PILE CAP SCHEDULE GRADE OF CONCRETE - M30, FE-500						
TYPE	SIZE	DEPTH	REINFORCEMENT IN SHORTER DIRECTION		REINFORCEMENT IN LONGER DIRECTION		SIDA REINF.
			TOP REINF.	BOTT. REINF.	TOP REINF.	BOTT. REINF.	
2P	AS SHOWN	1000	8-12 TOR	8-20 TOR	12 TOR Ø150 C/C	20 TOR Ø100 C/C	12Ø@ Ø200C/C
3P	AS SHOWN	1200	12TOR Ø150 C/C	20 TOR Ø100 C/C	12 TOR Ø150 C/C	20 TOR Ø100 C/C	12 TOR Ø200C/C
4P	AS SHOWN	1200	12 TOR Ø150 C/C	20 TOR Ø150 C/C	12 TOR Ø150 C/C	20 TOR Ø150 C/C	
5P	AS SHOWN	1200	12 TOR Ø150 C/C	20 TOR Ø100 C/C	12 TOR Ø150 C/C	20 TOR Ø100 C/C	
12P	AS SHOWN	1500	16 TOR Ø150 C/C	20 TOR Ø100 C/C	16 TOR Ø150 C/C	20 TOR Ø100 C/C	

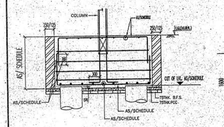
SCHEDULE AT CUT OFF LEVEL OF PILECAP
TOP OF PILE CAP (EGL (0.00)

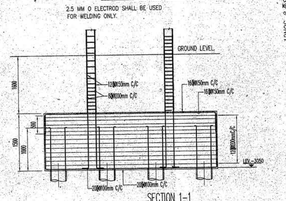
SL. NO.	PILE CAP MKD.	PILECAP DEPTH	CUT OFF LVL.
01.	2P	1000	-950 LVL.
02.	3P	1200	-1150 LVL.
03.	4P	1200	-1150 LVL.
04.	5P	1200	-1150 LVL.
05.	12P	1500	-1350

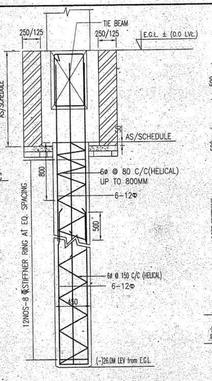
Grade of Concrete M30.
MIN CEMENT CONTENT IN CONCRETE SHALL BE = 400Kg /m3 Grade of conc.M30

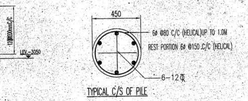
TYPE	DIA OF PILE	REINFORCEMENT	CAPACITY
	450Ø	6-12 TOR.	60 T

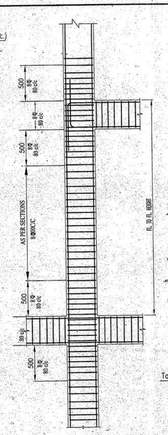
2.5 MM Ø ELECTROD SHALL BE USED FOR WELDING ONLY.

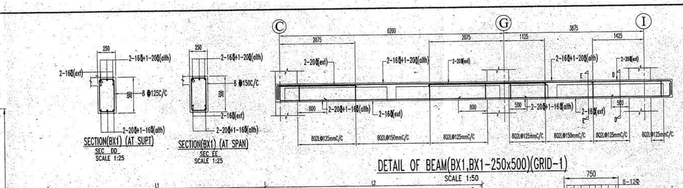

TYPICAL SECTION AT PILECAP

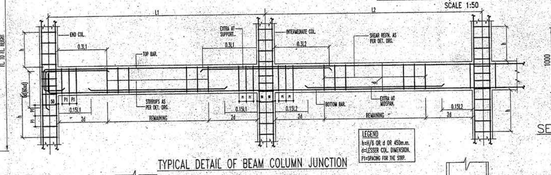

SECTION 1-1

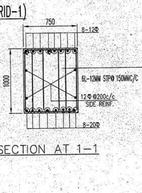

TYPICAL DETAIL OF PILE

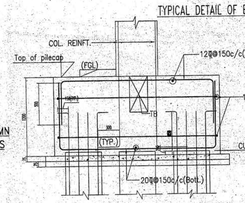

TYPICAL C/S OF PILE

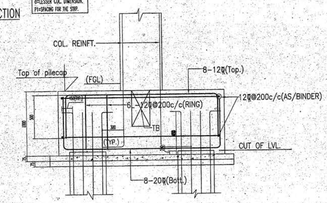

LONG SECTION OF COLUMN SHOWING LINK DETAILS

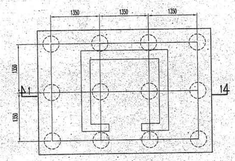

DETAIL OF BEAM(BX1,BX1-250x500)(GRID-1)

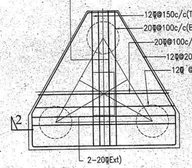

TYPICAL DETAIL OF BEAM COLUMN JUNCTION

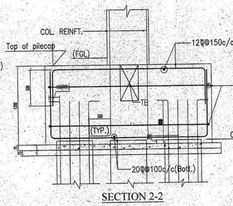

SECTION AT 1-1

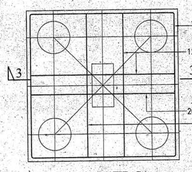

SECTION 3-3

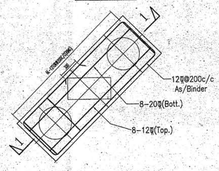

SECTION 1-1

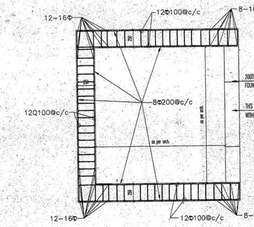

PLAN OF 12P


PILECAP MKD.-P3


SECTION 2-2


PILECAP MKD.-P4


PILECAP MKD.-P2


DETAIL ABOVE PLINTH LEVEL(LIFT)

SCHEDULE OF COLUMN :-(M30 AND FE 500)

COLUMN NOS.	SIZE (MMxMM)	FDN. TO 2nd. FL	2ND.FL ROOF TO 4TH.FL	4TH.FL ROOF TO ROOF.	STIRRUPS
C1	300x600	6-20Ø+6-16Ø	12-16Ø	12-16Ø	8mm @100mm C/C AT HAUNCH & square @ 300 C/C NEAR junctions.
C2	300x600	12-20Ø	4-20Ø+8-16Ø	12-16Ø	
C3	300x600	8-20Ø+8-16Ø	12-16Ø	12-16Ø	
C4	300x600	6-20Ø+6-16Ø	12-16Ø	12-16Ø	
C5	300x750	6-20Ø+6-16Ø	4-20Ø+10-16Ø	14-16Ø	
C6	300x600	4-25Ø+8-16Ø	12-20Ø	12-16Ø	
C7	300x600	6-20Ø+6-16Ø	12-16Ø	12-16Ø	
C8	300x750	6-25Ø+8-16Ø	14-20Ø	4-20Ø+10-16Ø	
C9	300x800	16-20Ø	6-20Ø+10-16Ø	6-20Ø+12-16Ø	
C10	300x600	6-20Ø+6-16Ø	12-16Ø	12-16Ø	
C11	300x750	6-25Ø+8-16Ø	14-20Ø	4-20Ø+10-16Ø	
C12	300x750	6-25Ø+8-16Ø	14-20Ø	4-20Ø+10-16Ø	
C13	300x650	6-20Ø+8-16Ø	12-16Ø	12-16Ø	
C14	300x750	6-25Ø+10-20Ø	14-20Ø	14-16Ø	
C15	300x750	6-25Ø+8-20Ø	14-20Ø	4-20Ø+10-16Ø	
C16	300x600	12-20Ø	6-20Ø+6-16Ø	12-16Ø	
C17	300x750	6-25Ø+8-20Ø	14-20Ø	4-20Ø+10-16Ø	
C18	300x600	6-20Ø+6-16Ø	12-16Ø	12-16Ø	
C19	300x750	6-25Ø+8-20Ø	14-20Ø	14-16Ø	
C20	300x750	6-25Ø+8-20Ø	14-20Ø	4-20Ø+10-16Ø	
C21	300x600	6-20Ø+6-16Ø	12-16Ø	12-16Ø	
C22	300x600	6-20Ø+6-16Ø	12-16Ø	12-16Ø	
C23	300x600	6-20Ø+6-16Ø	12-16Ø	12-16Ø	
C24	300x600	6-20Ø+6-16Ø	12-16Ø	12-16Ø	
C25	300x600	6-20Ø+6-16Ø	12-16Ø	12-16Ø	
C26	300x600	6-20Ø+6-16Ø	12-16Ø	12-16Ø	
C27	300x600	6-20Ø+6-16Ø	12-16Ø	12-16Ø	

SCHEDULE OF SLAB (S1)
SLAB THICKNESS AS MENTIONED :- 115 MM (M25 AND FE 500)
(ALONG SHORTER DIRECTION)

SUPPORT	10mm@ 150mm c/c at top of support & extended upto L/3 from beam.
SPAN	10mm@ 165mm c/c at span & alternately curtained at L/4 from beam

SLAB THICKNESS AS MENTIONED :-115 MM (M25 AND FE 500)
(ALONG LONGER DIRECTION)

SUPPORT	10mm@ 165mm c/c at top of support & extended upto L/3 from beam.
SPAN	10mm@ 175mm c/c at span & alternately curtained at L/4 from beam

SCHEDULE OF SLAB (S2)
SLAB THICKNESS AS MENTIONED :- 125 MM (M25 AND FE 500)
(ALONG SHORTER DIRECTION)

SUPPORT	10mm@ 125mm c/c at top of support L/3 from beam.
SPAN	10mm@ 150mm c/c at span & alternately curtained at L/4 from beam

SLAB THICKNESS AS MENTIONED :-125 MM (M25 AND FE 500)
(ALONG LONGER DIRECTION)

SUPPORT	10mm@ 135mm c/c at top of support L/3 from beam.
SPAN	10mm@ 165mm c/c at span & alternately curtained at L/4 from beam

SCHEDULE OF SLAB (S3)
SLAB THICKNESS AS MENTIONED :- 150 MM (M25 AND FE 500)
(ALONG SHORTER DIRECTION)

SUPPORT	10mm@ 115mm c/c at top of support L/3 from beam.
SPAN	10mm@ 125mm c/c at span & alternately curtained at L/4 from beam

SLAB THICKNESS AS MENTIONED :-150 MM (M25 AND FE 500)
(ALONG LONGER DIRECTION)

SUPPORT	10mm@ 125mm c/c at top of support L/3 from beam.
SPAN	10mm@ 135mm c/c at span & alternately curtained at L/4 from beam

SCHEDULE OF SLAB (S4)
SLAB THICKNESS AS MENTIONED :- 115 MM (M25 AND FE 500)
(ALONG SHORTER DIRECTION)

SUPPORT	10mm@ 115mm c/c at top of support although
SPAN	10mm@ 125mm c/c at span although

SLAB THICKNESS AS MENTIONED :-115 MM (M25 AND FE 500)
(ALONG LONGER DIRECTION)

SUPPORT	10mm@ 150mm c/c at top of support L/3 from beam.
SPAN	10mm@ 165mm c/c at span & alternately curtained at L/4 from beam

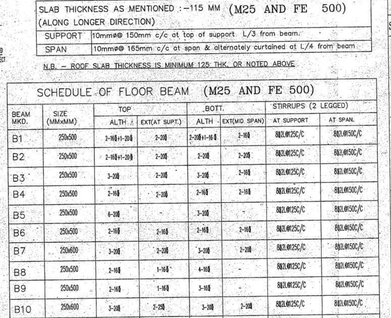
N.B. - ROOF SLAB THICKNESS IS MINIMUM 125 THK. OR NOTED ABOVE.

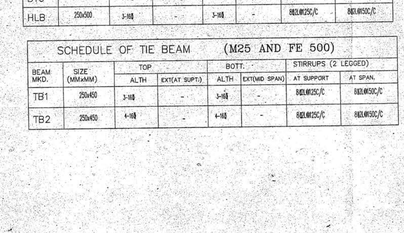
SCHEDULE OF FLOOR BEAM (M25 AND FE 500)

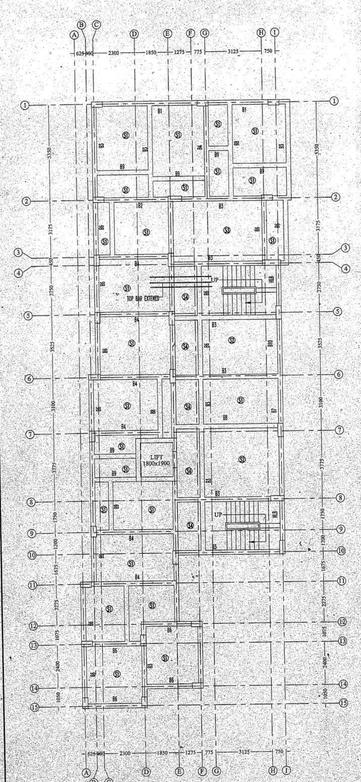
BEAM MKD.	SIZE (MMxMM)	TOP ALTH.	TOP EXT(AT SUPT.)	BOTT. ALTH.	BOTT. EXT(MID SPAN)	STIRRUPS (2 LEGGED) AT SUPPORT	STIRRUPS (2 LEGGED) AT SPAN.
B1	250x500	2-16Ø+1-20Ø	2-20Ø	2-20Ø+1-16Ø	2-16Ø	8Ø2L@125C/C	8Ø2L@150C/C
B2	250x500	2-16Ø+1-20Ø	2-20Ø	2-20Ø	2-20Ø	8Ø2L@125C/C	8Ø2L@150C/C
B3	250x500	2-20Ø	2-20Ø	3-20Ø	2-16Ø	8Ø2L@125C/C	8Ø2L@150C/C
B4	250x500	2-16Ø	2-20Ø	2-16Ø	2-16Ø	8Ø2L@125C/C	8Ø2L@150C/C
B5	250x500	4-20Ø	-	3-20Ø	-	8Ø2L@125C/C	8Ø2L@150C/C
B6	250x500	2-16Ø	2-16Ø	2-16Ø	2-16Ø	8Ø2L@125C/C	8Ø2L@150C/C
B7	250x600	3-20Ø	2-20Ø	3-20Ø	2-20Ø	8Ø2L@125C/C	8Ø2L@150C/C
B8	250x500	2-16Ø	1-16Ø	4-16Ø	-	8Ø2L@125C/C	8Ø2L@150C/C
B9	250x500	2-16Ø	1-16Ø	3-16Ø	-	8Ø2L@125C/C	8Ø2L@150C/C
B10	250x600	3-20Ø	2-20Ø	3-20Ø	2-20Ø	8Ø2L@125C/C	8Ø2L@150C/C
HLB	250x500	3-16Ø	-	3-16Ø	-	8Ø2L@125C/C	8Ø2L@150C/C

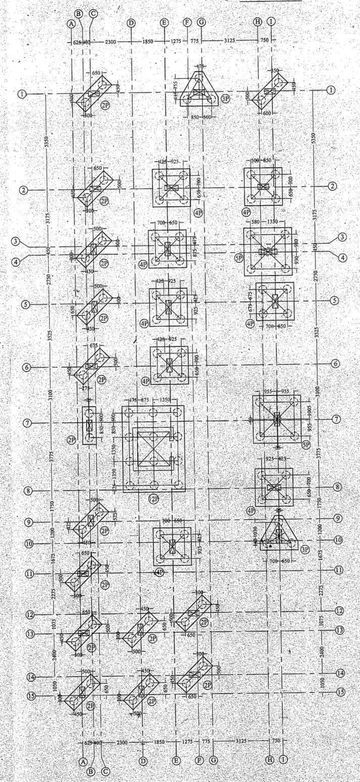
SCHEDULE OF TIE BEAM (M25 AND FE 500)

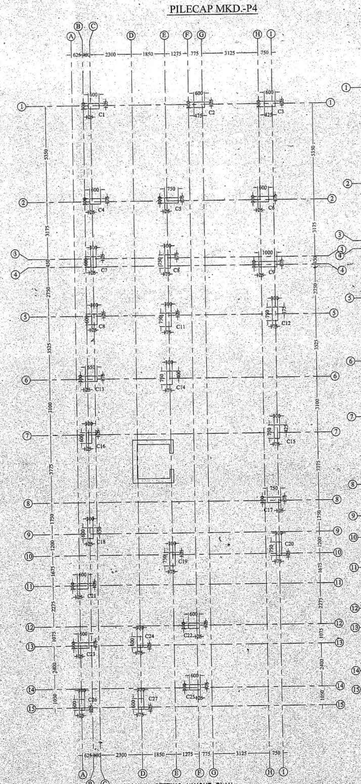
BEAM MKD.	SIZE (MMxMM)	TOP ALTH	TOP EXT(AT SUPT.)	BOTT. ALTH	BOTT. EXT(MID SPAN)	STIRRUPS (2 LEGGED) AT SUPPORT	STIRRUPS (2 LEGGED) AT SPAN.
TB1	250x450	3-16Ø	-	3-16Ø	-	8Ø2L@125C/C	8Ø2L@150C/C
TB2	250x450	4-16Ø	-	4-16Ø	-	8Ø2L@125C/C	8Ø2L@150C/C

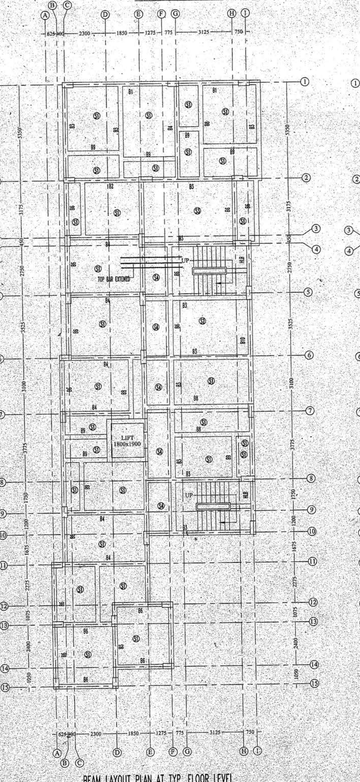

TYP.DET.OF SECOND FLIGHT SECTION

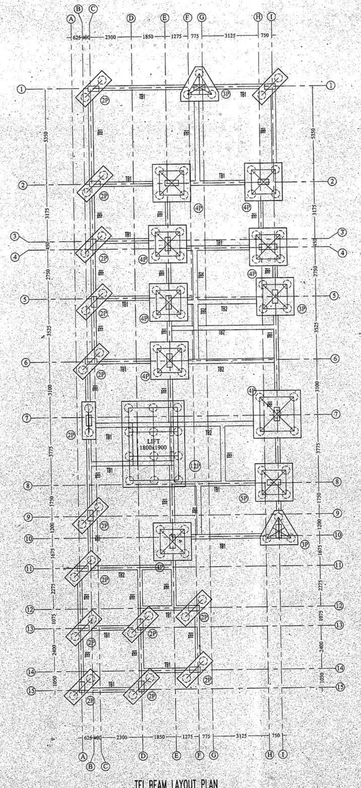

TYP.DET.OF FIRST FLIGHT SECTION


BEAM LAYOUT PLAN AT 1ST & 2ND FLOOR LEVEL


PILE LAYOUT PLAN


COLUMN SETTING LAYOUT PLAN


BEAM LAYOUT PLAN AT TYP. FLOOR LEVEL


TEI BEAM LAYOUT PLAN

PILE NOTES

1. CAPACITY OF EACH PILE IS ASSUMED AS/SCHEDULE MT AS PER THE SOIL INVESTIGATION REPORT. THIS IS TO BE CHECKED BY CONDUCTING "ROUTINE LOAD TEST" ON WORKING PILES AS PER IS:2911 (PART-4) 1985. THE RESULTS OF THESE TESTS ARE TO BE PLOTTED AND SUBMITTED TO ARCHITECTS OR CONSULTANTS FOR FURTHER ACTION.
2. AFTER APPROVAL OF BEARING STRATA BY THE ENGINEER-IN-CHARGE SIDES OF BORES SHALL BE STABILIZED WITH BENTONITE CIRCULATION CONFORMING TO SPECIFICATION.
3. CARE SHOULD BE TAKEN WHILE LOWERING REINFORCEMENT CAGE IN TO THE BORE SUCH THAT PROPER ALIGNMENT OF BARS ARE MAINTAINED. AVOID LAP IN REINFORCING BARS. IN SPECIAL CIRCUMSTANCES WITH THE CONSENT OF ENGINEER-IN-CHARGE WELDED LAPPING CAN BE PERMITTED. IN THAT CASE, WELDED LAP LENGTH SHALL NOT BE LESS THAN 50 TIMES OF THE DIA OF BAR AND SPECIAL APPROVED ELECTRODES SHALL BE USED FOR WELDING OF Fe-500 GRADE BARS.
4. CONCRETING BELLOW WATER TO BE DONE BY USING TREMIE. CEMENT CONTENT FOR AS/SCHEDULE OF CONCRETE SHALL NOT BE LESS THAN 400 KG PER CUBIC METRE. SLUMP OF CONCRETE SHALL BE 150 MM TO 180 MM AND ALSO CONCRETE MIXING SHALL CONFORM TO TENDER SPECIFICATIONS.
5. TOLERANCES PERMISSIBLE SHALL BE AS PER TENDER SPECIFICATIONS/ I.S. SPECIFICATION.
6. THE CONTRACTOR SHALL MAINTAIN ALL THE PILING DATA ON DAY TO DAY BASIS AS PER THE PROFORMA GIVEN IN IS:2911 (PART 1/SEC-2) AND SUBMIT THESE DATA TO ARCHITECTS AT REGULAR INTERVALS.
7. THE CONTRACTOR SHOULD TAKE ADEQUATE CARE NOT TO DAMAGE ADJACENT STRUCTURES, IF ANY, WHILE PILING.
8. ALL BORES TO BE WASHED PROPERLY BEFORE CONCRETING BY MINIMUM 20 H.P. PUMP.
9. MINIMUM CLEAR COVER TO MAIN REINFORCEMENT IS AS FOLLOWS:

MEMBE	TOP	BOTTOM	SIDE
A. FOUNDATION BEAM & SLAB	50	50	50
B. COLUMN			40
C. FLOOR BEAM.	30	30	30
D. FLOOR SLAB.	20	20	20
E. PILE			50
F. PILECAP	75	75	75

TITLE- PILE FOUNDATION,COLUMN LAYOUT PLAN, TIE-BEAM, FLOOR BEAM LAYOUT PLAN SCHEDULE & SECTIONS.(BLOCK-2)

DRG. NO.	DATE	REV.	DATE	RELEASE STATUS
ST-02/03	06/02/15			SANCTION

STRUCTURAL CERTIFICATE
THE STRUCTURAL DESIGNS AND DRAWING OF BOTH FOUNDATION AND SUPER STRUCTURE OF THE BUILDING HAS BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER NATIONAL BUILDING CODE OF INDIA AND CERTIFIED THAT IT IS SAFE AND STABLE IN ALL RESPECT

SUBIR C. SANYAL
E.S.E. NO. 007
E.B.A. NO. 056
UNDER RAJPUR-SONARPUR MUNICIPALITY

SIGNATURE OF STRUCTURAL ENGINEER (E.S.E. NO. 007)

DECLARATION OF E.B.A.
I HAVE CERTIFIED ON THE PLAN ITSELF WITH FULL RESPONSIBILITY THAT BUILDING RULES 1990 AS AMMENDED FROM TIME TO TIME AND THAT THE SITE CONDITIONS INCLUDING THE ABUTTING ROAD CONFORM WITH THE PLAN AND THAT IT IS A BUILDABLE SITE AND NOT A TANK OR A FILLED UP LAND.

SIGNATURE OF E.B.A.

SIGNATURE OF OWNER

PROJECT
STRUCTURAL DRAWING FOR A REVISED SANSTION PLAN OF G +VII STORIED RESIDENTIAL BUILDING AT HOLDING NO. 13, NETAJI SUBHAS ROAD, R.S DAG NO. 38,43, WARD NO. 26, J.L NO. 85, K.H. NO.12, 311, MOUZA :- RAJPUR, P.S.- SONARPUR, DIST.- 24 PGS(S). UNDER RAJPUR SONARPUR MUNICIPALITY.

B.S. PLAN NO.- 122 / CB / 26 / 26 DATED 13-05-2014

NAME OF OWNER :- BIJAN KR. MAJUMDER & OTHERS

BLOCK - 2

DRAWN-	SCALE 1:100,1:50,1:25	
DESIGNED	DATE 06.02.15	
CHECKED-	JOB NO.	
APPROVED-		

Sanyalson Associates Consultant Pvt. Ltd.
CONSULTANT PLANNER & STRUCTURAL ENGINEERS
P-157 - KANUNGO PARK - KOLKATA-84

DWG NO. 02/03 REV.

APPROVAL OF S.A.E
OFFICE USE ONLY

APPROVED
Plan No. 2000/Rev/09/2014 Dated 17/03/2015
Valid Upto 17/03/2018
Municipal Engineer
Administrator
RAJPUR-SONARPUR MUNICIPALITY