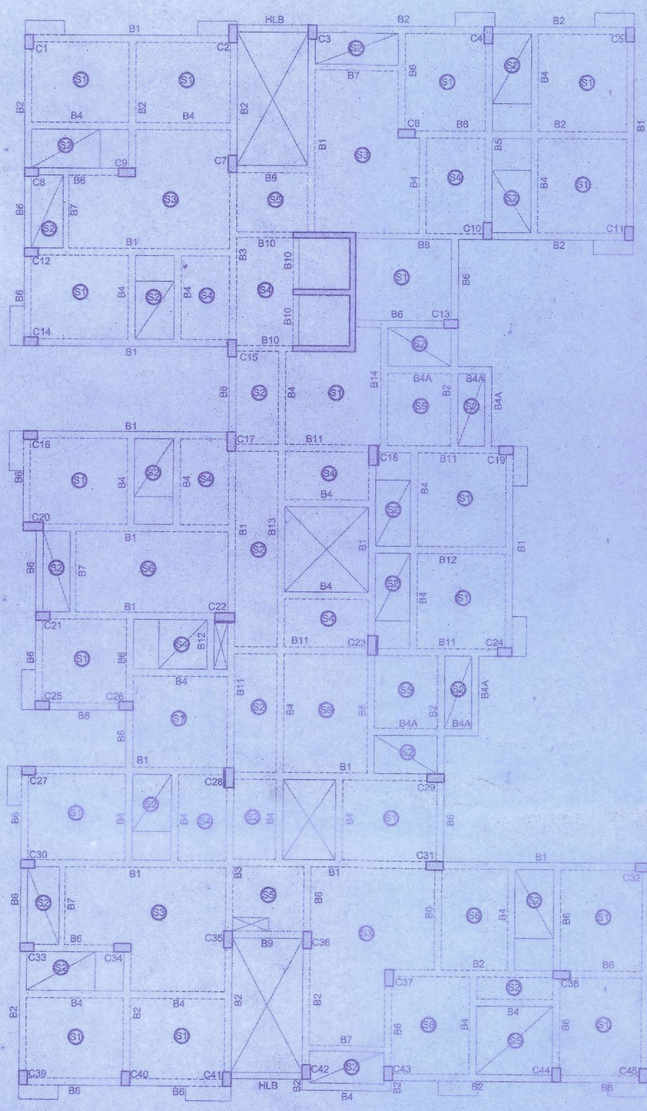
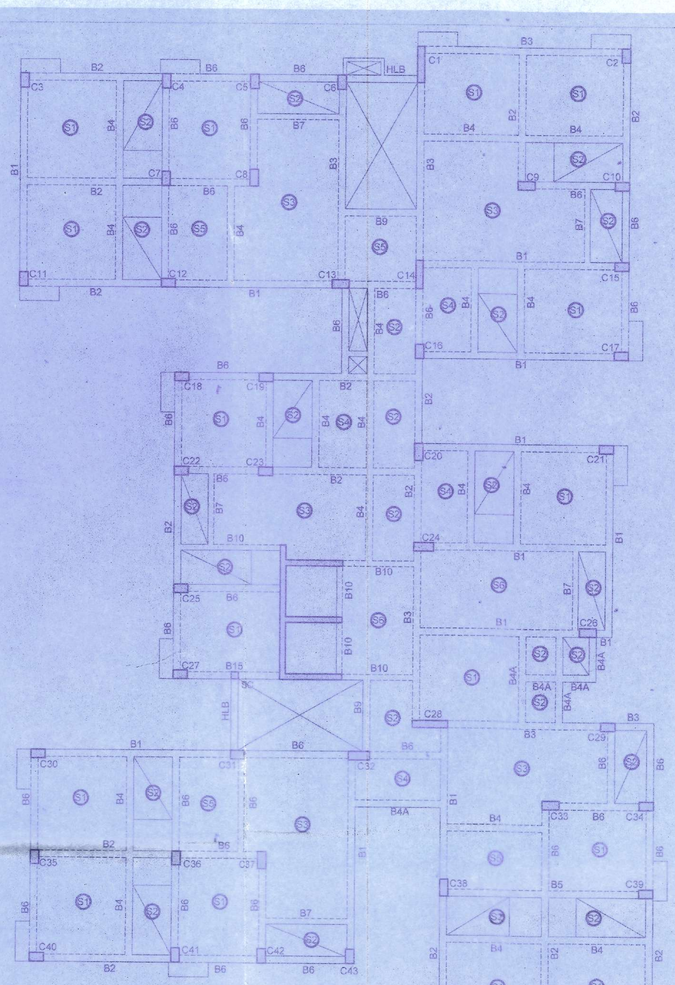
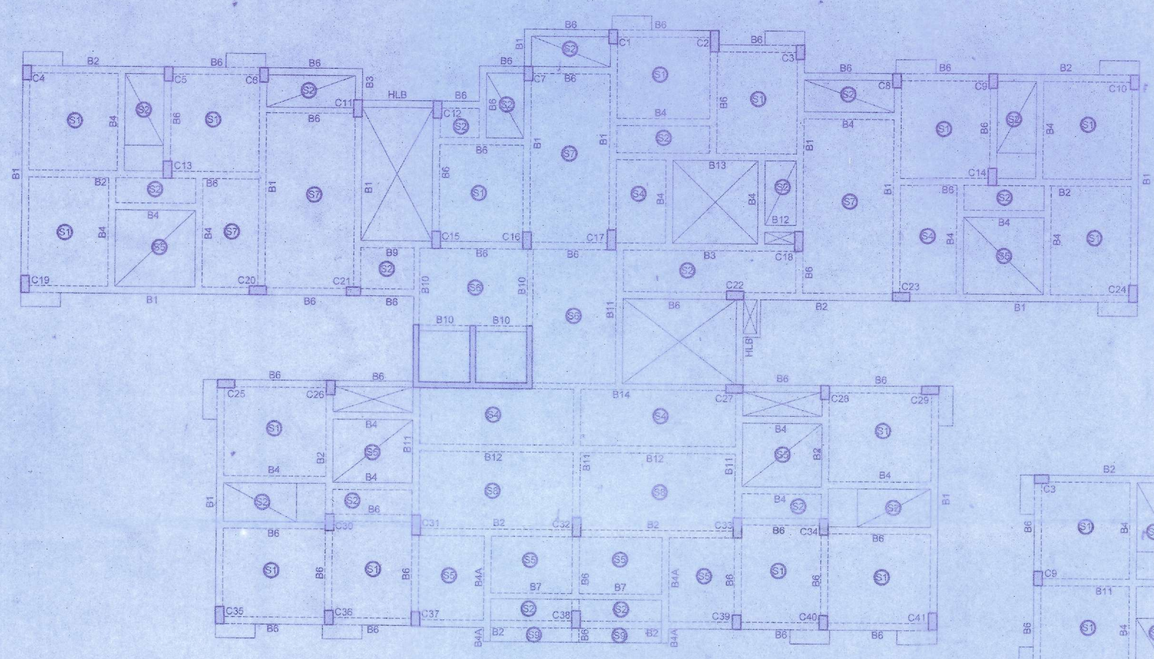


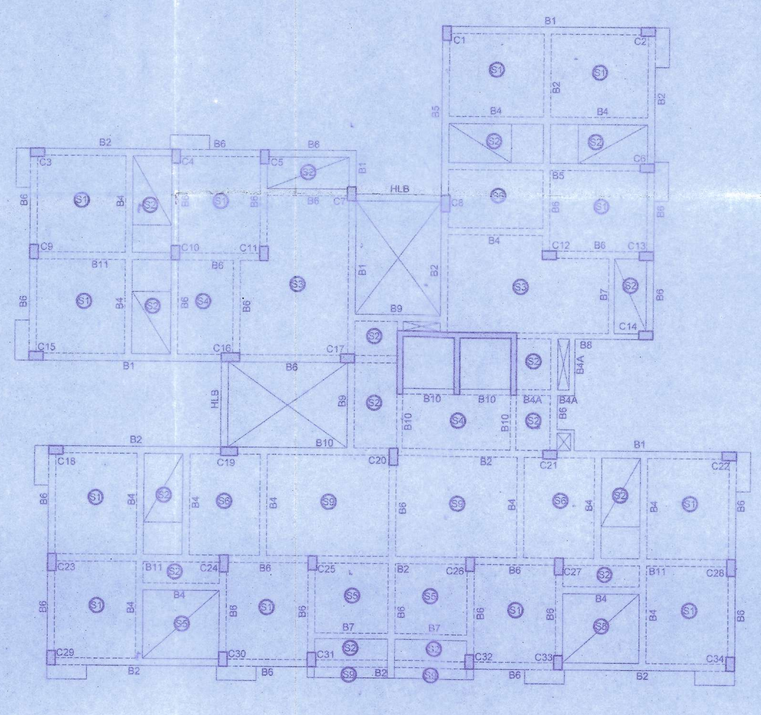
TYP. ROOF BEAM LAYOUT PLAN.(TOWER -1)



TYP. ROOF BEAM LAYOUT PLAN.(TOWER -3)



TYP. ROOF BEAM LAYOUT PLAN.(TOWER -2)



TYP. ROOF BEAM LAYOUT PLAN.(TOWER -4)

SCHEDULE OF COLUMNS FOR PODIUM

FOUNDATION TO ROOF M - 30	500 x 500, 12-16 ϕ	975 x 300, 14-20 ϕ	525 x 300, 10-20 ϕ	750 x 300, 12-20 ϕ	400 x 300, 6-20 ϕ
COL MARKED FLOOR LEVEL	12PC1.	12PC2.	23PC1.	23PC2.	23PC3.

SCHEDULE OF COLUMNS FOR TOWER - 2

5 TH FL. ROOF TO ABOVE ROOF M - 30	500 x 300, 4-20 ϕ +4-16 ϕ	600 x 300, 4-20 ϕ +6-16 ϕ	500 x 300, 8-20 ϕ	600 x 300, 10-16 ϕ	600 x 300, 10-20 ϕ	700 x 300, 4-20 ϕ +8-16 ϕ	725 x 300, 4-16 ϕ +8-12 ϕ	600 x 300, 10-20 ϕ
2ND FL. ROOF TO 5TH FL. ROOF M - 30	500 x 300, 8-16 ϕ	600 x 300, 10-16 ϕ	500 x 300, 8-20 ϕ	600 x 300, 10-16 ϕ	600 x 300, 6-20 ϕ +4-16 ϕ	700 x 300, 12-16 ϕ	725 x 300, 8-16 ϕ +4-12 ϕ	600 x 300, 4-20 ϕ +6-16 ϕ
FOUNDATION TO 2ND FL. ROOF M - 30	500 x 300, 8-16 ϕ	600 x 300, 6-25 ϕ +4-20 ϕ	500 x 300, 8-20 ϕ	600 x 300, 10-20 ϕ	600 x 300, 10-25 ϕ	700 x 300, 12-25 ϕ	725 x 300, 12-16 ϕ	600 x 300, 4-25 ϕ +6-20 ϕ
FLOOR LEVEL COL. MARKED	C1,C2,C3,C4,C5, C7,C8,C9,C10,C26, C28,C39,C36,C37, C40.	C11,C12,C15,C23, C29.	C6,C21.	C16,C22,C25,C30, C34,C35,C38,C41.	C13,C14,C19,C24.	C17,C18,C32.	C31,C33.	C20,C27.

SCHEDULE OF COLUMNS FOR TOWER - 3

5 TH. FL. ROOF TO ABOVE ROOF M - 30	500 x 300, 4-20 ϕ +4-16 ϕ	600 x 300, 4-20 ϕ +6-16 ϕ	500 x 300, 8-20 ϕ	600 x 300, 10-16 ϕ	600 x 300, 10-20 ϕ	500 x 300, 4-16 ϕ +4-12 ϕ	500 x 300, 4-25 ϕ +4-20 ϕ	800 x 300, 4-20 ϕ +6-16 ϕ	650 x 300, 6-16 ϕ +4-12 ϕ
2ND FL. ROOF TO 5TH FL. ROOF M - 30	500 x 300, 8-16 ϕ	600 x 300, 10-16 ϕ	500 x 300, 8-20 ϕ	600 x 300, 10-16 ϕ	600 x 300, 6-20 ϕ +4-16 ϕ	500 x 300, 8-16 ϕ	500 x 300, 8-20 ϕ	800 x 300, 10-16 ϕ	650 x 300, 10-16 ϕ
FOUNDATION TO 2ND FL. ROOF M - 30	500 x 300, 8-16 ϕ	600 x 300, 6-25 ϕ +4-20 ϕ	500 x 300, 8-20 ϕ	600 x 300, 10-20 ϕ	600 x 300, 10-25 ϕ	500 x 300, 8-20 ϕ	500 x 300, 4-25 ϕ +4-20 ϕ	600 x 300, 10-25 ϕ	650 x 300, 6-20 ϕ +4-16 ϕ
FLOOR LEVEL COL. MARKED	C3,C4,C5,C10,C11, C15,C17,C18,C19, C22,C23,C25,C27, C29,C30,C34,C35, C40,C41,C42,C43.	C38.	C2,C7,C12,C16, C21,C36,C39, C44,C45.	C8,C20,C33,C37.	C9,C13,C26.	C31.	C6.	C24.	C32.

NOTES :-

1) ALL DIAMETERS ARE IN MILLIMETERS.
2) GRADE OF CONC. : ALL DESIGN MIX
   i. PILE :- M-25, WITH MINIMUM CEMENT CONTENT @ 400 Kg/CUM OF CONC
   ii. PILE CAP :- M-30.
   iii. COLUMN & LIFT :- AS PER SCHEDULE.
   iv. REST ALL :- M-30 GR. ROOF TO ROOF.
3) P.C.C SHALL BE NOMINAL M20 AS PER IS: 456 - 2000.
4) TOR STEEL REINFORCEMENT SHALL CONFORM TO LATEST IS: 1786 - 1986 CODES WITH YIELD STRESS 500 MPa.
5) CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:-
   a) PILE : 40 MM ALL SIDES FROM OUTERMOST MAIN BAR.
   b) PILE CAP : 50 MM ALL SIDES FROM OUTERMOST MAIN BAR.
   c) COLUMN : 40 MM ALL SIDES FROM OUTERMOST MAIN BAR.
   d) TIE BEAM : 30 MM ALL SIDES FROM OUTERMOST MAIN BAR.
   e) FLOOR BEAM : 30 MM ALL SIDES FROM OUTERMOST MAIN BAR.
   f) SLAB : 20 MM ALL SIDES FROM OUTERMOST MAIN BAR.
   g) WAIST SLAB : 20 MM ALL SIDES FROM OUTERMOST MAIN BAR.
6) MINIMUM LAPLENGTH -
   FOR PILE : 40 Ø WITH 3 SETS LAP WELDING IN BOTH SIDES FOR A LENGTH OF 25MM.
   FOR REST - 50 Ø OF THE BAR.
7) CAPACITY OF PILE :
   VERTICAL LOAD - 60 MT & 45 MT, FOR 24 M & 18 M REPECTIVELY AS PER THE SOIL INVESTIGATION REPORT PREPARED BY M/S CATRIC TESTING & RESEARCH MADHYAMGRAM, 24 PGS (S). WB.
8) POSITIONAL ECCENTRICITY OF ANY PILE MORE THAN, 50mm, FOR SINGLE PILE, AND 75 mm. FOR GROUP OF PILES SHALL NOT BE PERMITTED.
9) THE PILE HEADS SHALL PROJECT IN TO PILE CAP FOR 50 mm. THE HEADS TO BE NEATLY FORMED TO THE REQUIRED DIA.
10) ALL TIES TO BE SPOT WELDED WITH VERTICAL REINFORCEMENT.
11) BORING OF PILE :-
   i. BORING MAY BE DONE WITH AUGAR METHOD CONSIDERING SUB - SOIL STRATA & DEPTH OF PILE.
   ii. FOR PLACING OF CONCRETE IN PILE BORES, A FUNNEL SHOULD BE USED AND METHOD OF CONCRETING SHOULD BE SUCH THAT THE ENTIRE VOLUME OF THE PILE SHAFT IS FILLED UP WITHOUT THE FORMATION OF VOIDS OR MIXING OF SOIL AND DRILLING FLUID WITHIN CONCRETE.
12) VERTICAL LOAD TESTING OF PILE SHOULD CONFIRM IS-2911 (PART-4).
13) RCC BORED CAST IN SITU PILE SHOULD CONFIRM IS-2911 (PART-1, SEC-II)
14) EXT. TOP & BOTT.
   FLOOR. BEAM- i) EXT. TOP TO BE PROVIDED AT L/4 FROM SUPPORT.
   ii) EXT. BOTT. TO BE EXTENDED L/5 FROM SUPPORT.
   SLAB - i) EXT. TOP TO BE PROVIDED IN ALL SUPPORTS FOR A LENGTH 0F L/4 FROM SUPPORT.
15) ALL DRAWINGS SHALL BE CORRELATED WITH ARCHITECTURAL DRAWINGS & ANY DISCREPANCY SHALL BE BROUGHT TO NOTICE OF THE ENGINEER BEFORE EXECUTION.
16) THIS DRAWING TO BE READ ALONGWITH SPECIFICATIONS & ALL REFERENCE DRAWING.
17) ALL THE WORKS SHALL BE DONE AS PER RELEVANT IS CODE PERTAINING TO WORK.
18) CONTRACTOR MUST VERIFY ALL DIMENSION AT SITE BEFORE EXECUTION OF WORK NO
19) DESIGN IS BASED ON AS PER IS-456, IS-875,SP16, IS-1893 & IS-2911.
20) STRUCTURAL DESIGN IS DONE FOR ALL BLOCKS (G+VIII) STORIED BUILDING ONLY.
21) SEISMIC ZONE CONSIDERED FOR DESIGN AS ZONE-III & SMRF.

CERTIFICATE OF GEO-TECHNICAL ENGINEER

I/WE DO HEREBY CERTIFY THAT THE BUILDING SITE PROPOSED FOR CONSTRUCTION ON PLOT NO. - 36 STREET-(2 NO. COLONY), WARD NO.-26 UNDER THE JURISDICTION OF MADHYAMGRAM MUNICIPALITY / NOTIFIED AREA AUTHORITY / INDUSTRIAL TOWNSHIP AUTHORITY HAS BEEN VISITED BY ME/US AND ALL THE DESIGNS, DRAWING, SOIL TEST REPORT AND LOAD TEST RESULTS FOR FOUNDATION AND SUPER STRUCTURE HAVE BEEN DULY REVIEWED CONFORMING TO STIPULATIONS OF ALL RELEVANT IS CODE OF PRACTICE AND NATIONAL BUILDING CODE. AND IT IS FOUND THAT EVERYTHING IS COMPLETELY IN ORDER AND THE PROPOSED FOUNDATION AND SUPERSTRUCTURE ARE SAFE IN ALL RESPECT.

DR. SAMARESH MUKHOPADHYAY
B.C.E., ME. (Soil Mechanics)
P.H.D. (Foundation Engineering)
M.I.E., F.I.C.E. (London)
Consulting Geotechnical Engineering

CERTIFICATE OF ARCHITECT

I/WE DO HEREBY CERTIFY THAT PLANS, ELEVATION, & SECTIONS AND OTHER STRUCTURAL DETAILS OF THE PROPOSED BUILDING ON PLOT NO. - 36 STREET-(2 NO. COLONY), WARD NO.-26 UNDER THE JURISDICTION OF MADHYAMGRAM MUNICIPALITY / NOTIFIED AREA AUTHORITY / INDUSTRIAL TOWNSHIP AUTHORITY HAVE BEEN PREPARED IN CONFORMITY WITH ALL RELEVANT PROVISIONS UNDER THE WEST BENGAL MUNICIPAL (BUILDING) RULES 2007. THIS IS ALSO TO CERTIFY THAT ALL RELEVANT NO OBJECTION CERTIFICATE FROM THE RESPECTIVE AUTHORITIES SUCH AS, FIRE & EMERGENCY SERVICES DEPARTMENT, AIRPORT AUTHORITY, POLLUTION CONTROL BOARD, TELECOMMUNICATION DEPARTMENT ETC. AS APPLICABLE IN THIS REGARD, ARE ALSO ENCLOSED WITH THE APPLICATION FOR SEEKING APPROVAL OF THE PLAN TO CONSTRUCT/RECONSTRUCT / ADDITION TO / ALTERATION OF THE BUILDING ON THE SAID PLOT.

Sankha Subhra Sengupta Roy
B. Arch (Cal), PGDM
CA Registration Number
(CA/08[illegible]

CERTIFICATE OF STRUCTURAL ENGINEER

I/WE HEREBY CERTIFY THAT THE FOUNDATION & SUPERSTRUCTURE OF THE BUILDING PROPOSED FOR CONSTRUCTION ON PLOT NO. - 36 STREET-(2 NO. COLONY), WARD NO.-26 UNDER THE JURISDICTION OF MADHYAMGRAM MUNICIPALITY / NOTIFIED AREA AUTHORITY / INDUSTRIAL TOWNSHIP AUTHORITY HAVE BEEN PERSONALLY INSPECTED AND SO DESIGNED BY ME/US WILL MAKE SUCH FOUNDATION & SUPER STRUCTURE SAFE IN ALL RESPECT INCLUDING THE CONSIDERATION OF BEARING CAPACITY & SETTLEMENT OF SOIL & OTHER CONDITIONS. IF ANY, CONFORMING TO ALL STIPULATIONS OF ALL RELEVENT IS CODE OF PRACTICE AND NATIONAL BUILDING CODE.

MANI SANKAR CHATTERJEE
E.S.E. NO.-205/1
K.M.C

CERTIFICATE OF STRUCTURAL REVIEWER

I/WE HEREBY CERTIFY THAT THE BUILDING SITE PROPOSED FOR CONSTRUCTION ON PLOT NO. - 36 STREET-(2 NO. COLONY), WARD NO.-26 UNDER THE JURISDICTION OF MADHYAMGRAM MUNICIPALITY / NOTIFIED AREA AUTHORITY / INDUSTRIAL TOWNSHIP AUTHORITY HAVE BEEN VISITED BY ME/US & ALL THE DESIGNS, DRAWING SHEET NO. 1 TO 5 SOIL TEST REPORT & LOAD TEST RESULTS FOR FOUNDATION & STRUCTURE HAVE BEEN DULY REVIEWED CONFORMING TO STIPULATIONS OF ALL LATEST RELEVANT IS CODE OF PRACTICE AND NATIONAL BUILDING CODE & IT IS FOUND THAT EVERYTHING IS COMPLETELY IN ORDER & THE PROPOSED FOUNDATION AND SUPER STRUCTURE SAFE IN ALL RESPECT.

MADHYAMGRAM MUNICIPALITY
Nk th 24-Pgs.

Rupak Kumar Banerjee
RUPAK KUMAR BANERJEE
B.C.E., M.E.M.I.E., M.I.G.S.
CHARTERED ENGINEER
STRUCTURAL REVIEWER
ESR-(I) 144/2
(M) 9830148393

CERTIFICATE OF OWNER

CERTIFIED THAT I SHALL NOT ON ALATER DATE MAKE ANY ADDITION OR ALTERATION TO THIS PLAN. CERTIFIED THAT I HAVE GONE THROUGH THE RULES FOR BAR AS AT MUNICIPALITY AND ALSO UNDER TAKE TO ABIDE BY THOSE RULES DURING & AFTER THE CONSTRUCTION OF THE BUILDING.

Bengal Ideal Homemaker & Associates Pvt. Ltd.
Managing Director

POROSPATHOR REALCON PVT. LTD.
Director

TARAMOYEE CONSTRUCTION
Partner

Sima Sur Roy
Supravo Sur Roy

STRUCTURAL CONSULTANT
ENGINEERS FORUM
60/40/1, H. P. DUTTA LANE (GOLF GARDEN)
KOLKATA - 33
PHONE - 3566-7944 / 9874581607
email : engg_forum2005@yahoo.co.in

ARCHITECT:
C.A. CONSTRUCTION
(A GROUP OF CIVIL ENGINEERS)
ARCHITECT.ENGINEERS.CONSULTANTS.INTERIOR DESIGNERS.
52+53,MADHYAMGRAM MUNICIPAL MARKET COMPLEX
KOLKATA-700129
PH. 033-2538-8009 (OFF.)

PROJECT:-

PROPOSED PLAN OF G+VIII STORIED RESIDENTIAL BUILDING OWNED BY BENGAL IDEAL HOME MAKER & ASSOCIATES PVT. LTD. & ORS DIRECTOR:- SUSANTA SUR ROY, SIMA SUR ROY, SUPRAVO SUR ROY & POROSHPATHOR REALCON PVT. LTD. CO. & TARAMOYEE CONSTRUCTION AT CORRESPONDING TO MOUZA - GANGANAGAR, J.L. NO :- 49, R.S./L.R. DAG NO.-350,351,[illegible] L.R. KHATIAN NO.-1015,1016,1024 -1026,1037,1048,1046,1047,1083 & 1084, 11/0, WARD NO.-26, HOLDING NO. - 36, (ID:- 29899), 2NO. COLONY, P.S. - NARAYANPUR, DISTRICT:- NORTH 24 PGS. UNDER MADHYAMGRAM MUNICIPALITY.

TITLE : SANCTION DRAWING (STRUCTURE)

JOB NO. : 01/2023-2024

DRG. NO. : EF/S/04

DRAWN BY : KARTICK

SCALE : 1:100,1:25.

DATE : 07.06.2023