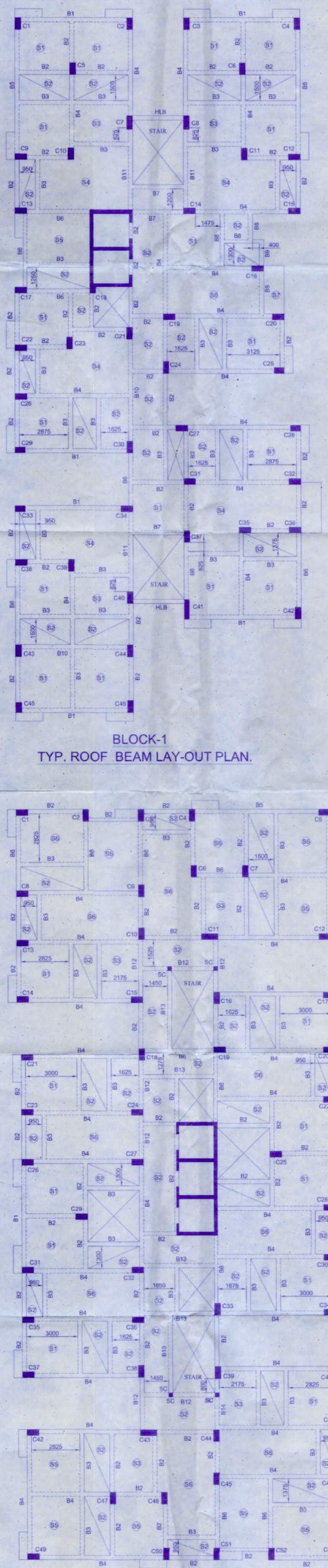
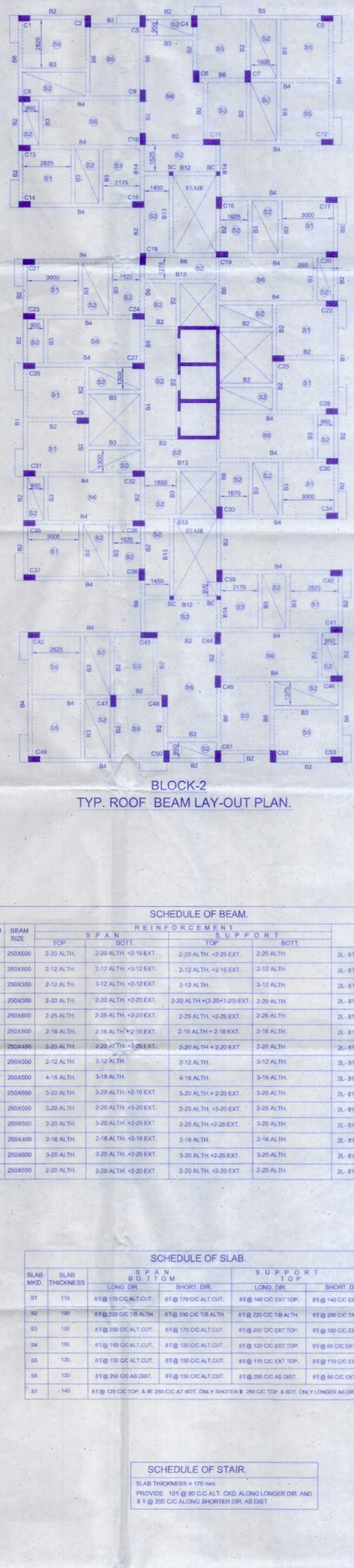


BLOCK-1

TYP. ROOF BEAM LAY-OUT PLAN.



BLOCK-2

TYP. ROOF BEAM LAY-OUT PLAN.

BLOCK-3

TYP. ROOF BEAM LAY-OUT PLAN.

SCHEDULE OF BEAM.

BEAM MKD.	BEAM SIZE	REINFORCEMENT SPAN TOP	SPAN BOTT.	SUPPORT TOP	SUPPORT BOTT.	STIRRUPS
B1	250X500	2-20 ALTH.	2-20 ALTH. +2-16 EXT.	2-20 ALTH. +2-25 EXT.	2-20 ALTH.	2L- 8T @ 100 TO 250 C/C.
B2	250X500	2-12 ALTH.	2-12 ALTH. +3-12 EXT.	2-12 ALTH. +2-16 EXT.	2-12 ALTH.	2L- 8T @ 250 C/C.
B3	250X350	2-12 ALTH.	3-12 ALTH. +2-12 EXT.	2-12 ALTH.	3-12 ALTH.	2L- 8T @ 250 C/C.
B4	250X500	2-20 ALTH.	2-20 ALTH. +2-20 EXT.	2-20 ALTH.+(2-25+1-20) EXT.	2-20 ALTH.	2L- 8T @ 100 TO 150 C/C.
B5	250X600	2-25 ALTH.	2-25 ALTH. +2-20 EXT.	2-25 ALTH. +2-25 EXT.	2-25 ALTH.	2L- 8T @ 100 TO 250 C/C.
B6	250X500	2-16 ALTH.	2-16 ALTH. +2-16 EXT.	2-16 ALTH.+ 2-16 EXT.	2-16 ALTH.	2L- 8T @ 150 TO 250 C/C.
B7	250X450	2-20 ALTH.	2-20 ALTH. +2-20 EXT.	2-20 ALTH.+ 2-20 EXT.	2-20 ALTH.	2L- 8T @ 100 TO 200 C/C.
B8	250X500	2-12 ALTH.	3-12 ALTH.	2-12 ALTH.	3-12 ALTH.	2L- 8T @ 250 C/C.
B9	250X500	4-16 ALTH.	3-16 ALTH.	4-16 ALTH.	3-16 ALTH.	2L- 8T @ 150 C/C.
B10	250X600	3-20 ALTH.	3-20 ALTH. +2-16 EXT.	3-20 ALTH.+ 2-20 EXT.	3-20 ALTH.	2L- 8T @ 75 TO 250 C/C.
B11	250X500	2-20 ALTH.	2-20 ALTH. +3-20 EXT.	2-20 ALTH. +3-20 EXT.	2-20 ALTH.	2L- 8T @ 100 C/C.
B12	250X500	3-20 ALTH.	3-20 ALTH. +2-25 EXT.	3-20 ALTH.+2-25 EXT.	3-20 ALTH.	2L- 8T @ 75 C/C.
B13	250X400	2-16 ALTH.	2-16 ALTH. +2-16 EXT.	2-16 ALTH.	2-16 ALTH.	2L- 8T @ 250 C/C.
B14	250X600	3-20 ALTH.	3-20 ALTH. +2-25 EXT.	3-20 ALTH.+2-25 EXT.	3-20 ALTH.	2L- 8T @ 75 C/C.
HLB	250X500	2-20 ALTH.	2-20 ALTH. +2-20 EXT.	2-20 ALTH. +2-20 EXT.	2-20 ALTH.	2L- 8T @75 TO 250 C/C.

SCHEDULE OF SLAB.

SLAB MKD.	SLAB THICKNESS	SPAN BOTTOM LONG. DIR.	SPAN BOTTOM SHORT. DIR.	SUPPORT TOP LONG. DIR.	SUPPORT TOP SHORT. DIR.
S1	110	8T@ 170 C/C ALT.CUT.	8T@ 170 C/C ALT.CUT.	8T@ 140 C/C EXT TOP.	8T@ 140 C/C EXT TOP.
S2	100	8T@ 220 C/C T/B ALTH.	8T@ 200 C/C T/B ALTH.	8T@ 220 C/C T/B ALTH.	8T@ 200 C/C T/B ALTH.
S3	100	8T@ 200 C/C ALT.CUT.	8T@ 170 C/C ALT.CUT.	8T@ 200 C/C EXT TOP.	8T@ 150 C/C EXT TOP.
S4	165	8T@ 150 C/C ALT.CUT.	8T@ 120 C/C ALT.CUT.	8T@ 120 C/C EXT TOP.	8T@ 90 C/C EXT TOP.
S5	120	8T@ 150 C/C ALT.CUT.	8T@ 150 C/C ALT.CUT.	8T@ 110 C/C EXT TOP.	8T@ 110 C/C EXT TOP.
S6	120	8T@ 250 C/C AS DIST.	8T@ 130 C/C ALT.CUT.	8T@ 250 C/C AS DIST.	8T@ 90 C/C EXT TOP.
S7	140	8T@ 125 C/C TOP. & 8T 250 C/C AT BOT. ONLY SHOTER 8T 250 C/C TOP. & BOT. ONLY LONGER AS DIST.			

SCHEDULE OF STAIR.

SLAB THICKNESS = 175 mm.

PROVIDE 10T @ 90 C/C ALT. CKD. ALONG LONGER DIR. AND 8 T @ 200 C/C ALONG SHORTER DIR. AS DIST.

NOTES :-

1) ALL DIAMETERS ARE IN MILLIMETERS.
2) GRADE OF CONC. : ALL DESIGN MIX
   i. PILE :- M-20, WITH MINIMUM CEMENT CONTENT @ 400 Kg/CUM OF CONC.
   ii. PILE CAP :- M-25.
   iii. COLUMN & LIFT :- AS PER SCHEDULE.
   iv. REST ALL :- M-25 GR. ROOF TO 5TH. ROOF.
3) P.C.C SHALL BE NOMINAL 1:2:4 (M15) 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) MAXIMUM LOAD ON EACH PILE :
   VERTICAL LOAD - 45 MT.
   AS PER THE SOIL INVESTIGATION REPORT PREPARED BY M/S GEOTEST ENGINEERS ENGINEERS PVT LTD.
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 DRILLINGFLUID 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 OF L/4 FROM SUPPORT.
   ii) BOTTOM ROD TO BE ALT. CUT. AT L/5 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 CLAIM WILL BE ENTERTAINED. CONTRACTOR SHALL BE RESPONSIBAL TO PROPER LINE AND LEVEL OF STRUCTURE.
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+VII) STORIED BUILDING ONLY.
21) SEISMIC ZONE CONSIDERED FOR DESIGN AS ZONE-III & OMRF.

CERTIFICATE OF OWNER

CERTIFIED THAT I SHALL NOT ON A LATER DATE MAKE ANY ADDITION OR ALTERATION TO THIS PLAN SO AS TO CONVERT IT FOR MY USE OR ALLOW IT TO BE USED FOR SEPARATE FLATS/FLOOR/STOREY.

CERTIFIED THAT I HAVE GONE THROUGH THE BUILDING RULES FOR N.D.D.M. & ALSO UNDERTAKE TO ABIDE BY THOSE RULES DURING & AFTER CONSTRUCTION OF BUILDING. CERTIFIED THAT I ALSO UNDERTAKE TO REPORT OF COMMENCEMENT BEFORE SEVEN DAYS AND COMPLETION WOULD BE REPORTED WITHIN 30 DAYS. I ALSO UNDERTAKE TO REPORT THAT THERE IS NO COURT CASE OR ANY COMPLAINS FROM ANY CORNER IN RESPECT OF MY PROPERTY AS PER PLAN. S.D.D.M. WILL NOT BE LIABLE FOR ANY TYPE OF DISPUTE IF ARISES IN FUTURE FURTHER THERE IS NO TENANT IN THE AFORESAID PREMISES.

(a Constituted Attorney of :
1) Manik Chandra Bose
2) Malay Kumar Bose
3) Arabinda Bose
4) Dipak Bose
5) Goutam Bose
6) Asit Bose
7) Supriya Sarkar (Bose)

For NATURAL MANAVSTHAL (P) LTD

Director

SIGNATURE OF OWNER.

CERTIFICATE OF BUILDING PLAN

I/WE DO HEREBY CERTIFY THAT PLANS ELEVATIONS AND SECTIONS AND OTHER STRUCTURAL DETAILS OF THE PROPOSED BUILDING ON HOLDING NO :267 (228), NORTH NILACHAL ROAD ; MOUZA - BISARPARA ; J.L. NO : 05 ; R.S. PLOT NO.- 268, 269,270, 271, 272, 273, 307 ; L.R. KHATIAN NO : 1327, 1328, 1329, 1330 ; P.S.- AIRPORT UNDER NORTH DUM DUM MUNICIPALITY ; WARD NO.- 33 ; DIST.- 24 PGS (N). HAVE BEEN PREPARED IN CONFORMITY WITH ALL RELEVANT PROVISION UNDER THE WEST BENGAL MUNICIPALITY(BUILDING) RULES,2007.THIS ALSO TO CERTIFY THAT ALL RELEVANT 'NO OBJECTION' CERTIFICATES FROM THE RESPECTIVE AUTHORITIES SUCH AS FIRE AND EMERGENCY SERVICES DEPARTMENT,AIRPORT AUTHORITY, TELECOMMUNICATION DEPARTMENT ETC. AS APPLICABLE IN THIS REGARD, ARE ALSO ENCLOSED WITH THE APPLICATION FOR SEEKING APPROVAL OF THE PLAN TO CONSTRUCT/ADDITION TO/ALTERATION OF THE BUILDING ON THE SAID PLOT.

Rajkumar Agarwal
Architect
Member of Council of Architecture CA/94/12940

SIG. OF LICENSED BUILDING SURVEYOR/ARCHITECT

CERTIFICATE OF STRUCTURAL STABILITY

I/WE HEREBY CERTIFY THAT THE FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING PROPOSED FOR CONSTRUCTION ON HOLDING NO : 267 (228), NORTH NILACHAL ROAD ; MOUZA - BISARPARA ; J.L. NO : 05 ; R.S. PLOT NO.- 268, 269,270, 271, 272, 273, 307 ; L.R. KHATIAN NO : 1327, 1328, 1329, 1330 ; P.S.- AIRPORT UNDER NORTH DUM DUM MUNICIPALITY ; WARD NO.- 33 ; DIST.- 24 PGS (N). HAVE BEEN PERSONALLY INSPECTED AND SO DESIGNED BY ME/US WILL MAKE SUCH FOUNDATION AND SUPER STRUCTURE SAFE IN ALL RESPECT INCLUDING THE CONSIDERATION OF BEARING CAPACITY AND SETTLEMENT OF SOIL AND OTHER CONDITIONS, IF ANY CONFORMING TO ALL STIPULATIONS OF ALL RELEVANT IS CODE OF PRACTICE AND NATIONAL BUILDING CODE.

ASHIM KUMAR DAS
Structural Consultant
M.C.E.M.I.E.C.E.M./C.S.A.S.C.E.
PALLOW IASstructE.
M - 140550-5
RSE : 1/90 (K.M.C.)

SIG. OF STRUCTURAL ENGINEER

ALOK ROY
Empanelled Geotechnical Engineer
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SIG. OF GEOTECHNICAL ENGINEER

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ARCHITECT: RAJ AGRAWAL & ASSOCIATES
ARCHITECTS,PLANNERS AND INTERIOR DESIGNERS.
8B, ROYD STREET (2ND FLOOR), KOLKATA-16.

PROJECT:- PROPOSED G+V STORIED RESIDENTIAL BUILDING AT HOLDING NO : 267 (228), NORTH NILACHAL ROAD ; MOUZA -BISARPARA ; J.L. NO : 05 ; R.S. PLOT NO. - 268, 269, 270, 271, 272, 273, 307 ; L.R. KHATIAN NO :1327, 1328, 1329, 1330 ; P.S.- AIRPORT UNDER NORTH DUM DUM MUICIPALITY , WARD NO.-33 ; DIST.- 24 PGS (N).

TITLE : SANCTION DRAWING (STRUCTURE)

JOB NO. : 02/2018-2019

DRG. NO. : EF/S/03

DRAWN BY : HEMANTA

SCALE : 1:100,1:25

DATE : 25.08.20