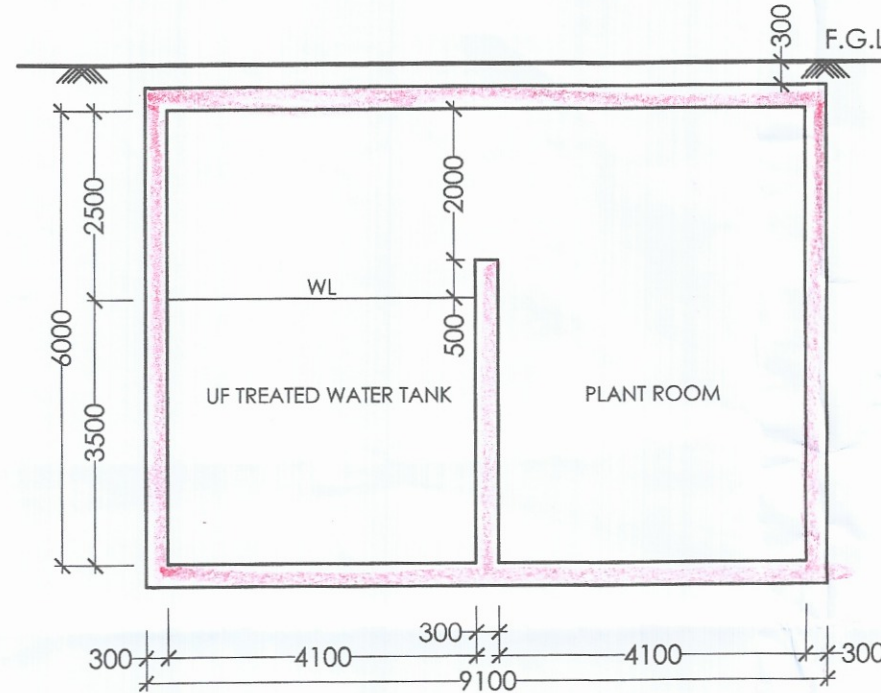
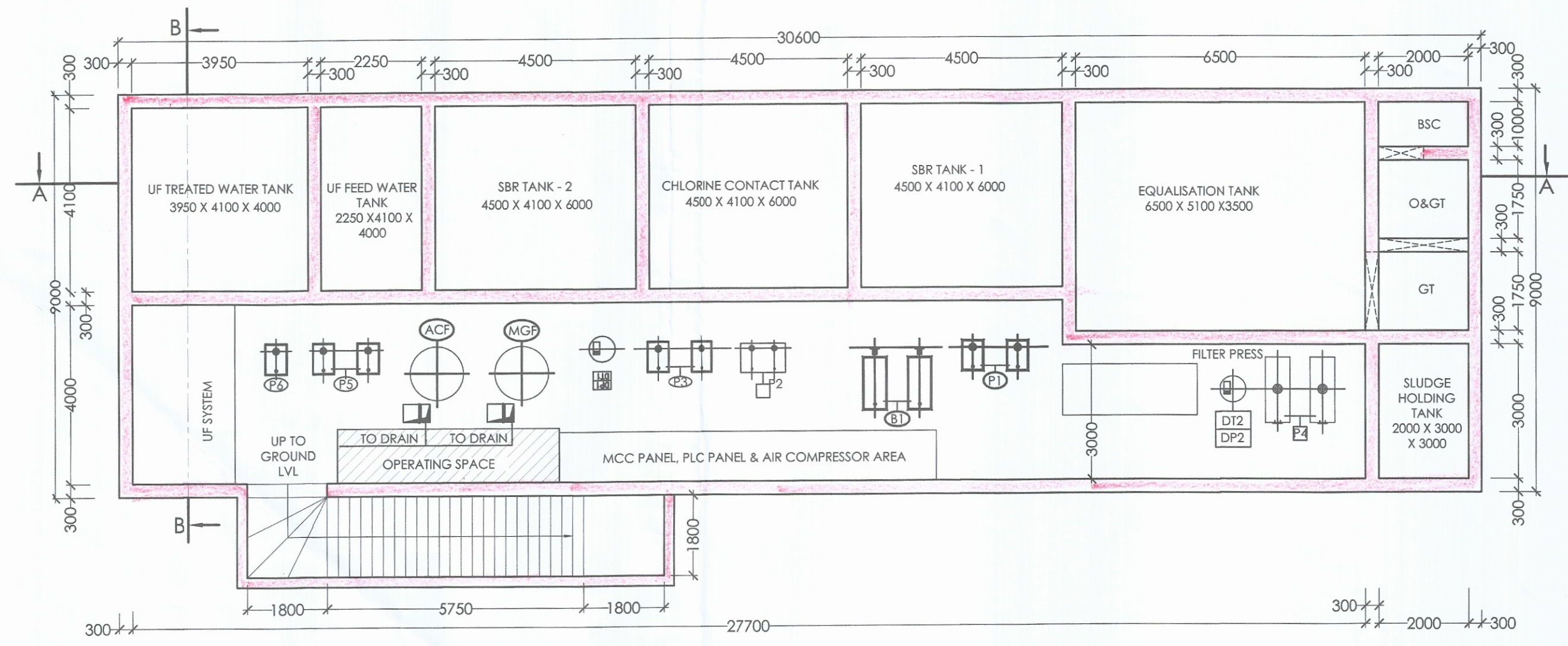


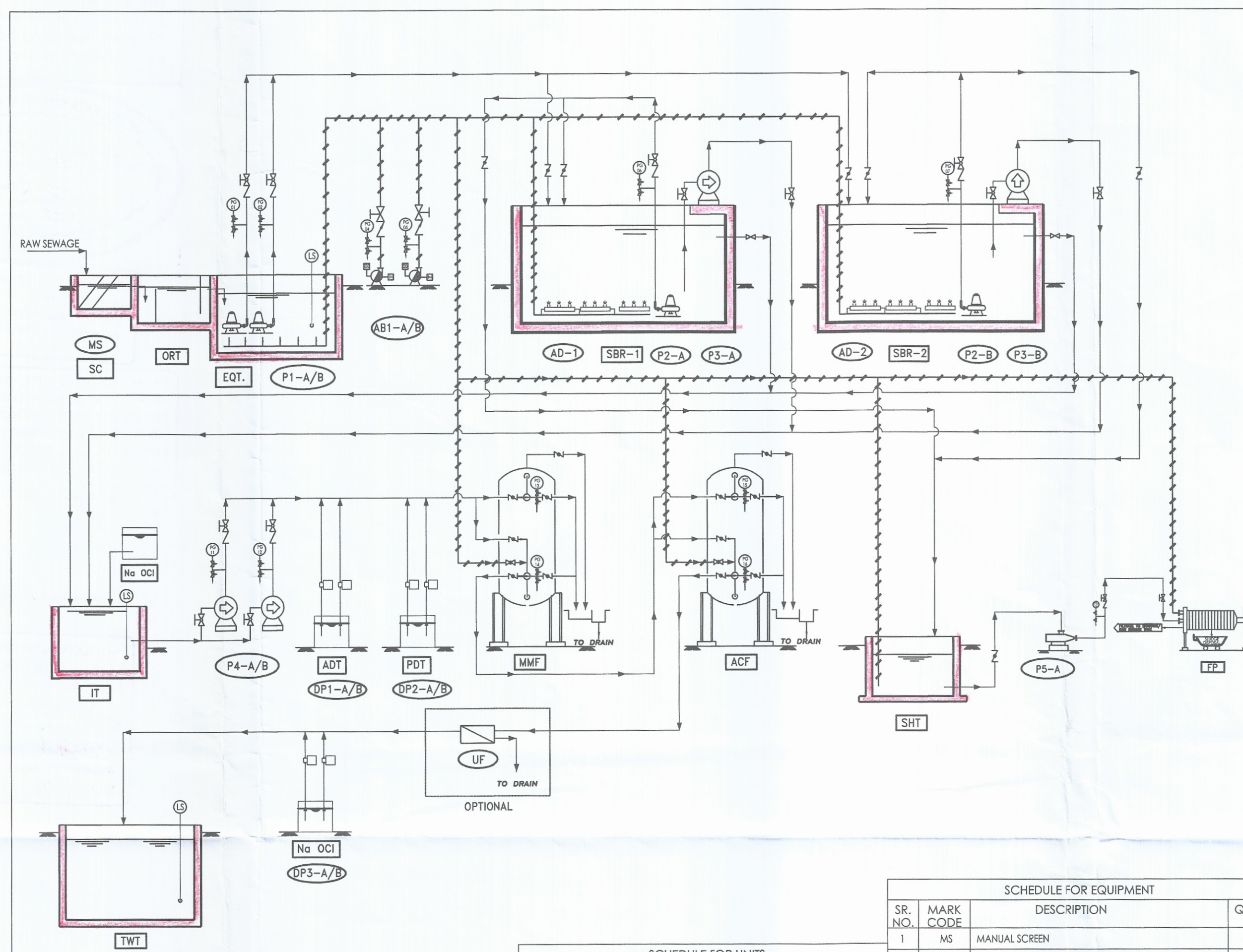
SECTION 'A-A'



SECTION 'B-B'



PLAN



P & I DIAGRAM FOR SEQUENTIAL BATCH REACTOR WITH ULTRA FILTRATION WITHOUT SOFTENER

SCHEDULE FOR UNITS			
SR. NO.	MARK CODE	DESCRIPTION	QTY.
1	SC	SCREEN CHAMBERS	1
2	ORT	OIL REMOVAL TANK	1
3	EQT	EQUALISATION TANK	1
4	SBR-1	SEQUENCING BATCH REACTOR-1	1
5	SBR-2	SEQUENCING BATCH REACTOR-2	1
6	IT	INTERMEDIATE TANK	1
7	-	FILTER FEED PUMPS FOUNDATION	1
8	No OCI	No OCI DOSING TANK IN IT	1
9	ADT	ALUM DOSING TANK	1
10	PDT	POLY DOSING TANK	1
11	MMF	MIXED MEDIA FILTER	1
12	ACF	ACTIVATED CARBON FILTER	1
13	TWT	TREATED WATER TANK	1
14	No OCI	No OCI DOSING TANK IN TWT	1

SCHEDULE FOR EQUIPMENT			
SR. NO.	MARK CODE	DESCRIPTION	QTY
1	MS	MANUAL SCREEN	2
2	P1-A/B	RAW SEWAGE TRANSFER PUMPS	2
3	AG	AIR GRID IN EQT.	1
4	AB A/B	TWIN LOBE AIR BLOWERS IN EQT. SBR, FILTER SHT & FP	2
5	P2-A	RETURN SLUDGE TRANSFER PUMP	1
6	P3-A	DE-CANTER PUMP-SBR-1 (WORKING + 1 STAND BY)	2
7	AD-1	AIR DIFFUSERS-1 IN SBR-1	1
8	P2-B	RETURN SLUDGE TRANSFER PUMP	1
9	P3-B	DE-CANTER PUMP-SBR-2 (WORKING + 1 STAND BY)	2
10	AD-2	AIR DIFFUSERS-2 IN SBR-2	1
11	P4-A/B	FILTER FEED TRANSFER PUMPS	2
12	DP1-A/B	ALUM DOSING PUMPS	2
13	DP2-A/B	POLY DOSING PUMPS	2
14	UF	ULTRA FILTRATION	1
15	DP3-A/B	No OCI DOSING PUMP	2
16	P5-A	FILTER PRESS FEED TRANSFER PUMP	1
17	FP	FILTER PRESS	1

MARK	DESCRIPTION	SIZE / CAPACITY	NO.OFF	WORKING WT IN Kgs./UNIT
BS	BAR SCREEN	1000 X 1500	2	-
BSC	BAR SCREEN CHAMBER	1000 X 2000 X 1500	1	-
O>	OIL & GREASE TANK	1750 X 2000 X 2000	1	-
GT	GRIT TANK	1750 X 2000 X 2000	1	-
EQT	EQUALISATION TANK	5100 X 6500 X 3500	1	-
B1	EQT & SBR AIR BLOWER	255.0 m3/hr @ 0.50 kg/cm2	2	300 EACH
P1	SBR FEED PUMP	14.0 m3/hr @ 10 mmwc	2	300 EACH
SBR-1&2	SBR TANK-1&2	4500 L X 4100 W X 6000 H	2	-
DC-1&2	FLOATING DECANTER	80.0 m3/hr	2	-
DT1	NaOCI DOSING TANK	200 Ltrs	1	-
DP1	NaOCI DOSING PUMP	17.0 LPH @ 3.5 KG/CM2	1	225
CCT	CHLORINE CONTACT TANK	4100 X 4500 X 2500 SHD	1	-
P2	MCF FEED PUMP	15.0 m3/hr @ 30 mmwc	2	300 EACH
MGF	MULTIGRADE FILTER	1200 DIA X 1875 HOS	1	-
ACF	ACTIVATED CARBON FILTER	1200 DIA X 1875 HOS	1	-
P3	SLUDGE TRANSFER PUMP	AS SUITABLE	2	300 EACH
SHT	SLUDGE HOLDING TANK	2000 X 3000 X 3000	1	-
P4	FILTER PRESS FEED PUMP	AS SUITABLE	2	300 EACH
DT2	POLYMER DOSING TANK	AS SUITABLE	1	-
DP2	POLYMER DOSING PUMP	AS SUITABLE	1	225
FP	FILTER PRESS	AS SUITABLE	1	-
P5	UF FEED PUMP	AS SUITABLE	2	300 EACH
UF	ULTRAFILTRATION SYSTEM	AS SUITABLE	1	-
P6	UF BACKWASH PUMP	AS SUITABLE	1	300 EACH

THIS DRAWING IS A PRIVATE AND CONFIDENTIAL COMMUNICATION AND THE PROPERTY OF MANIRAMKA AND ASSOCIATES AND MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF MANIRAMKA AND ASSOCIATES.

CERTIFICATE OF ARCHITECT
I CERTIFY WITH FULL RESPONSIBILITY THAT THE BUILDING PLAN HAS BEEN DRAWN AS PER PROVISION OF K.M.C. BUILDING RULES 2009 AS AMENDED FROM TIME TO TIME AND THE SITE CONDITION INCLUDING WIDTH OF THE ABUTTING ROAD (31.268 MT.) CONFORMS WITH THE PLAN WHICH HAS BEEN MEASURED & VERIFIED BY ME. IT IS A BUILDABLE SITE NOT A TANK OR FILLED UP TANK. THE LAND IS DEMARCATED BY BOUNDARY WALL. EXISTING STRUCTURE SHALL BE DEMOLISHED BEFORE COMMENCEMENT OF THE CONSTRUCTION WHICH IS FULLY OCCUPIED BY THE OWNER & TENANTS.

Sunil Maniramka
SUNIL MANIRAMKA (B.Arch.)
Consulting Architect
Council of Architecture (Regn. No. CA/83/18836)

SIG. OF ARCHITECT

CERTIFICATE OF STRUCTURAL ENGINEER
THE STRUCTURAL DESIGN & DRAWING OF THE BOTH FOUNDATION AND SUPER STRUCTURE OF THE BUILDING HAS BEEN MADE BY ME CONSIDERING ALL THE POSSIBLE LOADS INCLUDING SEISMIC LOAD AS PER THE NATIONAL BUILDING CODE OF INDIA AND CERTIFY THAT IT IS SAFE STABLE IN ALL RESPECT. SOIL TESTING REPORT HAS BEEN DONE BY SKM GEOTECHNICAL, 8K-130, SALT LAKE, KOLKATA-700091. THE RECOMMENDATION OF REPORT HAS BEEN CONSIDERED DURING STRUCTURAL CALCULATION.

Sanjay K. Parekh
SANJAY K. PAREKH
M.E. (STRUCT.), M.E. (CONST. ENG.),
B.C.E., FIE (F-418202-4),
E. S. E. No. 104 (I) K.M.C.

SIG. OF STR. ENGINEER

CERTIFICATE OF STRUCTURAL REVIEWER
THIS IS TO CERTIFY THAT I HAVE REVIEWED THE STRUCTURAL DESIGN OF PROPOSED PREMISES CONSIDERING ALL POSSIBLE LOADS INCLUDING SEISMIC LOAD AS PER PROVISION OF RELEVANT IS CODE AND IT IS ALSO CERTIFIED THAT THE BUILDING IS SAFE AND STABLE IN ALL RESPECT.

Sanjay B. Guha
SANJAY B. GUHA
BSC, BCE, FIE (F-115654-5),
CHARTERED ENGINEER
ENLISTED STRUCTURAL
REVIEWER 88/19 K.M.C.

SIG. OF STR. REVIEWER

CERTIFICATE OF THE GEO-TECHNICAL ENGINEER
IT IS CERTIFIED THAT THE COMPREHENSIVE GEO-TECHNICAL REPORT ON SOIL INVESTIGATION HAS BEEN PREPARED BY ME FOR DESIGN AND CALCULATION OF THE FOUNDATION BY ANALYZING THE SOIL SAMPLE FOR ESTIMATING THE BEARING CAPACITY OF THE SOIL ON WHICH FOUNDATION OF THE STRUCTURE WILL BE CONSTRUCTED.
I SHALL ALSO CHECK THE NATURE OF THE SOIL AFTER EXCAVATION AT SITE SO THAT FOUNDATION IS EXTENDED UP TO APPROPRIATE DEPTH THAT HAS BEEN PROPOSED IN THE GEO-TECHNICAL REPORT.

Jishnu Pal
JISHNU PAL
B.Tech (Civil), M.E. (Geo-tech),
K.M.C. Reg. No. G-7/1/32
GTER/NKDA/10/0043
22/RJSON/G-T-1/2016-17
HMC Reg. No. EGTW/CLASS-1/15

SIG. OF GEO-TECHNICAL ENGINEER

CERTIFICATE OF OWNER
WE DO HERE BY UNDERTAKE WITH FULL RESPONSIBILITY THAT -
1) WE SHALL ENGAGE L.B.A. & E.S.E DURING CONSTRUCTION.
2) WE SHALL FOLLOW THE INSTRUCTION OF L.B.A. & E.S.E DURING CONSTRUCTION OF THE BUILDING (AS PER B.S. PLAN).
3) K.M.C. AUTHORITY WILL NOT BE RESPONSIBLE FOR STRUCTURAL STABILITY OF THE BUILDING & ADJOINING STRUCTURES.
4) IF ANY SUBMITTED DOCUMENTS ARE FOUND TO BE FAKE, THE K.M.C. AUTHORITY WILL REVOKE THE SANCTION PLAN.
5) THE CONSTRUCTION OF WATER RESERVOIR AND STP WILL BE UNDER THE GUIDANCE OF L.B.A. / E.S.E. BEFORE STARTING OF BUILDING FOUNDATION WORK.

For Bengal Bonded Warehouse Limited
Signature
SIG. OF OWNER

AMENDED PLAN OF PROPOSED G+39 (155.00 MT HT.) STORIED 'MEGA COMMERCIAL PROJECT' AT PREMISES NO: 25, NETAJI SUBHAS ROAD, WARD NO - 45, BOROUGH - V, P.S. - HARE STREET, KOLKATA - 700001. UNDER KOLKATA MUNICIPAL CORPORATION. AS PER SECTION 412A OF KOLKATA MUNICIPAL CORPORATION ACT 1980. READ WITH SECTION 394 OF KMC ACT 1980 ALONG WITH RULE 26 (2a & 2b) OF KMC BUILDING RULE 2009

PREVIOUS KMC SANCTION PERMIT NO : 2023050011 DATED : 21.07.2023 FOR BUILDING HEIGHT (G+32) 127.20 MT

SANCTION DRAWING
DETAIL OF STP
STRUCTURAL ENGINEER : SPA CONSULTANTS (SPA)
34 RAMMOHAN DUTTA ROAD, KOLKATA-700020
WEST BENGAL, INDIA
Email: spa_cons@yahoo.co.in
DATE : 26.09.2024 SCALE: 1:100 DEALT: MAHUA DRG.NO-25 NS ROAD/SD/47
ARCHITECTS : MANIRAMKA AND ASSOCIATES
74 B, A. J. C. ROSE ROAD, KOLKATA-700 016
PHONE : (033) 2217 8329
E mail: maniramka.associates@gmail.com
www.maniramkaarchitect.com

SHEET 47

PARTY'S COPY

DETAIL OF STP

Plan for Water Supply arrangement including SEMILI G. & O. H. reservoirs should be submitted at the Office of the Ex-Engineer Water Supply and the sanction obtained before proceeding with the work of Water Supply any deviation may lead to disconnection/demolition.

Before starting any Construction the site must conform with the plans sanctioned and all the conditions proposed in the plan should be fulfilled.

The validity of the written permission to execute the work is subject to the above conditions.

The sanction refers to the proposed portion shown in red and the Executive Engineers makes no admission as to the correctness of the plan.

The building materials that will be stacked on Road/Passage or Foot-path beyond 3-months or after construction of G Floor, whichever is earlier may be seized forthwith by the K.M.C. at the cost and risk of the owner.

No rain water pipe should be fixed or discharged on Road or Footpath. Drainage plan should be submitted at the Borough Executive Engineer's Office and the sanction obtained before proceeding with the drainage work.

A suitable pump has to be provided i.e. pumping unfiltered water for the distribution to the flushing cisterns and urinals in the building incase unfiltered water from street main is not available.

Non Commencement of Erection/ Re-Erection within Five year will Require Fresh Application for Sanction

BUSINESS BUILDING

THE SANCTION IS VALIED UP TO 27.9.2029

DEVIATION WOULD MEAN DEMOLITION

Necessary steps should be taken for the safety of the lives of the adjoining public and private properties during construction

Approved By: *M.A. Mahalingam* No. 637
The Building Committee No. 46/44-25

CONSTRUCTION SITE SHALL BE MAINTAINED TO PREVENT MOSQUITO BREEDING AS REQUIRED U/S 496 (1) & (2) OF CMC ACT 1980. IN SUCH MANNER SO THAT ALL WATER COLLECTION & PARTICULARLY LIFT WELLS, VATS, BASEMENT CURING SITES, OPEN RECEPTACLES ETC. MUST BE EMPITED COMPLETELY TWICE A WEEK.

THE KOLKATA MUNICIPAL CORPORATION
BUILDING PERMIT
No. 27/2024 B.P. No. 100
Date 27.9.2024 Borough No. 46/44-25
A. Sumbhal
Ex. Engineer / Asst. Engineer
Br. No. 100
★ BUILDING DEPARTMENT ★

Design of all Structural Members including that of the foundation should conform to Standards specified in the National Building Code of India

Sl. No. 32/10/10/ No. 100/2024-25/ dt. 28.9.2024

KOLKATA MUNICIPAL CORPORATION
BUILDING DEPTT.
PLANS APPROVED U/R 20 (2a) & (2b) of
C.M.C. BUILDING RULES 1980 2009
B.P. No. 100/2024-25 Dt. 27.9.2024
Sumbhal *A*
Assistant Engineer Ex. Engr. (Civil)
Br. No. : 100 Br. No. : 100

