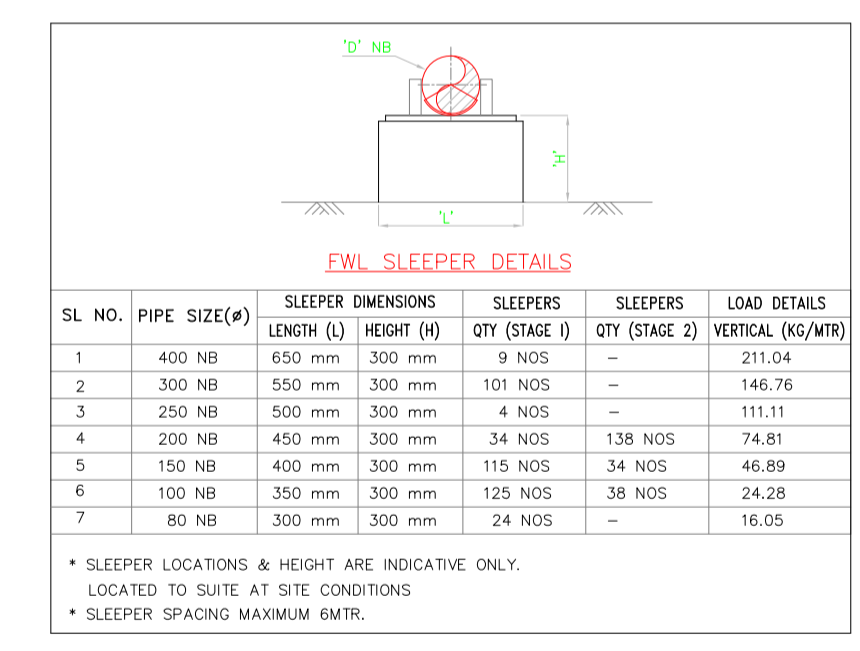
* HVLR, Hydrant/monitors for the proposed 10000 MT Ammonia Tank and Hydrant/monitors for the proposed 1650 tpd complex fertilizer plant are not included in Table 3 (Shall be included in LSTK contractor scope)

TABLE 4 (PUMP DETAILS)

PUMP	PURPOSE	HEAD (m)	QUANTITY (nos)	DRIVE	SPM	MAKE & MODEL
P1, P2, P3 (EXISTING)	2W+1S	88	410	1 Each Diesel Engine driven (255 HP)	1800	Beacon Wtr SDFC 150/200
P4 (EXISTING)	JOCKEY	90	10.2	1 Electric Motor driven (15 KW)	2930	Beacon Wtr IC 50/32/250

TABLE 5 (SPRINKLER DETAILS)

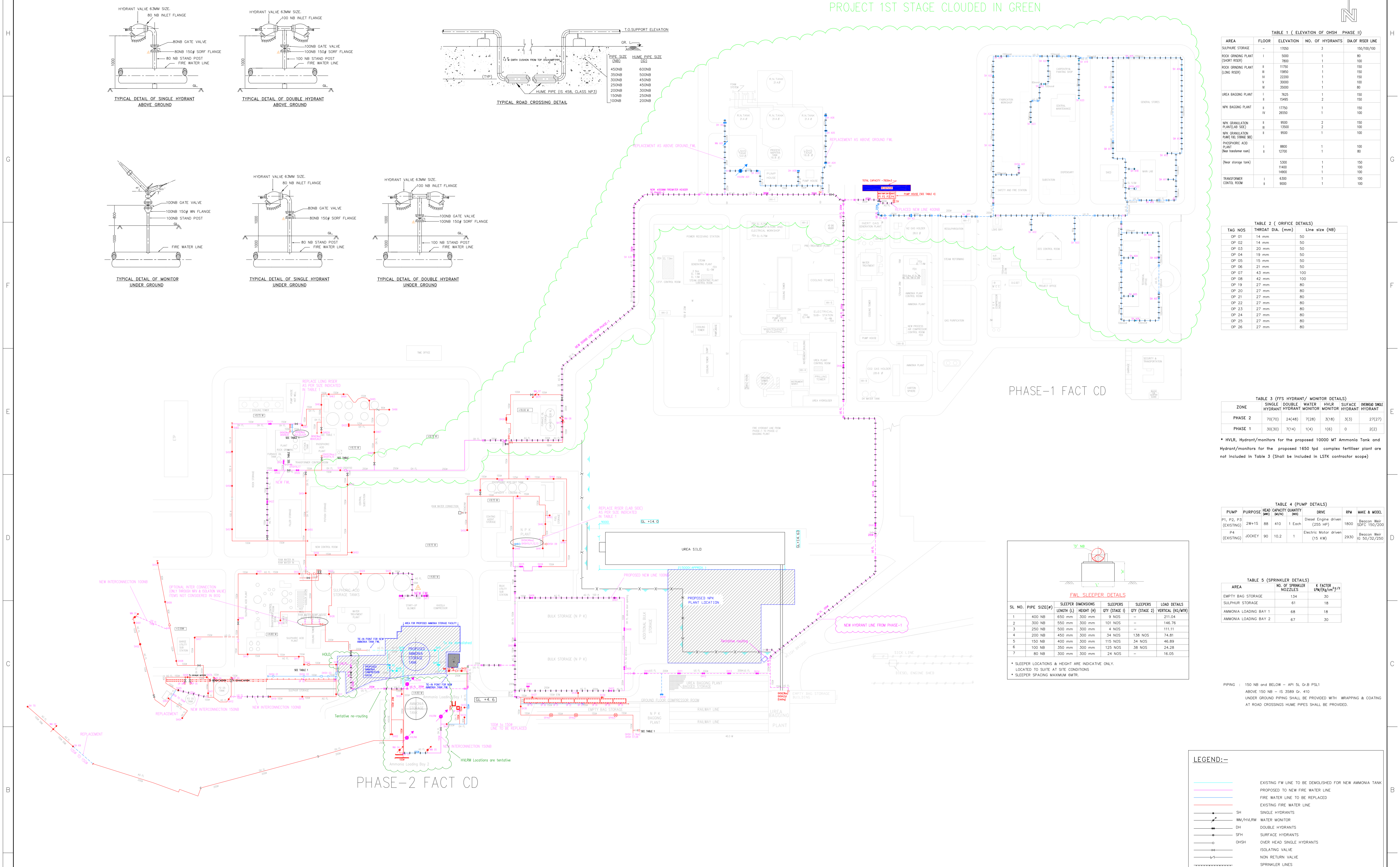
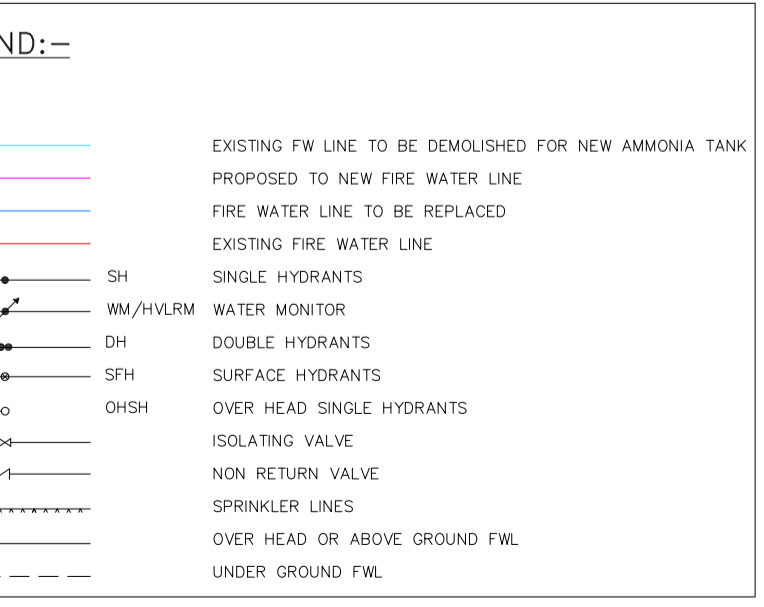
AREA	NO. OF SPRINKLER NOZZLES	K FACTOR L/W/100m ² /z
EMPTY BAG STORAGE	134	30
SULPHUR STORAGE	61	18
AMMONIA LOADING BAY 1	68	18
AMMONIA LOADING BAY 2	67	30



FWL SLEEPER DETAILS

SL NO.	PIPE SIZE (ø)	SLEEPER DIMENSIONS LENGTH (L) HEIGHT (H)	SLEEPERS QTY (STAGE 1) QTY (STAGE 2)	LOAD DETAILS VERTICAL (KG/MTR)
1	400 NB	650 mm 300 mm	9 NOS	211.04
2	300 NB	550 mm 300 mm	101 NOS	146.76
3	250 NB	500 mm 300 mm	4 NOS	111.11
4	200 NB	450 mm 300 mm	34 NOS	138 NOS 74.81
5	150 NB	400 mm 300 mm	115 NOS	34 NOS 46.89
6	100 NB	350 mm 300 mm	125 NOS	38 NOS 24.28
7	80 NB	300 mm 300 mm	24 NOS	16.05

* SLEEPER LOCATIONS & HEIGHT ARE INDICATIVE ONLY.
 * LOCATED TO SUITE AT SITE CONDITIONS
 * SLEEPER SPACING MAXIMUM 6MTR.



DRAWING ORIGINATED FROM: 32536-01-FH-001, R8 LAYOUT OF FIRE HYDRANT SYSTEM - COCHIN DIVISION (PHASE-1 & 2)

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CLIENT	FACT-CD, AMBALAMEDU	DRAWN	MAHESH	PROJECT NAME:	FIRE HYDRANT SYSTEM
DRAWING NO.	32536-01-FH-001, R8	CHECKED	SK	PROJECT NO.:	3901-32536
TITLE	LAYOUT OF FIRE HYDRANT SYSTEM - COCHIN DIVISION (PHASE-1 & 2)	DESIGNED	LA	TITLE:	FIRE WATER NETWORK & SLEEPER LAYOUT - COCHIN DIVISION (PHASE-1 & 2)
REFERENCE DRAWING		CHECKED	SK	SHEET 1 OF 1	DRG. NO. 32536-01-FWN_SL-00001
R.No.		APPROVED	AAN	REV.	