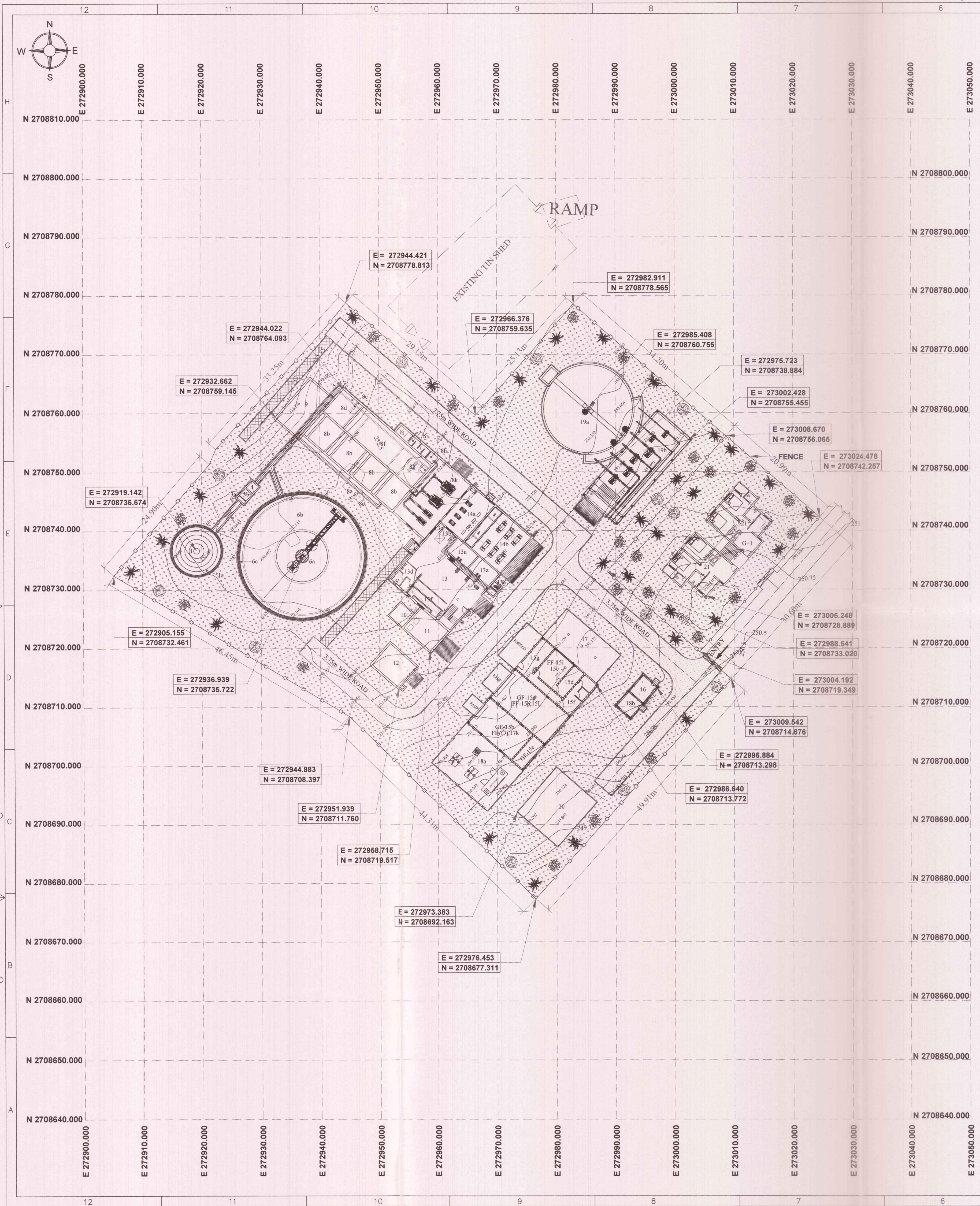
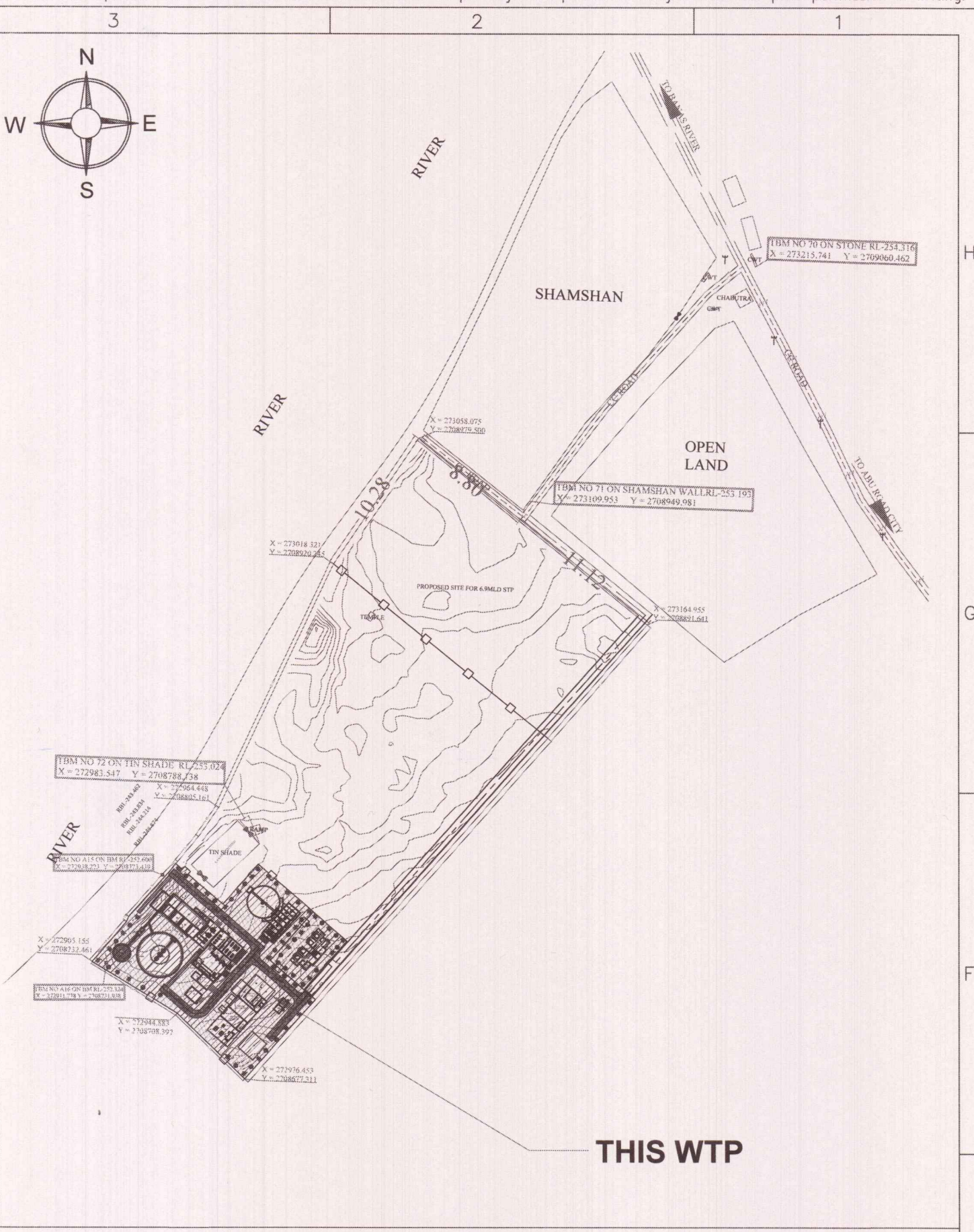




LIST OF CIVIL UNITS			
SL.NO	NAME OF THE STRUCTURE	INTERNAL UNIT SIZE IN M	QTY
1	CASCADE AERATOR	Dia of 1st cascade lip (I step) = 1.0m Dia of 2nd cascade (II step) = 2.5m Dia of 3rd cascade (III step) = 4.0m Dia of 4th cascade (IV step) = 5.5m Dia of 5th cascade (V step) = 7.0m 7.0m (Dia.) x 1.25m (Ht) + 0.5m (FB)	1
1a	COLLECTION CHAMBER	8.2m (Dia.) x 0.35m (Ht) + 0.5m (FB)	1
2	PARSHALL FLUME (APPROACH CHANNEL / FLUME / DOWNSTREAM CHANNEL)	6.7m (L) x 0.9m (W) x 0.55m (LD) + 0.5m (FB)	1
3a	INLET ZONE OF FLASH MIXER	0.5m (L) x 1.5m (W) x 2.55m (LD) + 0.5m (FB)	1
3b	FLASH MIXER	1.5m (L) x 1.5m (W) x 2.5m (LD) + 0.5m (FB)	1
4	DISTRIBUTION CHAMBER	1.5m (L) x 1.5m (W) x 1.2m (LD) + 0.5m (FB)	1
5	BYPASS CHANNEL	0.5m (W) x 0.4m (LD) + 0.5m (FB)	1
	CLARIFLOCCULATOR DETAIL		
6	a. FLOCCULATOR ZONE	8.8m (Inner Dia.) x 3.5m (LD) + 0.5m (FB)	1
	b. CLARIFLOCCULATOR	21.0m (Dia.) x 3.5m (LD) + 0.5m (FB)	1
	c. CLARIFIER LAUNDER	0.45m (W) x 0.6m (LD)	1
7	CLARIFIED WATER CHANNEL	0.5m (W) x 0.4m (LD) + 0.5m (FB)	1
	FILTER HOUSE (+)	19.7m (L) x 10.1m (W)	1
	a. FILTER INLET CHANNEL	0.8m (W) x 0.5m (LD) + 0.5m (FB)	1
	b. RAPID GRAVITY SAND FILTERS (SINGLE BED SIZE)	3.8m (L) x 4.8m (W)	4
	c. TREATED WATER CHANNEL	0.8m (W) x 0.5m (LD) + 0.5m (FB)	1
	d. FILTER HOUSE GALLERY	19.70m (L) x 5.0m (W)	1
8	e. DIRTY BACKWASH CHANNEL	0.8m (W) x 0.3m (LD) + 0.5m (FB)	1
	f. BACKWASH WATER - OVERHEAD TANK	15.1m (L) x 5m (W) x 1.5m (LD) + 0.5m (FB)	1
	g. DRAIN PIT FOR FILTER HOUSE	1.0m (L) x 1.0m (W) x 1.0m (LD) + 0.3m (FB)	1
	h. CCT INLET CHAMBER	1.5m (L) x 1.5m (W) x 1.85m (LD) + 0.5m (FB)	1
	i. CHLORINE CONTACT TANK (INCLUDING OUTLET CHAMBER)	6.6m (L) x 1.5m (W) x 1.15m (LD) + 0.5m (FB)	1
	j. CCT OUTLET CHAMBER	1.5m (L) x 1.5m (W) x 1.1m (LD) + 0.5m (FB)	1
	k. FILTER ANNEXE BUILDING	11.9m (L) x 7.0m (W) x 4.0m (Ht)	1
9	DIRTY BACKWASH SETTLING TANK	8.8m (L) x 5.0m (W) x 2.5m (LD) + As per HFD (FB)	1
10	SLUDGE SUMP	3.0m (L) x 3.0m (W) x 2.0m (LD) + As per HFD (FB)	1
11	DEWATERING BUILDING	6.0m (L) x 4.5m (W) x 4.5m Ht	1
12	DEWATERED SLUDGE STORAGE SHED (+)	30 sq.m x 4.0m (Ht)	1
13	CHEMICAL HOUSE (+)		
	GROUND FLOOR PLAN	13.13m (L) x 12.7m (W) x 4.5m (Ht)	1
	a. PACL BULK STORAGE TANK	4.5m (L) x 2.8m (W) x 2.1m (LD) + 0.5m (FB)	2
	b. ALUM STORAGE AREA	1.8m (L) x 1.4m (W) x 1.6m (Ht)	1
	c. DWPE STORAGE AREA	0.8m (L) x 0.8m (W) x 0.5m (Ht)	1
	d. WASHROOM	3.275m (L) x 4.0m (W)	1
	e. DRAIN PIT FOR CHEMICAL HOUSE	2.0m (L) x 1.5m (W) x 1.5m (LD) + 0.3m (FB)	1
	f. ELECTRICAL PANEL	6.5m (L) x 0.8m (W)	1
	FIRST FLOOR PLAN	13.13m (L) x 12.7m (W) x 4.0m (Ht)	1
	g. DWPE DOSING TANK	1.1m (Dia) x 1.2m (LD) + 0.5m (FB)	2
	h. PACL DOSING TANK	1.1m (Dia) x 1.2m (LD) + 0.5m (FB)	2
	i. ALUM DOSING TANK	1.2m (L) x 1.2m (W) x 1.0m (LD) + 0.5m (FB)	2
	j. WASHROOM	3.275m (L) x 4.0m (W)	1
	k. CONTROL ROOM	5.0m (L) x 4.0m (W)	1
14	a. CHLORINATOR ROOM	8.0m (L) x 5.0m (W) x 4.5m (Ht)	1
	b. CHLORINE TONNER SHED	7.9m (L) x 8m (W) x 4.5m (Ht)	1
15	ADMIN - CONTROL - LAB BUILDING (+)		
	GROUND FLOOR PLAN		
	a. WORKSHOP	6.2m (L) x 12.0m (W) x 3.5m (Ht)	1
	b. MOTOR CONTROL CENTER ROOM	9.5m (L) x 5.5m (W) x 3.5m (Ht)	1
	c. CANTEN ROOM	5.4m (L) x 4.0m (W) x 3.5m (Ht)	1
	d. KITCHEN/PANTRY	5.4m (L) x 2.1m (W) x 3.5m (Ht)	1
	e. STORE ROOM	5.5m (L) x 2.2m (W) x 3.5m (Ht)	1
	f. STAFF ROOM WITH TOILET	6.8m (L) x 2.5m (W) x 3.5m (Ht)	1
	g. STAIR	6.8m (L) x 2.6m (W)	1
	FIRST FLOOR PLAN		
	h. OFFICE	6.2m (L) x 8.0m (W) x 3.5m (Ht)	1
	i. LABORATORY	6.8m (L) x 9.2m (W) x 3.5m (Ht)	1
	j. PLC CUM SCADA ROOM	5.5m (L) x 7.3m (W) x 3.5m (Ht)	1
	k. CONFERENCE ROOM	5.5m (L) x 4.5m (W) x 3.5m (Ht)	1
	l. STAFF ROOM WITH TOILET	6.2m (L) x 2.2m (W) x 3.5m (Ht)	1
16	SECURITY CABIN	3.5m (L) x 3.0m (W) x 3.0m (Ht)	1
17	COVERED GARAGES	75 Sqm x 4m (Ht)	1
18	ELECTRICAL BUILDINGS & STRUCTURES (+)		
	a. TRANSFORMER RMU DG YARD	12.4m (L) x 9.0m (W)	1
	b. METERING ROOM	3.0m (L) x 3.0m (W) x 3.0m (Ht)	1
19a	CLEAR WATER RESERVOIR (CWR)	15m (Dia) x 5.0m (W) + 0.5m (FB)	1
19b	CWR - PUMP HOUSE	18.6m (L) x 7.0 m(W) x 11.0m (Ht)	1
20	MASTER CONTROL CENTER (G+1)	10.0m (L) x 9.0 m(W) x 4.0m (Ht)	1
21	STAFF QUARTER (+)	75 Sqm	4



KEYPLAN

NOTES :-

1. FINISHED GROUND LEVEL (FGL) YET TO BE FINALIZED
2. FOR BASIC ENGINEERING PACKAGE OF STP, REFER DOC. NO. LE200452-P-WW-WT-BE-2201_REV. B
3. UNITS MARKED AS "+" SUBJECTED TO CHANGE DURING DETAILED ENGINEERING.
4. REFER SEPARATE DRAWING FOR STORM WATER DRAIN, PIPING & LIGHTING.
5. CO-ORDINATES SHOWN IN THE DRAWING ARE BASED ON REFERENCE CO-ORDINATES MENTIONED IN THE SURVEY DRAWING.

PACKAGE NO. RSTOPIABR 01
RSTOSP (RUIDP PH-IV)

Reviewed only for general conformance with drawing & Specifications. Contractor is responsible for all anomalies and for adherence to the contract obligations.

Category - 02 Date 28/11/20

1. Recommended for Approval ☐

2. Recommended for approval with Comments ☐

3. Returned with Comments for Resubmission ☐

4. Retained for information only ☐

ACM/TL (CMSC) Expert/TL (PMCBC) APPROVED: S.E./E.E.

B	REVISED AS PER CONSULTANT COMMENTS DATED ON 06.10.20 & 09.11.20	PK/AGK 11.11.20	AAR 11.11.20	VSD 12.11.20	RVS 12.11.20
A	FOR APPROVAL	PK/AGK 07.08.20	AAR 07.08.20	VSD 08.08.20	RVS 08.08.20
REV.NO.	DESCRIPTION	DESIGNED	DRAWN	CHECKED	APPROVED

CLIENT : RAJASTHAN URBAN INFRASTRUCTURE DEVELOPMENT PROJECT

CONSULTANT : PMCBC & CMSC-02

PROJECT : "Construction of Works of Water Supply Production and Distribution Network Improvements with house service connections for nonrevenue water reduction and continuous water supply and Providing Sewer Network with House connections, and construction of Sewage Treatment Plant and all allied Works and operation services of the entire system for 10 years at Aburoad" (RSTDPIABR/01)

SUPPLIER / CONTRACTOR : L&T Construction Water & Effluent Treatment IC

JOB No. : LE200452 **TITLE :** LAYOUT PLAN OF 10 MLD WTP AT ABU ROAD

SCALE : 1:0.35 **PROJECTION :**

CHECKED BY : ARCHITECTURE CIVIL & STRUCTURAL MECHANICAL-PIPING MECHANICAL-NETWORK ELECTRICAL INSTRUMENTATION

RELEASED FOR : PRELIMINARY TENDER INFORMATION APPROVAL CONSTRUCTION

DRAWING No. : L E 2 0 0 4 5 2 - P - W W - W T - P P - 2 2 0 3 **SHEET 1 OF 1**

SIZE : A1 **REV. :** B