

**MINISTRY OF HEALTH & FAMILY WELFARE,
GOVT. OF INDIA, NEW DELHI
(Department of AYUSH)**

Tender (Second Call)

For

Design, Supply, Installation, Testing & Commissioning of Sewage Treatment Plant (STP) and Effluent Treatment Plant (ETP) including Civil and other associated works in the existing All India Institute of Ayurveda Campus for Deptt of AYUSH at Sarita Vihar, New Delhi

Volume-VI

TENDER DRAWINGS

OCTOBER '2013



**HSCC (INDIA) LTD.
(CONSULTANTS & ENGINEERS FOR MEGA HOSPITALS & LABORATORIES)
E-6(A), sector-1, NOIDA(U.P) 201301 (India)**

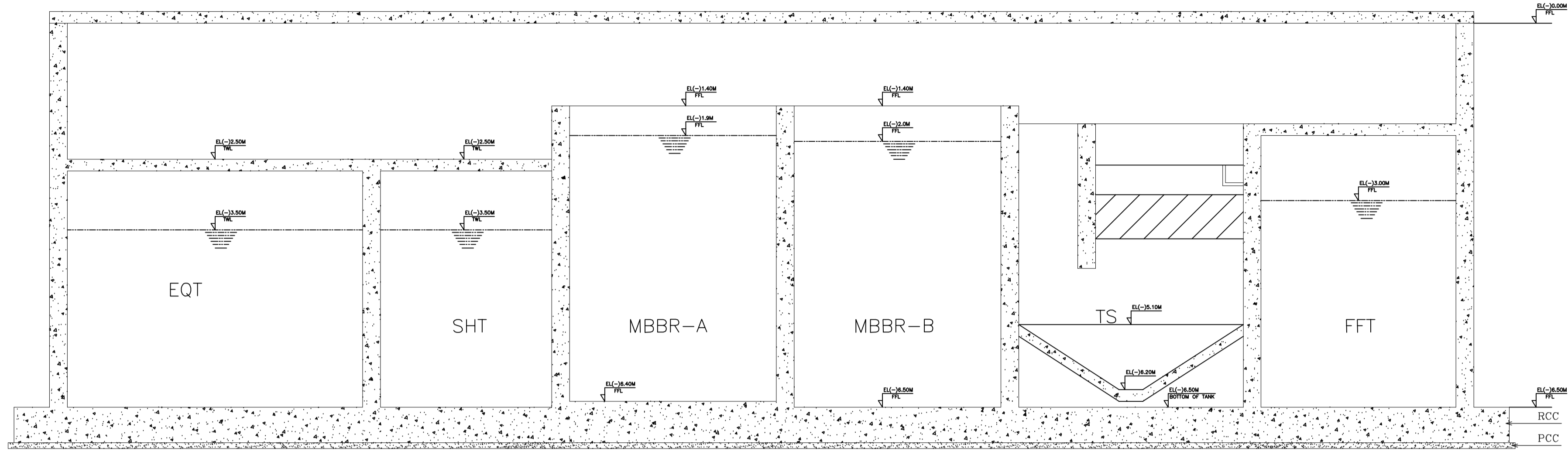
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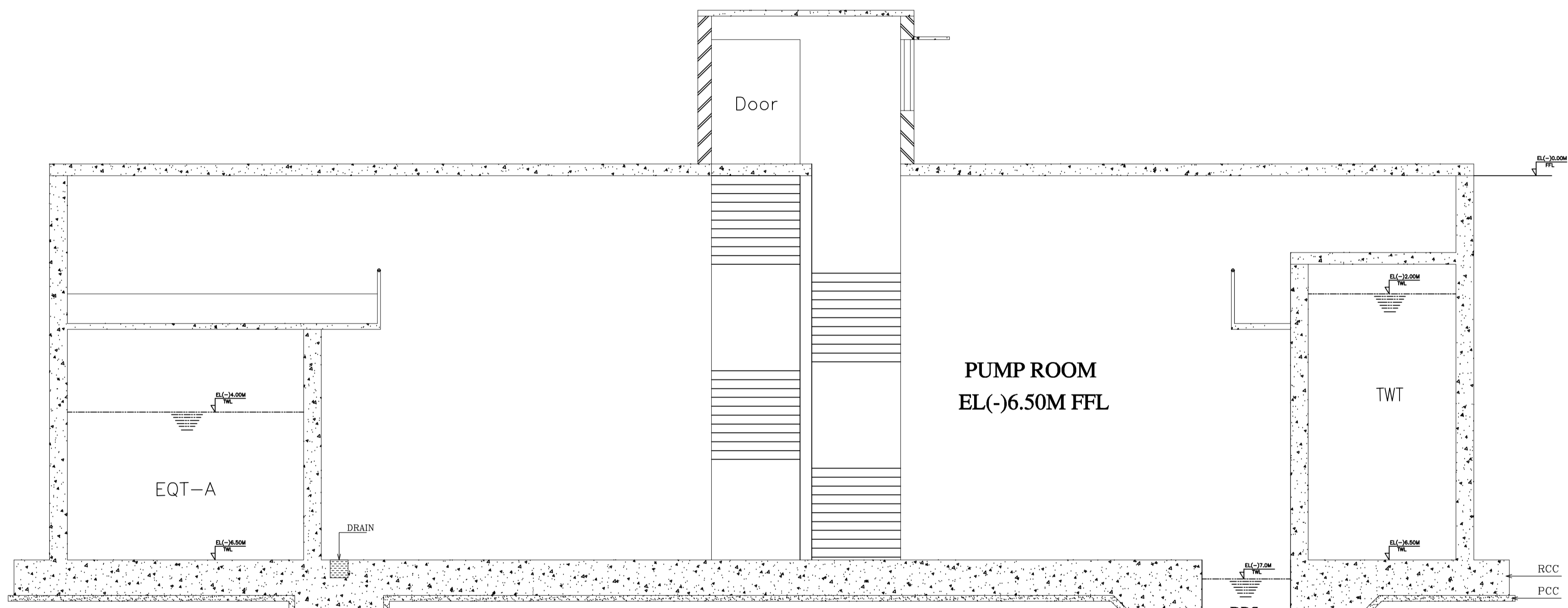
Tender No. HSCC/AIIA/STP/2013

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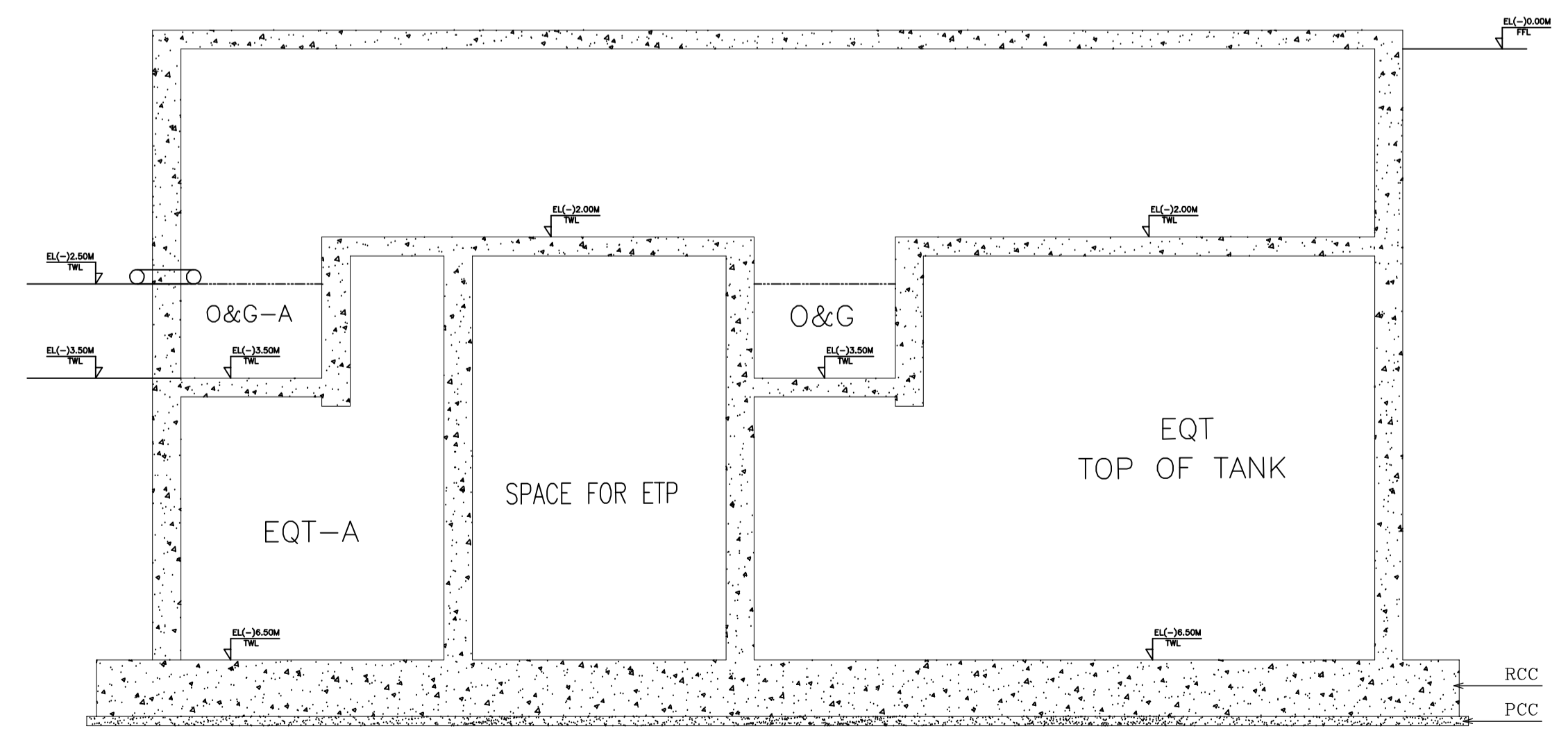
- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
 2. FIGURED DIMENSIONS SHALL BE FOLLOWED. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED BEFORE COMMENCEMENT OF THE WORK.
 3. DISCREPANCY IF ANY, SHALL BE BROUGHT TO THE NOTICE OF ED (ARCH./D&E/DGM(D&E), AND CLARIFICATIONS SHALL BE OBTAINED IN WRITING PRIOR TO EXECUTION OF WORK.
 4. THE WORK SHALL BE EXECUTED STRICTLY BASED ON LATEST REVISION OF C.P.W.D. SPECIFICATIONS AND RELEVANT I.S. CODES.
 5. THE SHOP DRAWINGS OF ETP/PLUMBING/FIRE-FIGHTING WORK SHALL BE PREPARED BY EXECUTING AGENCY FOR THE APPROVAL.
 6. LOCATION OF UGT SHALL BE FINALISED AS PER SITE CONDITION.
 7. THE LOCATION OF SEPTIC TANK & INVERT LVL. SHALL BE FINALISED AS PER SITE CONDITION BY ENGINEERING INCHARGE.



SECTION (A-A)



SECTION (B-B)



SECTION (C-C)

- NOTES**
1. BASED ON THIS DRAWING EXECUTING AGENCY WILL PREPARE SHOP DRAWING AFTER INCORPORATING THE CHANGES AS PER SITE CONDITION FOR THE APPROVAL OF ENGINEER-IN-CHARGE BEFORE START OF WORK.
 2. THE NO & LOCATION OF FIXTURES TO BE FINALIZED BEFORE EXECUTION WITH HSCC IN-CHARGE OF PROJECT.

PRINTS ISSUED

NO.	DATE	DESCRIPTION

PROJECT

PROPOSED STP & ETP AT AYUSH, SARITA VIHAR

TITLE PLUMBING DRAWING

STP & ETP FOR HOSPITAL AT AYUSH, SARITA VIHAR

HSCC / D&E/ STP / TD/PL-1	REV. -0
DRAWING NO.	
HSCC JOB NO.	SCALE
	15.10.12 DATE
R.TYAGI App by	S.SUR Rev. by
	S.BHATT Prep. by

HSCC (INDIA) LIMITED
(A GOVERNMENT OF INDIA ENTERPRISES)

HSCC

NEW DELHI INDIA

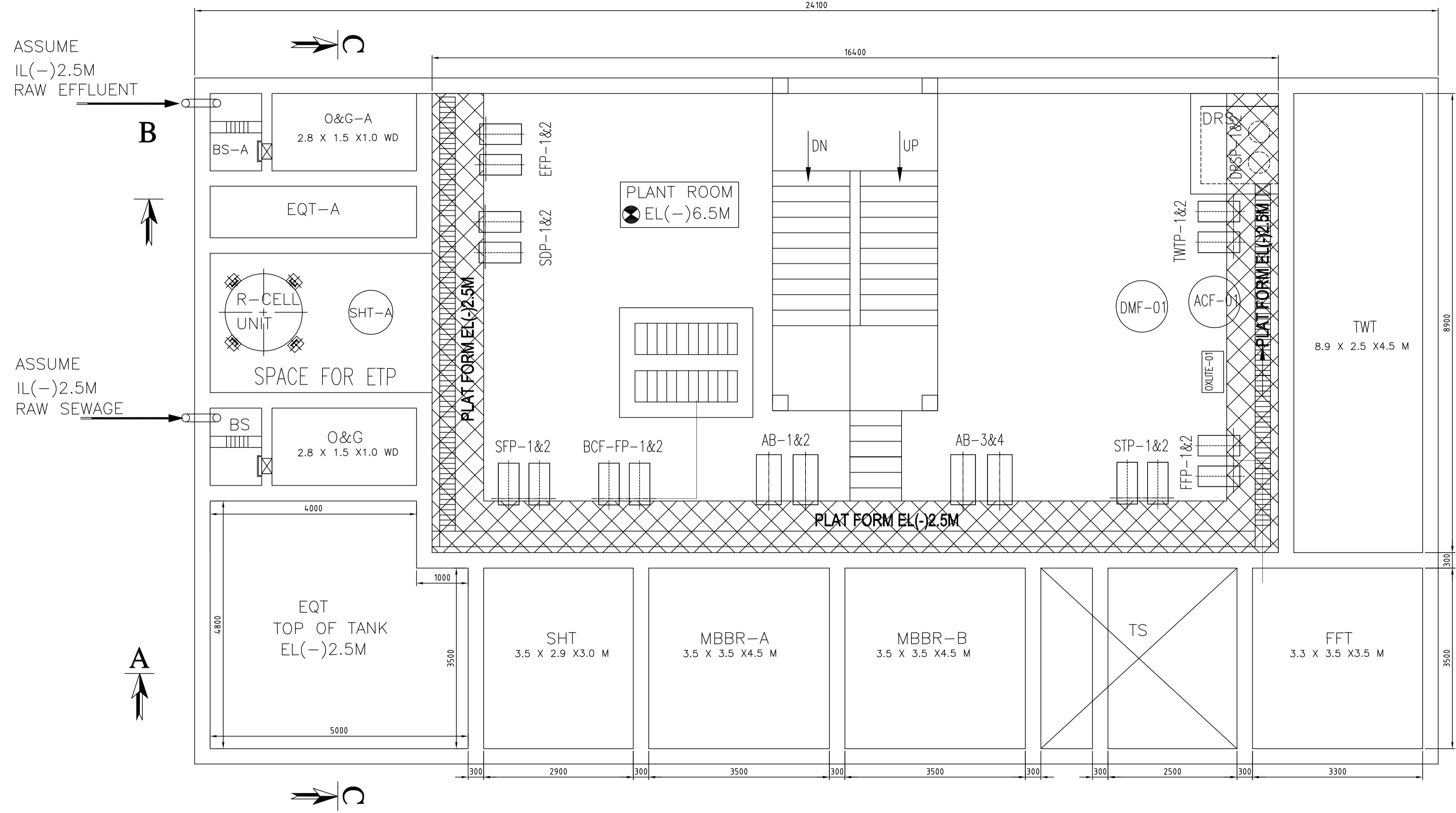
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LIST OF MECHANICAL UNITS STP

TAG. NO.	DESCRIPTION	SIZE/CAP.	QTY.
SFP-1&2	SEWAGE FEED PUMPS	SUITABLE	2NOS.
FFP-1&2	FILTER FEED PUMPS	SUITABLE	2NOS.
STP-1&2	SLUDGE TRANSFER PUMPS	SUITABLE	2NOS.
TWTP-1&2	TREATED WATER TRANSFER PUMPS	SUITABLE	2NOS.
BCF-FP-1&2	BASKET CENTRIFUGAL FEED PUMPS	SUITABLE	2NOS.
DRSP-1&2	DRAIN SUMP PUMPS	SUITABLE	2NOS.
AB-1&2	AIR BLOWERS	SUITABLE	2NOS.
MM-MBBR-A&B	MEDIA FOR MBBR REACTORS	AS PER STD.	1LOT.
TM-TS	MEDIA FOR TUBE SETTLER	AS PER STD.	1LOT.
ADG-MBBR-A&B	AIR GRID FOR MBBR REACTORS	AS PER STD.	1LOT.
ADG-EQT	AIR GRID FOR EQUALIZATION TANK	AS PER STD.	1LOT.
ADG-TWT	AIR GRID FOR TREATED WATER TANK	AS PER STD.	1LOT.
ADG-SHT	AIR GRID FOR SLUDGE HOLDING TANK	AS PER STD.	1LOT.
DMF	DUAL MEDIA FILTER	SUITABLE	1NO.
ACF	ACTIVATED CARBON FILTER	SUITABLE	1NO.
FP-01	FILTER PRESSES	SUITABLE	1NO.
OX-01	OXYLITE SYSTEM	SUITABLE	1NO.
DB	DISTRIBUTION BOARD	SUITABLE	1NO.
---	ICPW	SUITABLE	1LOT.

LIST OF CIVIL UNITS FOR STP

TAG. NO.	DESCRIPTION	SIZE/CAP.	QTY.
BS	BAR SCREEN	0.5 x 1.5 x 0.5M SWD	1NO.
O&G	OIL & GREASE	2.3 x 1.5 x 1.5M SWD	1NO.
EQT	EQUALIZATION TANK	7.75 x 3.0 x 3.0M SWD	1NO.
MBBR-A&B	MBBR REACTORS	3.0 x 1.5 x 4.5M SWD	2NOS.
TS	TUBE SETTLER	3.0 x 3.0 x 2.7M SWD	1NO.
FFT	FILTER FEED TANK/CCT	4.0 x 3.0 x 2.5M SWD	1NO.
TWT	TREATED WATER TANK	12.5 x 3.0 x 3.0M SWD	1NO.
SHT	SLUDGE HOLDING TANK	4.0 x 3.0 x 3.0M SWD	1NO.
DRS	DRAIN SUMP	1.5 x 1.5 x 1.5M SWD	1NO.

NOTES:

- ALL DIMENSIONS ARE IN MM
- FOUNDATION PLAN SUPERCEDES PLOT PLAN
- ASSUME INLET INVERT LEVEL IL(-)2.50M (NEAR TO PLANT)
- PLANT ROOM CLEAR HEIGHT EL(-)6.5M

LIST OF CIVIL UNITS FOR ETP

TAG. NO.	DESCRIPTION	SIZE	QTY
BS-A	BAR SCREEN PIT	0.3 x 1.0 x 0.3M SWD	1
O&G-A	OIL AND GREASE TRAP	1.0 x 1.0 x 0.5M SWD	1
EQT-A	EQUALIZATION TANK	3.0 x 1.5 x 1.0M SWD	1
SHT-A	SLUDGE HOLDING TANK	3.0 x 1.0 x 1.0M SWD	1

LIST OF MECHANICAL UNITS FOR ETP

TAG. NO.	DESCRIPTION	QTY
R cell CUM FLC.	ELECTRO COAGULATION UNIT CUM FLOCCULATOR TANK (MSFRP)	1 NO.
EFF-1/2-A	EFFLUENT FEED PUMPS	2 NOS.
SDP-1/2-A	SLUDGE DISPOSAL PUMPS	2 NOS.
ADG-SHT-A	AIR GRID FOR SLUDGE HOLDING TANK	LOT
PDT	POLY DOSING TANK	1 NO.
PDP	POLY DOSING PUMP	1 NO.
ICPW	INTER CONNECTING PIPING WORK	LOT.

TITLE: **S.T.P. & E.T.P.**

SUB TITLE: **PLAN FOR STP-216 KLD & ETP-11KLD**

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