




























WIRING DETAILS

ITEM NO AS IN BOQ	4.1	5.1	5.2	4.2	7.1	7.2	6.3
AREA	L	EXF	CF	2W L	2W L	SA IN	PF
FLAT A	20	3	3	3	3	16	1
FLAT B	20	3	3	3	3	16	1
FLAT C	20	3	3	3	3	16	1
FLAT D	20	3	3	3	3	16	1
COMMON	2	-	-	-	-	2	-
LIFT SHAFT	22	-	-	-	-	22	-
L.M.R	3	-	-	-	-	1	-

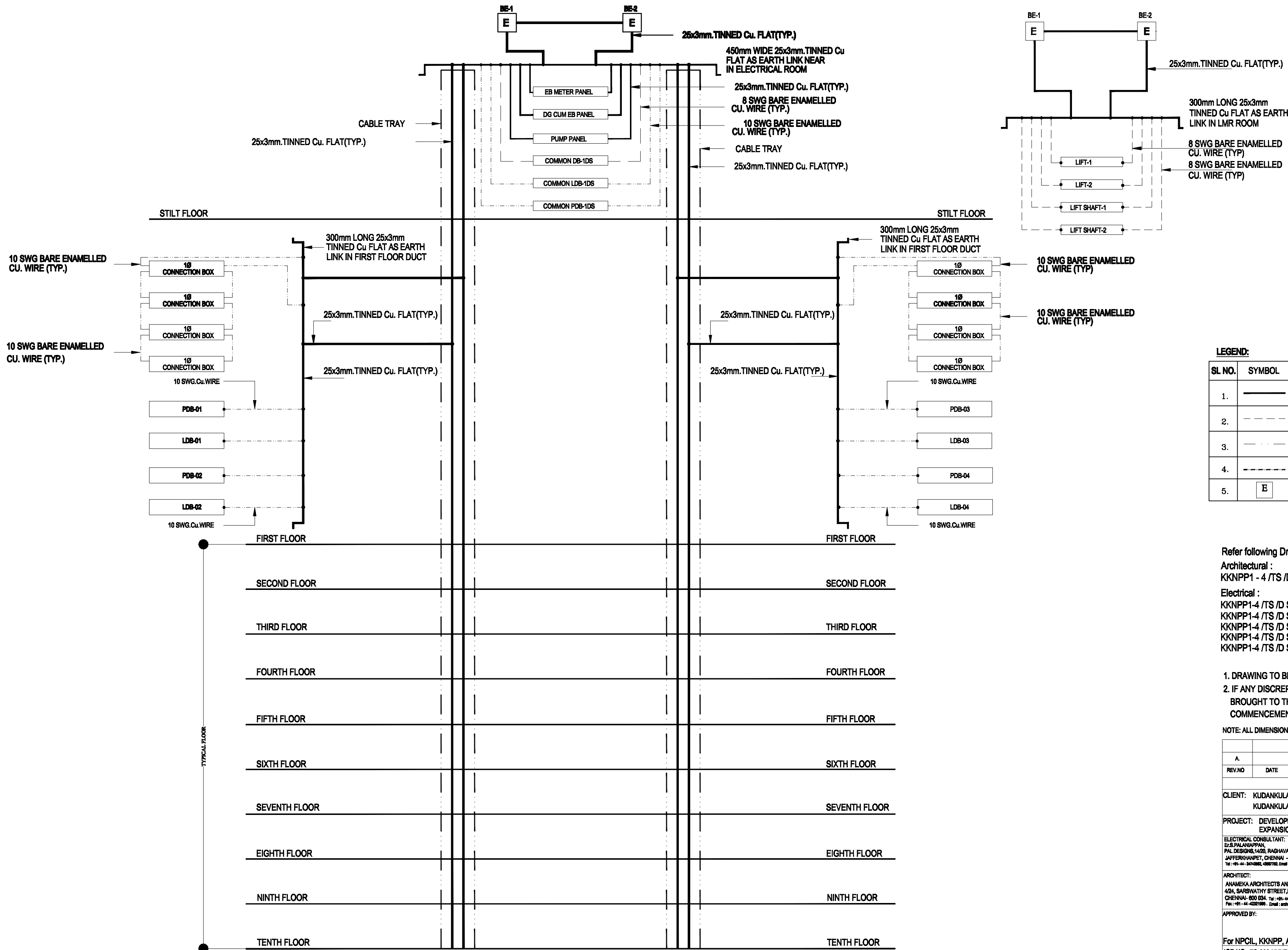
LEGEND:-			Qty
11.0		1 x 36W Box type Fluorescent Light fitting	32 Nos.
17.0		Ø1400mm Ceiling fan	12 Nos.
17.0		Ø1400mm Ceiling fan (Two way)	08 Nos.
-		Exhaust fan with Wiring and Switch Control. The Exhaust fan will be provided by the occupant if they require	08 Nos.
18.0		Exhaust fan (9300mm)	04 Nos.
13.0		1 x 23W CFL Wall Light (Two way)	12Nos.
13.0		1 x 23W CFL Wall Light fitting	24Nos.
14.0		1 x 6W CFL Wall Light fitting	24 Nos.
12.0		1 x 11W Mirror Light fitting	08 Nos.
19.0		Chandelier Light fitting	04 Nos.
15.0		1 x 13W Ceiling Mounted type Light fitting	10 Nos.
-		6A SSC @ 750mm from FFL.	60 Nos.
-		6A SSC @ 300mm from the Finished top of the Platform in Kitchen	08 Nos.
8.0		20A 30W Socket with 20A BP MCB for A/C control (Modular Type) @ 1200mm from FFL	12 Nos.
8.2		Geyser outlet @ 10mm below from the Bottom of the basin (The top level of the service basin)	08 Nos.
8.3		Geyser control @ 1200mm from FFL.	08 Nos.
8.1		6/15A SSC @ 1200mm from FFL.	13 Nos.
8.1		6/15A SSC @ 300mm from the Finished top of the Platform in Kitchen	04 Nos.
-		6A SSC in Switch Board @ 1200mm from FFL.	41 Nos.
21.2		Television Socket @ 750mm from FFL.	20 Nos.
20.2		Telephone & Intercom Dual Socket @ 750mm from FFL.	20 Nos.
5.3		Provision for Calling fan-Only Empty Control, Fan Hook Box, Geyser Box & Front Plate (Without Wiring)	04 Nos.
-		6A SSC in Switch Board (LIFT WELL)	11 Nos.
16.0		BULK HEAD FITTINGS	13 Nos.
6.0		Ceiling bell @ 2250mm from FFL.	04 Nos.
-		BELL PUSH @ 1200mm from FFL.	04 Nos.
-		Switch Board @ 1200mm from FFL.	

Refer following Drawings along with this Drawing:-
 Architectural :
 KKNPP1 - 4 /TS /D Special/103_Arch_Wrkg_Plan /01-03
 Electrical :
 KKNPP1-4 /TS /D Special/305_Elec_Typ.floor_Cond.Layout/ 0
 KKNPP1-4 /TS /D Special/305_Elec_Typ.floor_Dim.Layout/ 03

1. DRAWING TO BE READ NOT TO BE MEASURED.
2. IF ANY DISCREPANCY IN THE DRAWING SHOULD BE BROUGHT TO THE NOTICE OF THE ARCHITECT BEFORE COMMENCEMENT OF THE WORK AT SITE.

NOTE: ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER

REV. NO	DATE	DESCRIPTION
REVISIONS		
CLIENT: KUDANKULAM NUCLEAR POWER PROJECT (NPCIL), KUDANKULAM.		
PROJECT: DEVELOPMENT OF MASTER PLAN FOR ANUVILAY TOWNSHIP EXPANSION OF KK SITE FOR KK 1 TO 8		
ELECTRICAL CONSULTANT: E.S.PALANISWAMY, PAL DESIGNS, 14/2A, RAJAHAYAL COLONY 3RD STREET, JAFFERHAMPET, CHENNAI - 600 083. Tel: +91-44-2454555, 2455775. Email: palan@palan.com		SIGN & STAMP
ARCHITECT: ANAMEKA ARCHITECTS AND DESIGNERS, 4/2A, SARASWATHY STREET, MAHALINGAPURAM, CHENNAI- 600 034. Tel: +91-44-4213888, 4213884. Fax: +91-44-4251888. Email: anameka@anameka.com		SIGN & STAMP
APPROVED BY:		
For NPCIL, KKNPP, Anuvilay Township, Chettikulam.		SIGN & STAMP
JOB NO: TS-008-1000PP	DRAWING TITLE	SCALE: NTS
DESIGN: S.PAL	DATE: 02 Aug 10	ELECTRICAL LAYOUT OF TYPICAL FLOOR FOR BLOCK-D SPECIAL
DRAWN: K.JANAKI	DATE: 02 Aug 10	
CHECK: S.PAL	DATE: 02 Aug 10	
APPD: S.PAL	DATE: 02 Aug 10	
Dwg NO : KKNPP1-4 /TS /D Special/305_Elec_Typ.floor_Layout/ 01		
RELEASED FOR		CONSTRUCTION



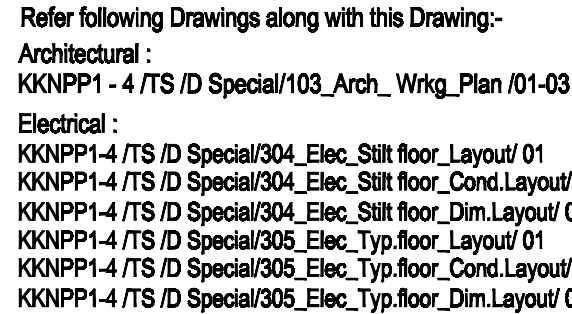
LEGEND:		
SL. NO.	SYMBOL	DESCRIPTION
1.	————	25x3mm.TINNED Cu. FLAT
2.	-----	8 SWG BARE ENAMELLED CU. WIRE
3.	-----	10 SWG BARE ENAMELLED CU. WIRE
4.	-----	CABLE TRAY
5.	E	EARTH ELECTRODE

Refer following Drawings along with this Drawing:-
Architectural :
KKNPP1 - 4 /TS /D Special/103_Arch_ Wrkg_Plan /01-03
Electrical :
KKNPP1-4 /TS /D Special/301_Elec_Sch.dia/ 01
KKNPP1-4 /TS /D Special/304_Elec_Stilt floor_Layout/ 01
KKNPP1-4 /TS /D Special/304_Elec_Stilt floor_Cond.Layout/ 02
KKNPP1-4 /TS /D Special/305_Elec_Typ.floor_Layout/ 01
KKNPP1-4 /TS /D Special/305_Elec_Typ.floor_Cond.Layout/ 02

1. DRAWING TO BE READ NOT TO BE MEASURED.
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NOTE: ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER

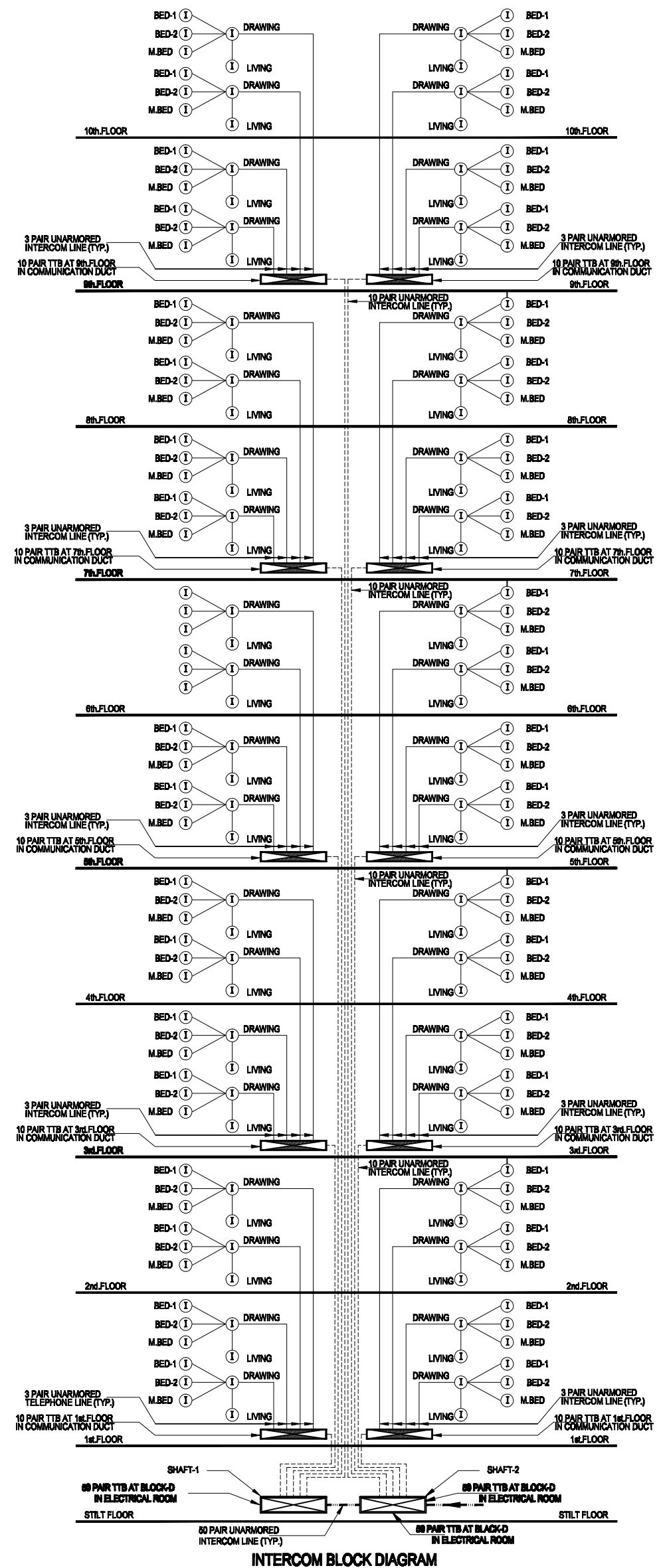
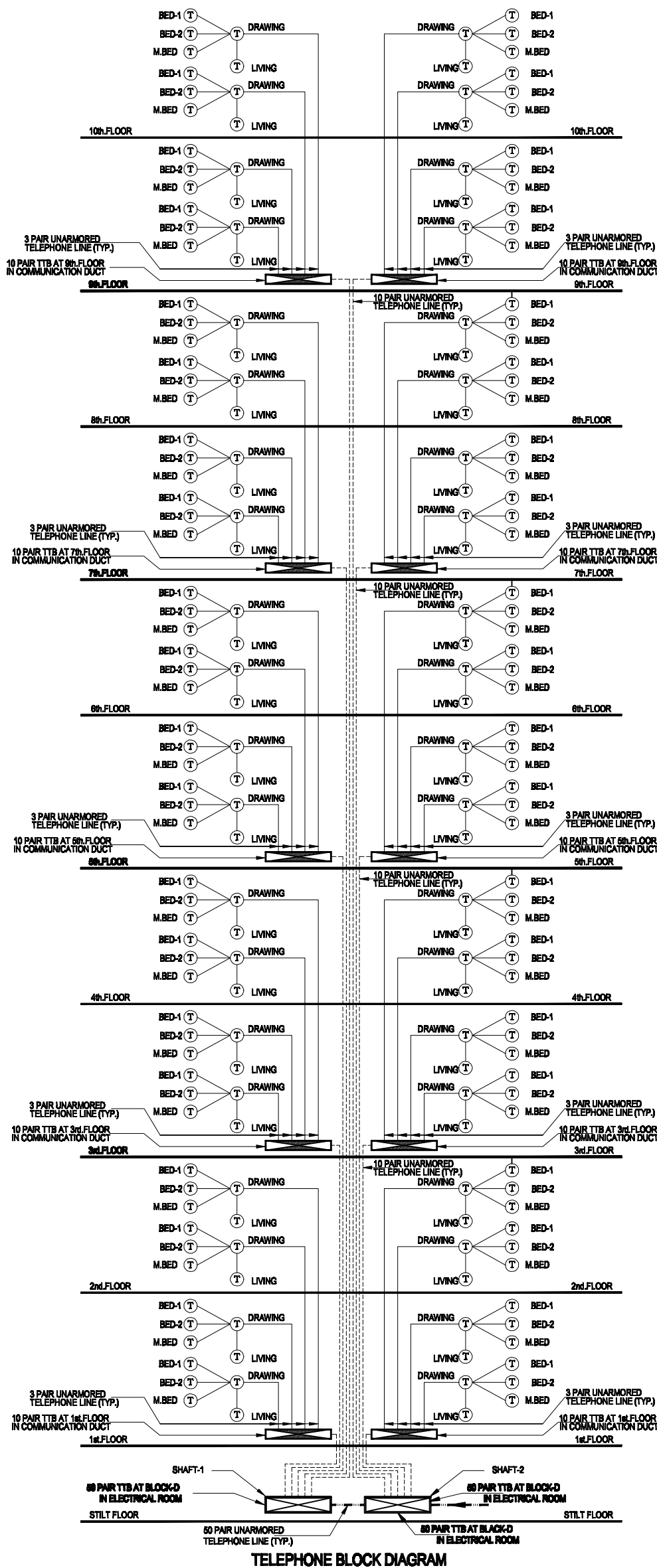
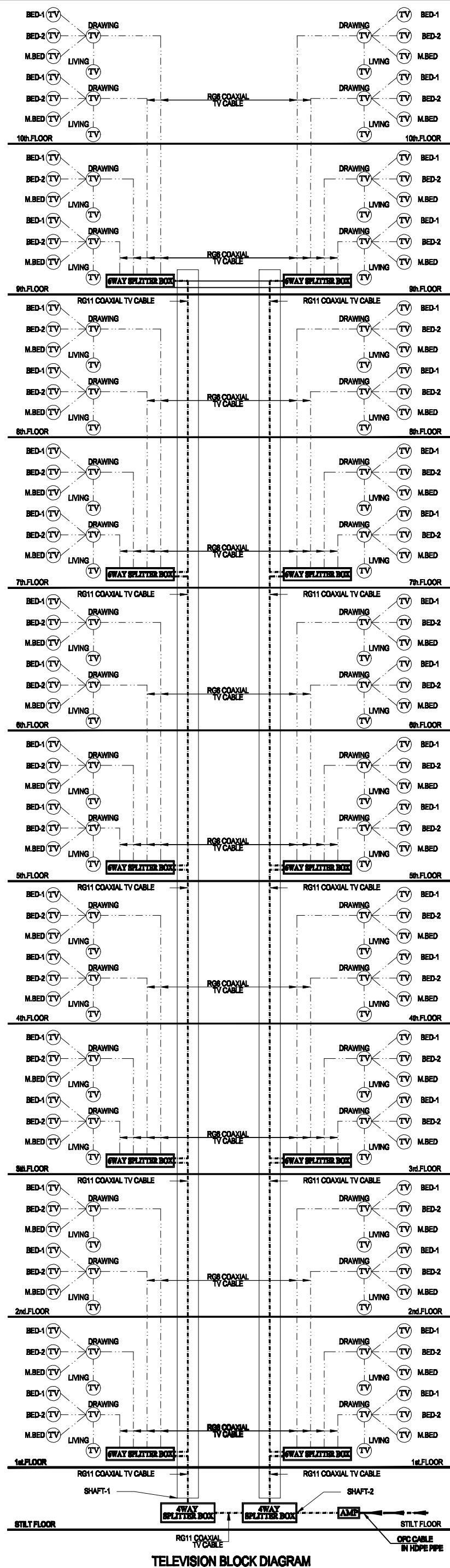
REVISIONS		
REV.NO	DATE	DESCRIPTION
CLIENT: KUDANKULAM NUCLEAR POWER PROJECT (NPCIL), KUDANKULAM.		
PROJECT: DEVELOPMENT OF MASTER PLAN FOR ANUVIJAY TOWNSHIP EXPANSION OF KK SITE FOR KK 1 TO 6		
ELECTRICAL CONSULTANT: S.P. PALANISAPPAN, PAL DESIGNS,14/20, RAGHAVAN COLONY 3RD STREET, JAVERGAVARPET, CHENNAI - 600 035. Tel : +91-44- 54743852, 43857702, Email : spalansp@gmail.com		
ARCHITECT: ANAMEKA ARCHITECTS AND DESIGNERS, 424, SARASWATHY STREET,MAHALINGAPURAM, CHENNAI- 600 034. Tel : +91-44- 42130361, 60186564. Fax: +91-44-43321865 , Email : anekad@anameka.co.in		
APPROVED BY:		
For NPCIL, KKNPP, Anuvijay Township, Chettikulam.		
JOB NO: TS-003-KKNPP		DRAWING TITLE
NAME		SCALE :
DSGN	S.PAL	02 Aug 10
DRWN	K.RAJESH	02 Aug 10
CHKD	S.PAL	02 Aug 10
APPD	S.PAL	02 Aug 10
DRG NO : KKNPP1-4 /TS /D Special/302_Elec_Ear Skd/ 02		
RELEASED FOR		CONSTRUCTION



1. DRAWING TO BE READ NOT TO BE MEASURED.
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NOTE: ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER

A.																				
REV/NO	DATE	DESCRIPTION																		
REVISIONS																				
CLIENT: KUDANKULAM NUCLEAR POWER PROJECT (NPCIL), KUDANKULAM.																				
PROJECT: DEVELOPMENT OF MASTER PLAN FOR ANUVIJAY TOWNSHIP EXPANSION OF KK SITE FOR KK 1 TO 6																				
ELECTRICAL CONSULTANT: E/S.PALANISAPPAN, PAL RESIDENCE, 4420, RAGHAVAN COLONY 3RD STREET, JAFFERKOMPET, CHENNAI - 600 083. Tel: +91-44-3453388, 4388772. Email: palanappan@gmail.com		SIGN & STAMP																		
ARCHITECT: ANAMEKA ARCHITECTS AND DESIGNERS, 4/24, SARASWATHY STREET, MAHALINGAPURAM, CHENNAI- 600 034. Tel: +91-44-4233891, 4939894. Fax: +91-44-4332189. Email: architek@anameka.co.in		SIGN & STAMP																		
APPROVED BY:																				
For NPCIL, KKNPP, Anuvijay Township, Chettikulam.																				
JOB NO: TS-003-KKNPP		SIGN & STAMP																		
<table><tr><th>NAME</th><th>SIGN</th><th>DATE</th></tr><tr><td>DSGN S.PAL</td><td></td><td>02 Aug 10</td></tr><tr><td>DRWN K.RAJESH</td><td></td><td>02 Aug 10</td></tr><tr><td>CHKD S.PAL</td><td></td><td>02 Aug 10</td></tr><tr><td>APPD S.PAL</td><td></td><td>02 Aug 10</td></tr></table>	NAME	SIGN	DATE	DSGN S.PAL		02 Aug 10	DRWN K.RAJESH		02 Aug 10	CHKD S.PAL		02 Aug 10	APPD S.PAL		02 Aug 10	<table><tr><td><u>DRAWING TITLE</u></td><td>SCALE : NYS</td></tr><tr><td colspan="2">SCHEMATIC DRAWING FOR BLOCK-D SPECIAL-2 WITH WATER PUMP</td></tr></table>	<u>DRAWING TITLE</u>	SCALE : NYS	SCHEMATIC DRAWING FOR BLOCK-D SPECIAL-2 WITH WATER PUMP	
NAME	SIGN	DATE																		
DSGN S.PAL		02 Aug 10																		
DRWN K.RAJESH		02 Aug 10																		
CHKD S.PAL		02 Aug 10																		
APPD S.PAL		02 Aug 10																		
<u>DRAWING TITLE</u>	SCALE : NYS																			
SCHEMATIC DRAWING FOR BLOCK-D SPECIAL-2 WITH WATER PUMP																				
DRG NO: / KKNPP-1 / TS / D Special/301_Elec_Sch_Layout/ 02																				
RELEASED FOR		CONSTRUCTION																		



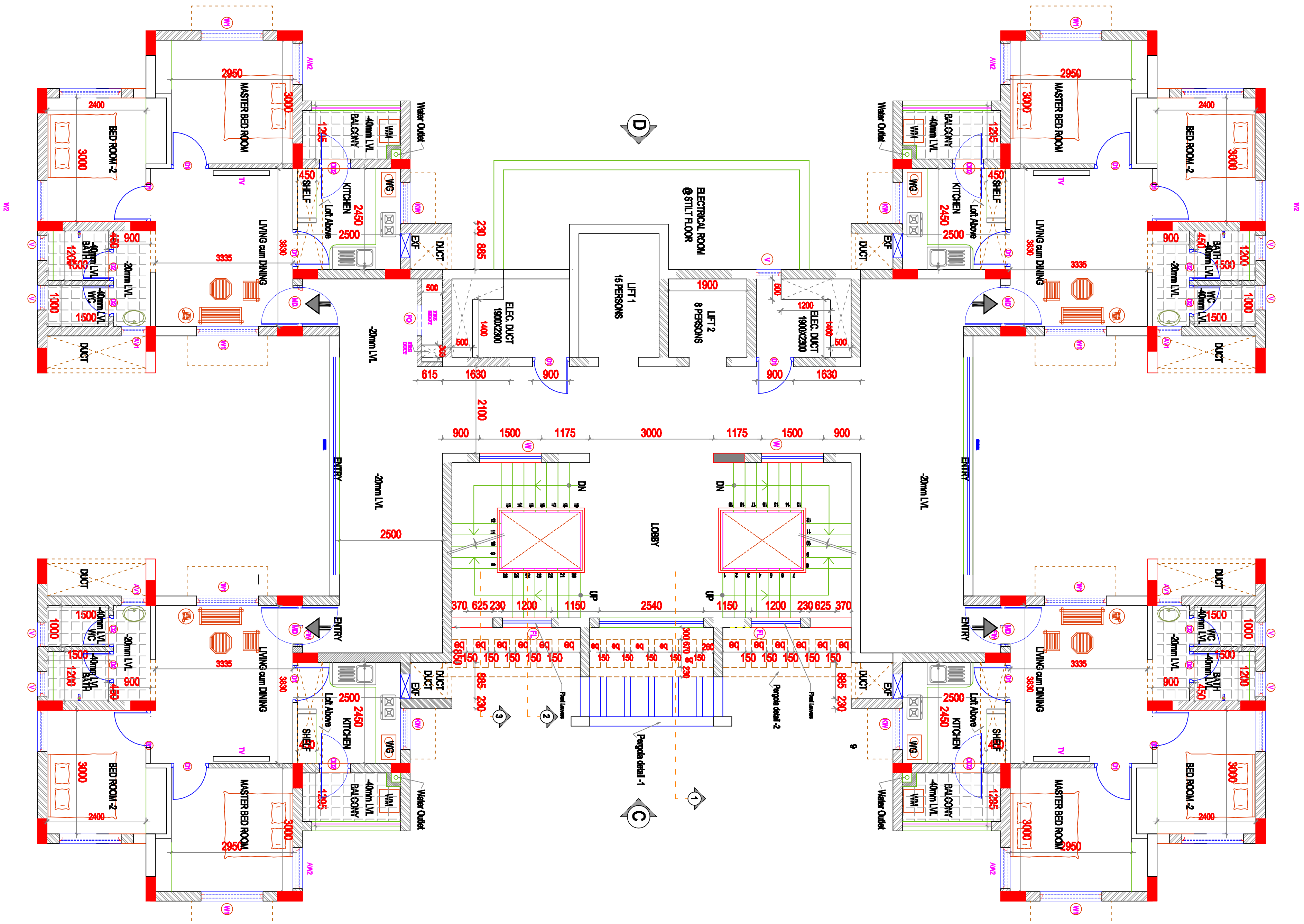
Refer following Drawings along with this Drawing:-
 Architectural :
 KKNPP1 - 4 /TS /D Special/103_Arch_Wrkg_Plan /01-03
 Electrical :
 KKNPP1-4 /TS /D Special/304_Elec_Stilt floor_Layout/ 01
 KKNPP1-4 /TS /D Special/305_Elec_Typ.floor_Layout/ 01

1. DRAWING TO BE READ NOT TO BE MEASURED.
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NOTE: ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER

REVNO	DATE	DESCRIPTION
A		
REVISIONS		
CLIENT: KUDANKULAM NUCLEAR POWER PROJECT (NPCIL), KUDANKULAM.		
PROJECT: DEVELOPMENT OF MASTER PLAN FOR ANUVIY TOWNSHIP EXPANSION OF KK SITE FOR KK 1 TO 6		
ELECTRICAL CONSULTANT: E.S.PALANISAPPAN, PAL DESIGNS, 14/20, RAGHAVAN COLONY 3RD STREET, JAFFERGUAPET, CHENNAI - 600 035. Tel: +91-44-324285, 324275. Email: palanisp@gmail.com		
ARCHITECT: ANAMEKA ARCHITECTS AND DESIGNERS, 4/24, BARATHY STREET, ANJALINGAPURAM, CHENNAI- 600 034. Tel: +91-44-4250001, 4250002. Fax: +91-44-4252009. Email: anameka@gmail.com		
APPROVED BY:		
For NPCIL, KKNPP, Anuviy Township, Chettikulam.		
JOB NO: TS-003-KKNPP	NAME	DATE
	S.PAL	02 Aug10
	S.BRIN	02 Aug10
	CHND	02 Aug10
	APPD	02 Aug10
BLOCK DIAGRAM OF TELEPHONE & TV FOR BLOCK-D SPECIAL		
DRG NO : KKNPP1-4 /TS /D Special/305_Elec_BI Dia_Tele&tv/ 01		
RELEASED FOR CONSTRUCTION		

TYPE B - TYPICAL FLOOR PLAN



SCHEDULE OF JOINTS				
S.NO	TYPE	WIDTH	DEPTH	REIN. LITERS
1	JO	1000	200	-
2	JO	800	200	-
3	JO	700	200	-
4	JO	600	200	-
5	JO	500	200	-
6	JO	400	200	-
7	JO	300	200	-
8	JO	200	200	-
9	JO	100	200	-
10	JO	50	200	-
11	JO	25	200	-
12	JO	12.5	200	-
13	JO	6.25	200	-
14	JO	3.125	200	-
15	JO	1.5625	200	-
16	JO	0.78125	200	-

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NOTE: ALL DIMENSIONS ARE IN MILLIMETER

A	DATE	DESCRIPTION
REVISIONS		
CLIENT: KIDANKULAM NUCLEAR POWER PROJECT (KNCPL), KIDANKULAM.		
PROJECT: DEVELOPMENT OF MASTER PLAN FOR ANNAMALAY TOWNSHIP EXPANSION OF ICS SITE FOR ICS 1 TO 8		
ARCHITECT: KIDANKULAM NUCLEAR POWER PROJECT (KNCPL), KIDANKULAM.		
APPROVED BY: _____		
FOR NRCPL (KNCPL, Annamalai) Township, Chidambaram.		
JOB NO: TS-003-KN-PP		
DRAWING TITLE: B TYPE TYPICAL FLOOR PLAN		
SCALE: 1:100		
DRG NO.: KNCPL-4/TS/B Type/103 Aed. WING Plan/1/2		
RELEASED FOR: CONSTRUCTION		



MECHANISMS OF JOINERY

SERIAL NO	TYPE	WIDTH	HEIGHT	SILL	UNITE
1	M3	1000	2100	-	2100
2	0	1000	2100	-	
3	D1	900	2100	-	2100
4	D2	750	2100	-	2100
5	C01	900	2100	-	2100
6	D2	750	2100	-	2100
7	FW	1200	1950	150	2100
8	FWH	600	1950	150	2100
9	W	1500	1000	750	1750
10	W1	1500	1350	750	2100
11	W2	1000	1350	750	2100
12	AW1	1500	1500	750	2100
13	AW2	1000	1350	750	2100
14	W	1000	1000	1100	2100
15	W	5000	1350	750	2100
16	V	600	1000	1100	2100
17	FL	1500	2600	150	2750
18	FO	750	1000	900	2100

Kitchen & Bathroom Slab Sunk by 275mm
EWIC Toilet Slab Sunk by 275mm
WAC Toilet Slab Sunk by 450mm
60mm Threshold for Main Door & Other Doors
Pergola detail - 1 - FIRST FLOOR ROOF OVERHANG

refer following Drawings along with this Drawing:-

WKRP1 - 4-TS IE Type 101 Arch. WKRG_ming/01-03
 WKRP1 - 4-TS IE Type 102 Arch. WKRG_Cen/01
 WKRP1 - 4-TS IE Type 103 Arch. WKRG_PLAN/01-03
 WKRP1 - 4-TS IE Type 104 Arch. WKRG_Elec/01-03
 WKRP1 - 4-TS IE Type 105 Arch. WKRG_Scan/01-03
 WKRP1 - 4-TS IE Type 106 Arch. WKRG_Wheat/01-03
 WKRP1 - 4-TS IE Type 107 Arch. WKRG_star/01
 WKRP1 - 4-TS IE Type 108 Arch. WKRG_hospital/01-03
 WKRP1 - 4-TS IE Type 109 Arch. WKRG_Jury/01
 WKRP1 - 4-TS IE Type 110 Arch. WKRG_boat/01
 WKRP1 - 4-TS IE Type 112 Arch. WKRG_perseus/01

Structural :

KNIPP1 - 4 ITS IE Type I201_Src_WRKKG_foun/ 01 - 06
KNIPP1 - 4 ITS IE Type I202_Src_WRKKG_roof/ 01 - 04
KNIPP1 - 4 ITS IE Type I202_Src_WRKKG_Lintel/ 05

KNPP1 - 4 /TS /E Type /304_Elec_ Silt floor_Layo

umbung:

Are Fighting:

KNPP1 - 4 ITS/E Type /503_Fire_Typ.floor_Layout/01

COMMITMENT OF THE WORK AT SITE.

NOTE: ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER

REVISIONS	DATE	REVISION
1	10/1/00	Initial Design
2	10/1/00	Initial Design
3	10/1/00	Initial Design
4	10/1/00	Initial Design
5	10/1/00	Initial Design
6	10/1/00	Initial Design
7	10/1/00	Initial Design
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98	10/1/00	Initial Design
99	10/1/00	Initial Design
100	10/1/00	Initial Design

PROJECT: KUDANKULAM NUCLEAR POWER PROJECT (NPCL)
KUDANKULAM
PROJECT DEVELOPMENT OF MASTER PLAN FOR ANNUAL EQUIPMENT
EXPANSION OF KK SITE FOR KK 1 TO 6
CONTACT: 
SUBMITTAL OF NEW TENDERS AND REVISIONS
SUBMITTAL OF NEW TENDERS AND REVISIONS

100-443889-144. See also 100-443889-143.
100-443889-145. See also 100-443889-144.

DRAWING TITLE		TYPE-E	
NAME	DATE	NAME	DATE
DATE	DATE	DATE	DATE

TYPICAL FLOOR PLAN		
10000	10000	10000
10000	10000	10000
10000	10000	10000

RG NO :	KNNP1-4 / TS / E Type NCO Arch. WREG Plan 02
RELEASED FOR	CONSTRUCTION

LIFT MACHINE ROOM +38.10m

STAIRCASE HEADROOM +37.9m

PARAPET +36.15m

TERRACE FLOOR +35.25m

10th FLOOR Lintel +34.2m

10th FLOOR +32.1m

9th FLOOR Lintel +31.05m

9th FLOOR +28.95m

8th FLOOR Lintel +27.8m

8th FLOOR +25.6m

7th FLOOR Lintel +24.75m

7th FLOOR +22.65m

6th FLOOR Lintel +21.6m

6th FLOOR +19.5m

5th FLOOR Lintel +18.45m

5th FLOOR +16.35m

4th FLOOR Lintel +15.3m

4th FLOOR +13.2m

3rd FLOOR Lintel +12.15m

3rd FLOOR +10.05m

2nd FLOOR Lintel +9.0m

2nd FLOOR +6.9m

1st FLOOR Lintel +5.85m

1st FLOOR LVL +3.75m

STILT FLOOR +0.6m

GROUND LVL 00



Refer following Drawings along with this Drawing:-

Architectural:-

KNRP-4/ISE Type 02 Arch. WROG, Cont'd 01 & 02
KNRP-4/ISE Type 03 Arch. WROG, Plan 01-03
KNRP-4/ISE Type 04 Arch. WROG, Section 01-02
KNRP-4/ISE Type 07 Arch. WROG, Section 01-02
KNRP-4/ISE Type 08 Arch. WROG, Section 01-02
KNRP-4/ISE Type 10 Arch. WROG, Section 01-02
KNRP-4/ISE Type 12 Arch. WROG, Section 01-02
KNRP-4/ISE Type 13 Arch. WROG, Section 01-02

Structural:-

KNRP-4/ISE Type 02 S.C. WROG, Cont'd 01-04
KNRP-4/ISE Type 03 S.C. WROG, Cont'd 01-04
KNRP-4/ISE Type 04 S.C. WROG, Cont'd 01-04
KNRP-4/ISE Type 07 S.C. WROG, Cont'd 01-04
KNRP-4/ISE Type 08 S.C. WROG, Cont'd 01-04
KNRP-4/ISE Type 10 S.C. WROG, Cont'd 01-04
KNRP-4/ISE Type 12 S.C. WROG, Cont'd 01-04
KNRP-4/ISE Type 13 S.C. WROG, Cont'd 01-04

Electrical:-

KNRP-4/ISE Type 02 Elec. S.C. WROG, Cont'd 01-03
KNRP-4/ISE Type 03 Elec. S.C. WROG, Cont'd 01-03
KNRP-4/ISE Type 04 Elec. S.C. WROG, Cont'd 01-03
KNRP-4/ISE Type 07 Elec. S.C. WROG, Cont'd 01-03
KNRP-4/ISE Type 08 Elec. S.C. WROG, Cont'd 01-03
KNRP-4/ISE Type 10 Elec. S.C. WROG, Cont'd 01-03
KNRP-4/ISE Type 12 Elec. S.C. WROG, Cont'd 01-03
KNRP-4/ISE Type 13 Elec. S.C. WROG, Cont'd 01-03

Plumbing:-

KNRP-4/ISE Type 02 Plumb. S.C. WROG, Cont'd 01-03
KNRP-4/ISE Type 03 Plumb. S.C. WROG, Cont'd 01-03
KNRP-4/ISE Type 04 Plumb. S.C. WROG, Cont'd 01-03
KNRP-4/ISE Type 07 Plumb. S.C. WROG, Cont'd 01-03
KNRP-4/ISE Type 08 Plumb. S.C. WROG, Cont'd 01-03
KNRP-4/ISE Type 10 Plumb. S.C. WROG, Cont'd 01-03
KNRP-4/ISE Type 12 Plumb. S.C. WROG, Cont'd 01-03
KNRP-4/ISE Type 13 Plumb. S.C. WROG, Cont'd 01-03

1. DRAWING TO BE READ NOT TO BE MISLEADING

2. IF ANY DISCREPANCY IN THE DRAWING SHOULD BE

BROUGHT TO THE NOTICE OF THE ARCHITECT BEFORE

COMMENCEMENT OF THE WORK AT SITE

NOTE: ALL DIMENSIONS ARE IN METERS AND LEVELS ARE IN METER

DATE: 10/10/2011

PROJECT: KUALA LUMPUR POWER PROJECT (KUALA LUMPUR)

CLIENT: KUALA LUMPUR POWER PROJECT (KUALA LUMPUR)

PROJECT: KUALA LUMPUR POWER PROJECT (KUALA LUMPUR)

PROJECT: KUALA LUMPUR POWER PROJECT (KUALA LUMPUR)

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PROJECT: KUALA LUMPUR POWER PROJECT (KUALA LUMPUR)

PROJECT: KUALA LUMPUR POWER PROJECT (KUALA LUMPUR)

NOTE:

1. Depth of foundation proposed is 2.4 m
2. 100mm Sand filling is proposed for equal spreading of load.
3. SBC of the Soil proposed is 300 kN/m².
4. Designed for SRS + 10 Floor.
5. All Structural Drawing to be read along with Architectural Drawing
6. Upto SRS+2 floor Use M20 Grade Concrete & Steel Fe 500.
7. Reinforcing bars use M20 Grade Concrete & Steel Fe 500.
8. Slabs Details



- 8. CLEAR COVER FOR**
- COLUMNS-50mm
 - FOOTINGS-50mm
 - PEDESTALS-50mm
 - BEAMS-40mm & SLAB-25mm
 - RAFT BEAMS-50mm & RAFT SLAB-50mm

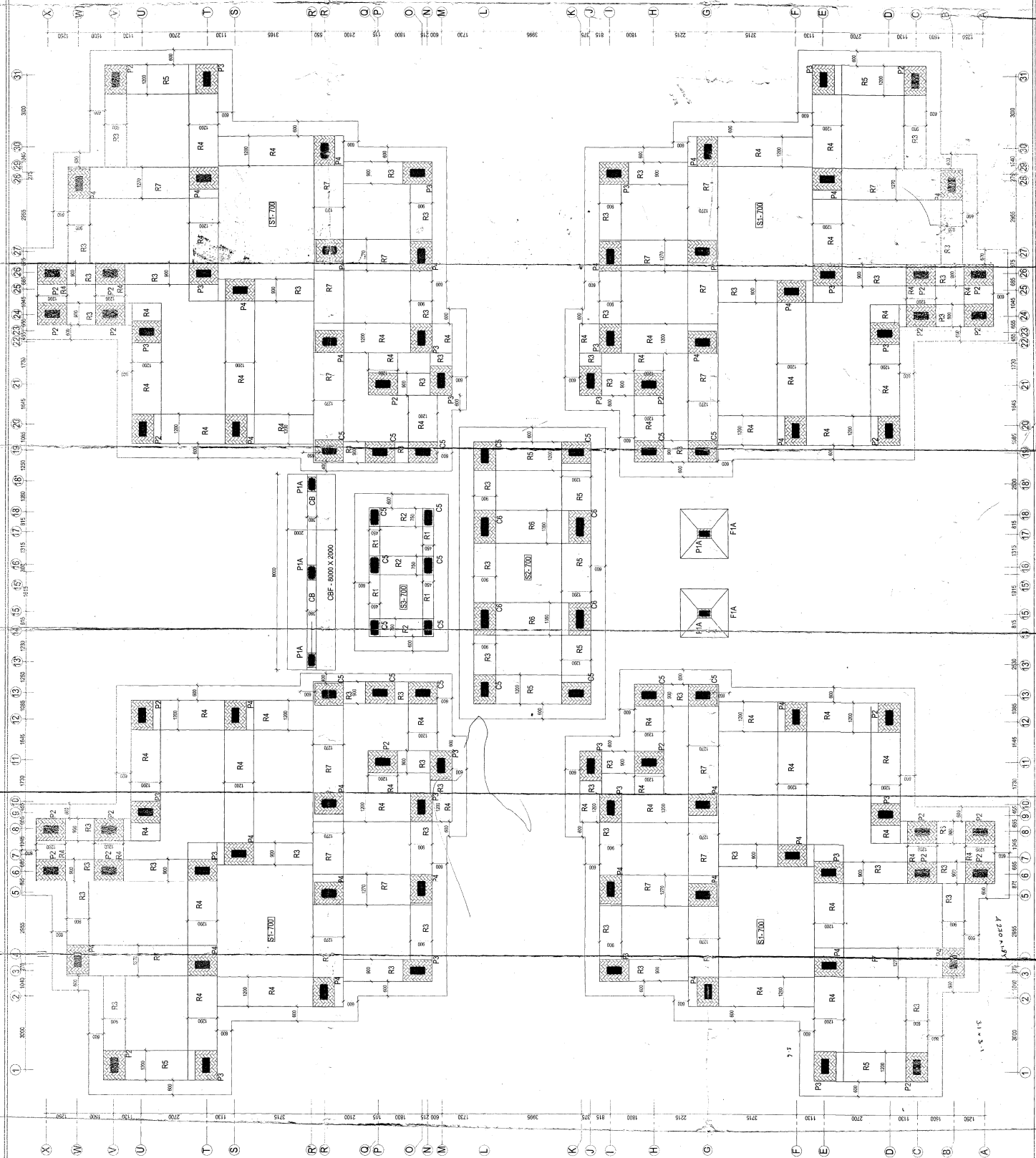
Refer following Drawings along with this Drawing:-

- Architectural:**
- KNKPP1-4/TS/E Type 101 Arch. WRKG.mwg/01
 - KNKPP1-4/TS/E Type 102 Arch. WRKG.mwg/01
 - KNKPP1-4/TS/E Type 103 Arch. WRKG.mwg/01
- Structural:**
- KNKPP1-4/TS/E Type 201 Strc. WRKG.mwg/01-09

1. DRAWING TO BE READ NOT TO BE MEASURED
2. IF ANY DISCREPANCY IN THE DRAWING SHOULD BE BROUGHT TO THE NOTICE OF THE ARCHITECT BEFORE COMMENCEMENT OF THE WORK AT SITE.

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS

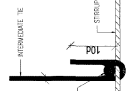
REV	NO	DATE	DESCRIPTION
A	1	23/03/21	REVISED FOR KNKPP INSTRUCTIONS
REVISIONS			
CLIENT: KUDANKULAN NUCLEAR POWER PROJECT (NPP), KUDANKULAM			
PROJECT: DEVELOPMENT OF WASTE PLANT FOR ANJALAN TOWNSHIP EXPANSION OF K SITE FOR PK 1 TO 8			
STRUCTURAL CONSULTANT: ANAND ARCHITECTS & ENGINEERS, 11/1, P. O. BOX 111, ANAND, TAMIL NADU 605 005			
ARCHITECT: ANAND ARCHITECTS AND DESIGNERS, 11/1, P. O. BOX 111, ANAND, TAMIL NADU 605 005			
APPROVED FOR: ANAND ARCHITECTS AND DESIGNERS, 11/1, P. O. BOX 111, ANAND, TAMIL NADU 605 005			
DATE: 23/03/21			
PROJECT NO.: KNKPP1-4/TS/E Type 101			
PROJECT NO.: KNKPP1-4/TS/E Type 102			
PROJECT NO.: KNKPP1-4/TS/E Type 103			
PROJECT NO.: KNKPP1-4/TS/E Type 104			
PROJECT NO.: KNKPP1-4/TS/E Type 105			
PROJECT NO.: KNKPP1-4/TS/E Type 106			
PROJECT NO.: KNKPP1-4/TS/E Type 107			
PROJECT NO.: KNKPP1-4/TS/E Type 108			
PROJECT NO.: KNKPP1-4/TS/E Type 109			
PROJECT NO.: KNKPP1-4/TS/E Type 110			
PROJECT NO.: KNKPP1-4/TS/E Type 111			
PROJECT NO.: KNKPP1-4/TS/E Type 112			
PROJECT NO.: KNKPP1-4/TS/E Type 113			
PROJECT NO.: KNKPP1-4/TS/E Type 114			
PROJECT NO.: KNKPP1-4/TS/E Type 115			
PROJECT NO.: KNKPP1-4/TS/E Type 116			
PROJECT NO.: KNKPP1-4/TS/E Type 117			
PROJECT NO.: KNKPP1-4/TS/E Type 118			
PROJECT NO.: KNKPP1-4/TS/E Type 119			
PROJECT NO.: KNKPP1-4/TS/E Type 120			



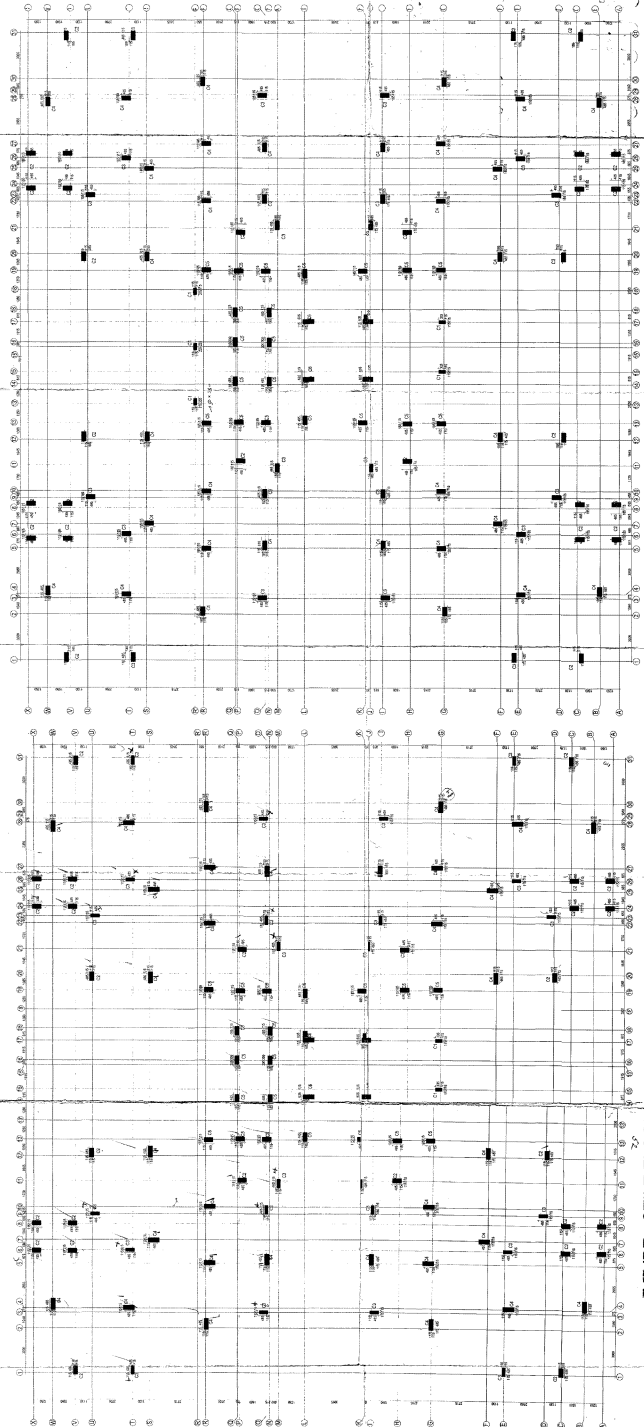


NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METRES UNLESS OTHERWISE STATED.
2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH LATEST ARCHITECTURAL DRAWINGS.
3. LOCATIONS AND ORIENTATIONS OF BUILDING AND COLUMN SHOULD MATCH WITH ARCHITECTURAL DRAWINGS.
4. UP TO SIXTY ARCHITECTURAL DRAWINGS.
5. LIFT SITS 11/2 FLOOR USE MAX GRADE CONCRETE.
6. REMAINING FLOORS USE MAX GRADE CONCRETE.
7. CLEAR COVER FOR MAX GRADE CONCRETE SHALL BE AS FOLLOWS:
 FOR FOOTINGS 50mm
 FOR BEAMS & SLAB 40mm & 25mm OR DIA OF BAR, WHICHEVER IS GREATER.
8. LIFT JAMB SHALL BE 40 TIMES THE DIA OF BAR FOR MAX GRADE CONCRETE AND SHALL BE KEPT 1/8 AGGREGED.
9. DEVELOPMENT LENGTH SHALL BE 50 TIMES THE DIA OF BAR FOR MAX GRADE CONCRETE.
10. (4+0.0m) LVL. CORRESPOND FSL OF BUILDING.
11. COLUMN REINFORCEMENT LVL SHALL BE STAGGERED AND TO BE PROVIDED ONLY IN THE CENTRAL HALF OF CLEAR FLOOR TO FLOOR.
12. DEVELOPMENT LENGTH SHALL BE 50 PERCENT OF THE BARS SHALL BE SPICED AT ONE SECTION.
13. ALL HOOKS, BENDS AND APPS SHALL BE AS PER IS:2002-1983 AND IS:19002-1983 UNLESS OTHERWISE SPECIFIED.



D		C	A	B	A	03.03.17	REVISED AS PER KNMP INSTRUCTIONS	0	0	FIRST SUBMISSION	DESCRIPTION	REVISIONS	CLIENT : NUCLEAR POWER CORPORATION OF INDIA LIMITED, KKNPP, KUDANKULAM.	PROJECT : M/S ANUVJAY TOWNSHIP EXPANSION - KK1 TO 6 STRUCTURAL CONSULTANT: E.R RAMACHANDRAN I.E.(I.T) P.N.SURESH CHANDER NO. 1 FIRST FLOOR GANAKARAI SALU ASPON NUGA CHENNAI - 601 083 ARCHITECT: AMEENO AHMEDTS AND DESIGNERS NO. 9, PATTINAM ROAD, SRI LAKSHMI NAGAR, ANNAMALAI CHENNAI-600 034. Ph no: 98-49-423381 And other numbers as per drawings	E.I. & RANA RAHMAN #1 Ground floor SIGN & STAMP SIGN & STAMP SIGN & STAMP	SIGN & STAMP SCALE 1:50	DRAWING TITLE ETYPE Column Layout and Detail Date 01 Sep/O9 01 Sep/O9 25 May/10 APPROD SPRH	DATE 01 Sep/O9 01 Sep/O9 25 May/10 25 May/10	N/A	NAME SSBU VP/ SPN SPRH	JOB NO.: TS-03-KKNPP	For NECL, KKNPP Anuvjay Township, Chennai.tam.	DRG NO : KKNPP-I-4 / TS/E Type 2/01_ Stc_WRKGG Four(01)	RELEASE FOR CONSTRUCTION
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[illegible][illegible]

ETYPE - STILT FLOOR

E TYPE - TYPICAL FLOOR CENTERLINE DRAWING

NOTE:-

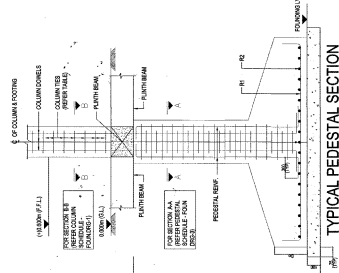
1. Depth of foundation proposed is 2.4 m
2. 10mm Sand filling is proposed for equal spreading of load.
3. SBC of the Soil proposed is 300 KN/Sq.m.
4. Designed for Silt - 10 Floors.
5. All Structural Drawing to be read along with Architectural Drawing
6. Up to Slab 2 floor Use M35 Grade Concrete & Steel Fe 500.
7. Remaining floors Use M30 Grade Concrete & Steel Fe 500.
8. Straps Details



8. CLEAR COVER FOR
COLUMNS-40mm
FOOTINGS-50mm
PEDESTALS-50mm
BEAMS-40mm & 45-50mm

SCHEDULE OF PEDESTALS

TYPE	SIZE	
	a	b
P1	900	1050
P2, P3, P4, P5	900	1200
P6	900	1350



TYPICAL PEDESTAL SECTION

Refer following Drawings along with this Drawing:-
Architectural :
KNKPP1-4/TSE101_Arch_WKRG.mwg / 01
KNKPP1-4/TSE103_Arch_WKRG.PLAN / 01

Structural :

1. KNKPP1-4/TSE201_Src_WKRG.foun / 01-06
2. KNKPP1-4/TSE201_Src_WKRG.foun / 01-06
3. KNKPP1-4/TSE201_Src_WKRG.foun / 01-06
4. KNKPP1-4/TSE201_Src_WKRG.foun / 01-06

BROUGHT TO THE NOTICE OF THE ARCHITECT BEFORE
COMPLETION OF THE WORK AT SITE.

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS

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NOTE:-

1. Depth of foundation proposed is 2.4 m
2. 100mm Sand filling is proposed for equal spreading of load.
3. SSC of the Soil proposed is 300 KN/ Sq.m.
4. Designed for Silt + 10 Floors.
5. All Structural Drawing to be read along with Architectural Drawing
6. Up to Silt+2 floor Use M35 Grade Concrete & Steel Fe 500, Remaining floors Use M30 Grade Concrete & Steel Fe 500.
7. Stirrups Details

SCHEDULE OF PEDESTAL

UPTO +0.000m Lvl						
TYPE	SIZE		SECTION	MAIN BARS	TIES	
	a	b				
P4	900	1200		16-Y25 + 2-Y20 + 3-Y12 + 18-Y12	Y10 @ 75 C/C L6+L19+L20+L21+L22	
P5	900	1200		12-Y20 + 16-Y16	Y10 @ 75 C/C L9+L10+L19	
P6	900	1350		14-Y25 + 18-Y16	Y10 @ 75 C/C L11+L12+L23	

SCHEDULE OF PEDESTAL

UPTO +0.000m Lvl							
TYPE	SIZE		SECTION	MAIN BARS	TIES		
	a	b					
P1	900	1050		① 4-Y25 + ② 4-Y20 + ④ 3-Y12 + ⑤ 18-Y12	Y10 @ 75 C/C L1+L2+L3+L18		
P2	900	1200		① 4-Y25 + ② 8-Y20 + ④ 3-Y12 + ⑤ 18-Y12	Y10 @ 75 C/C L4+L5+L6+L19		
P3	900	1200		① 14-Y25 + ④ 3-Y12 + ⑤ 18-Y12	Y10 @ 75 C/C L7+L8+L9+L19		

Refer following Drawings along with this Drawing:-

- Architectural:
 KNPP1-4/TS/E Type/01 Arch. WRKG mtd/01
 KNPP1-4/TS/E Type/02 Arch. WRKG Cent/01
 KNPP1-4/TS/E Type/03 Arch. WRKG PLAN/01
- Structural:
 KNPP1-4/TS/E Type 201 Strc. WRKG Joint 01-09
 KNPP1-4/TS/E Type 304 Elec. Silt floor Layout 01-03
 KNPP1-4/TS/E Type 305 Elec. Typ floor Layout 01-03
 KNPP1-4/TS/E Type 306 Elec. Typ flat Layout 01
- Plumbing:
 KNPP1-4/TS/E Type 401 Plm. NSP Typ floor Layout 01
 KNPP1-4/TS/E Type 401 Plm. SWP Typ floor Layout 01
- Fire Fighting:
 KNPP1-4/TS/E Type 503 Fire Typ floor Layout 01

1. DRAWING TO BE READ NOT TO BE MISREAD.
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NOTE: ALL DIMENSIONS ARE IN MILLIMETER AND LEVEL ARE IN METER.

NO.	DATE	REVISION	DESCRIPTION

CLIENT: KUDANKULAM NUCLEAR POWER PROJECT (NPCL), KUDANKULAM

PROJECT: DEVELOPMENT OF MASTER PLAN FOR ANJAN TOWNSHIP EXPANSION OF K SITE FOR K1 TO 8

STRUCTURAL CONSULTANT: E. S. RAMANATHAN & PARTNERS, CHENNAI 600 044. Tel: 044-42388448, 42388449. Fax: 044-42388450. Email: esr@esr.com

DESIGNED BY: E. S. RAMANATHAN, SENIOR CIVIL ENGINEER

CHECKED BY: S. RAJENDRAN, SENIOR CIVIL ENGINEER

APPROVED BY: S. RAJENDRAN, SENIOR CIVIL ENGINEER

FOR NPCL: KNPP1-4/TS/E Type/01 Strc. WRKG Joint 01

SCALE: 1:10

DATE: 25 May 20

PROJECT TITLE: PEDESTAL DETAILS

RELEASED FOR: CONSTRUCTION

NOTE:-

1. All Structural Drawing to be read along with Architectural Drawing
2. Upper Slab: 200 mm Thick M20 Concrete & Steel Fe 500.
3. Slab: 200 mm Thick M20 Concrete & Steel Fe 500.
4. Top & Bottom ends of the beam should be bent to degree at the end of the beam for 10% lap for 10% lap for 10% lap.
5. Typical detail of Shear Reinforcement at Beam Junctions
6. Typical detail of Shear Reinforcement at Lap
7. CLEAR COVER FOR COLUMNS-40mm BEAMS-40mm & SLAB-20mm

3. Slab Details



4. Top & Bottom ends of the beam should be bent to degree at the end of the beam for 10% lap for 10% lap for 10% lap.



6. Typical detail of Shear Reinforcement at Lap



7. CLEAR COVER FOR COLUMNS-40mm BEAMS-40mm & SLAB-20mm

Refer following Drawings along with this Drawing:-

- Architectural:-
 KKNPPI-4/TS/E Type/01 Arch. WRKG. mng. 01
 KKNPPI-4/TS/E Type/102 Arch. WRKG. mng. 01
 KKNPPI-4/TS/E Type/103 Arch. WRKG. PLAN/01

- Structural:-
 KKNPPI-4/TS/E Type/201 Strc. WRKG. mng. 01 - 09
 KKNPPI-4/TS/E Type/202 Strc. WRKG. mng. 01 - 04
 KKNPPI-4/TS/E Type/203 Strc. WRKG. mng. 01 - 05
 KKNPPI-4/TS/E Type/204 Strc. WRKG. mng. 01 - 06
 KKNPPI-4/TS/E Type/205 Strc. WRKG. mng. 01 - 07
 KKNPPI-4/TS/E Type/206 Strc. WRKG. mng. 01 - 08
 KKNPPI-4/TS/E Type/207 Strc. WRKG. mng. 01 - 09
 KKNPPI-4/TS/E Type/208 Strc. WRKG. mng. 01 - 10
 KKNPPI-4/TS/E Type/209 Strc. WRKG. mng. 01 - 11
 KKNPPI-4/TS/E Type/210 Strc. WRKG. mng. 01 - 12

- Electrical:-
 KKNPPI-4/TS/E Type/304 Elec. Still floor Layout/01-03
 KKNPPI-4/TS/E Type/305 Elec. Typ floor Layout/01-03
 KKNPPI-4/TS/E Type/306 Elec. Typ floor Layout/01

- Plumbing:-
 KKNPPI-4/TS/E Type/401 Plum. WSP Typ floor Layout/01
 KKNPPI-4/TS/E Type/402 Plum. WSP Typ floor Layout/01
 KKNPPI-4/TS/E Type/403 Plum. WSP Typ floor Layout/01
 KKNPPI-4/TS/E Type/404 Plum. WSP Typ floor Layout/01
 KKNPPI-4/TS/E Type/405 Plum. WSP Typ floor Layout/01
 KKNPPI-4/TS/E Type/406 Plum. WSP Typ floor Layout/01
 KKNPPI-4/TS/E Type/407 Plum. WSP Typ floor Layout/01
 KKNPPI-4/TS/E Type/408 Plum. WSP Typ floor Layout/01
 KKNPPI-4/TS/E Type/409 Plum. WSP Typ floor Layout/01
 KKNPPI-4/TS/E Type/410 Plum. WSP Typ floor Layout/01

- Fire Fighting:-
 KKNPPI-4/TS/E Type/503 Fire Typ floor Layout/01

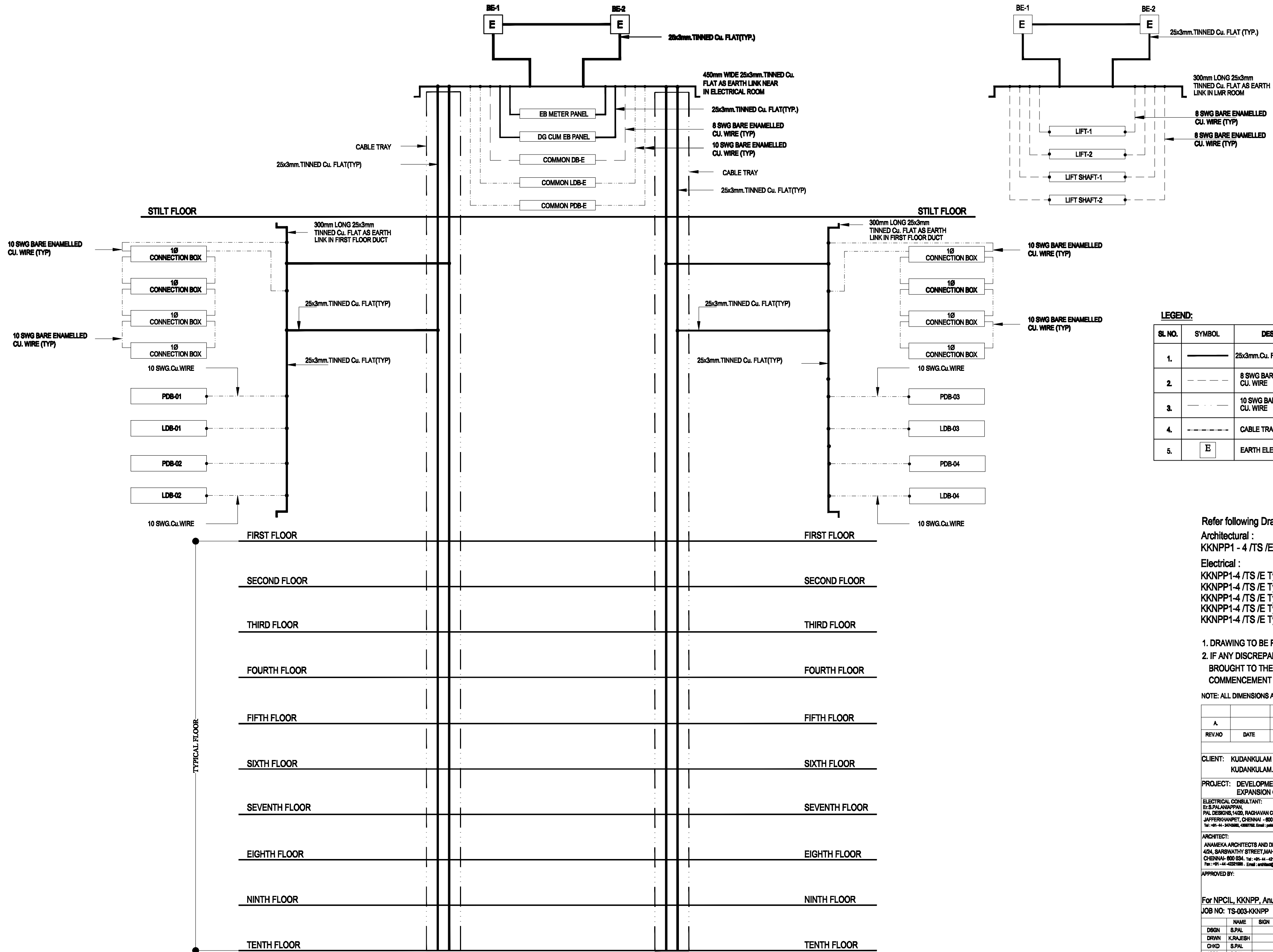
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NOTE: ALL DIMENSIONS ARE IN MILLIMETER AND LISTS ARE IN METER

NO.	DATE	REVISION	BY	CHKD	APPD
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99	15/05/2024	99	ADARSH	ADARSH	ADARSH
100	15/05/2024	100	ADARSH	ADARSH	ADARSH

S. No	Station Name	Description	Main rod	Disturbance	Thickness
1	S1	ONE WAY	BY @ 200 CC	BY @ 100 CC	125
2	S2	TWO WAY	BY @ 200 CC	BY @ 100 CC	125
3	S3	ONE WAY	BY @ 200 CC	BY @ 100 CC	125
4	S4	TWO WAY	BY @ 200 CC	BY @ 100 CC	125

TYPE E - STILL FLOOR ROOF SLAB LAYOUT

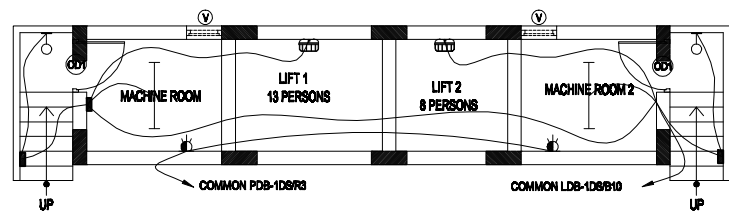


LEGEND:		
SL. NO.	SYMBOL	DESCRIPTION
1.		25x3mm.Cu. FLAT
2.		8 SWG BARE ENAMELLED CU. WIRE
3.		10 SWG BARE ENAMELLED CU. WIRE
4.		CABLE TRAY
5.		EARTH ELECTRODE

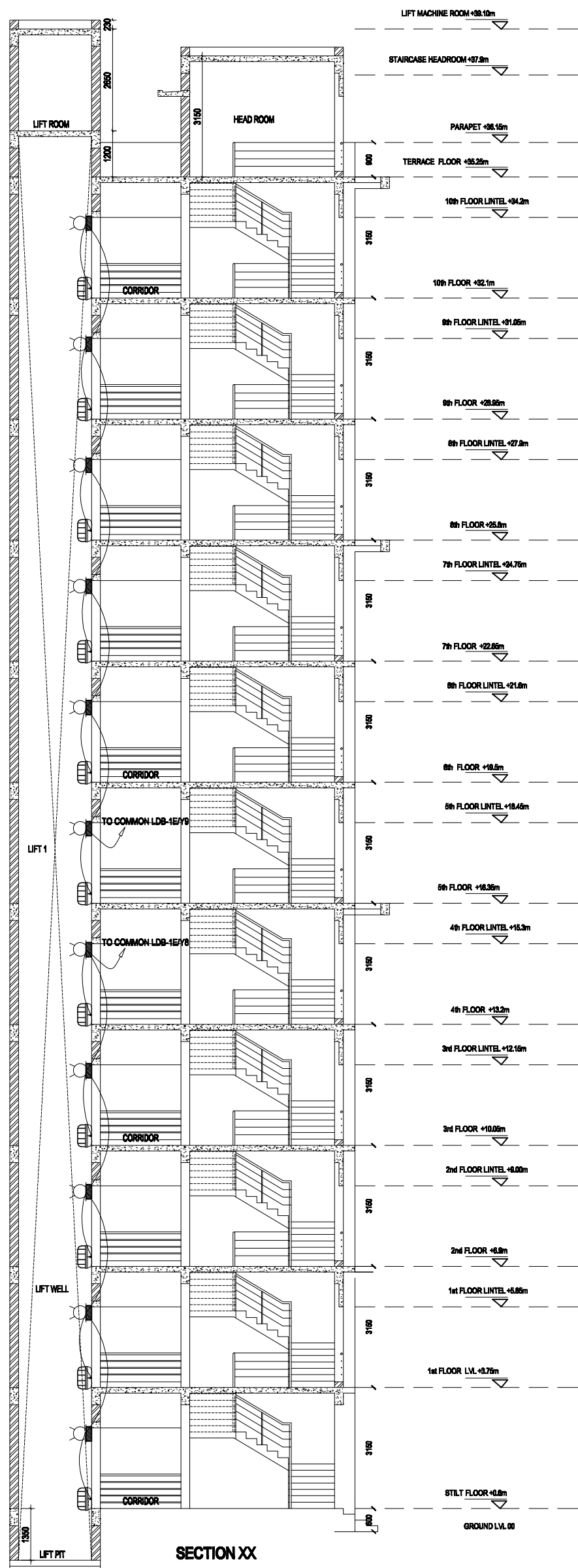
Refer following Drawings along with this Drawing:-
Architectural :
KKNPP1 - 4 /TS /Exe/103_Arch_Wrkg_Plan /01-03
Electrical :
KKNPP1-4 /TS /E Type/301_Elec_Sch.dia/ 01
KKNPP1-4 /TS /E Type/304_Elec_Stilt floor_Layout/ 01
KKNPP1-4 /TS /E Type/304_Elec_Stilt floor_Cond.Layout/ 02
KKNPP1-4 /TS /E Type/305_Elec_Typ.floor_Layout/ 01
KKNPP1-4 /TS /E Type/305_Elec_Typ.floor_Cond.Layout/ 02

1. DRAWING TO BE READ NOT TO BE MEASURED.
2. IF ANY DISCREPANCY IN THE DRAWING SHOULD BE BROUGHT TO THE NOTICE OF THE ARCHITECT BEFORE COMMENCEMENT OF THE WORK AT SITE.

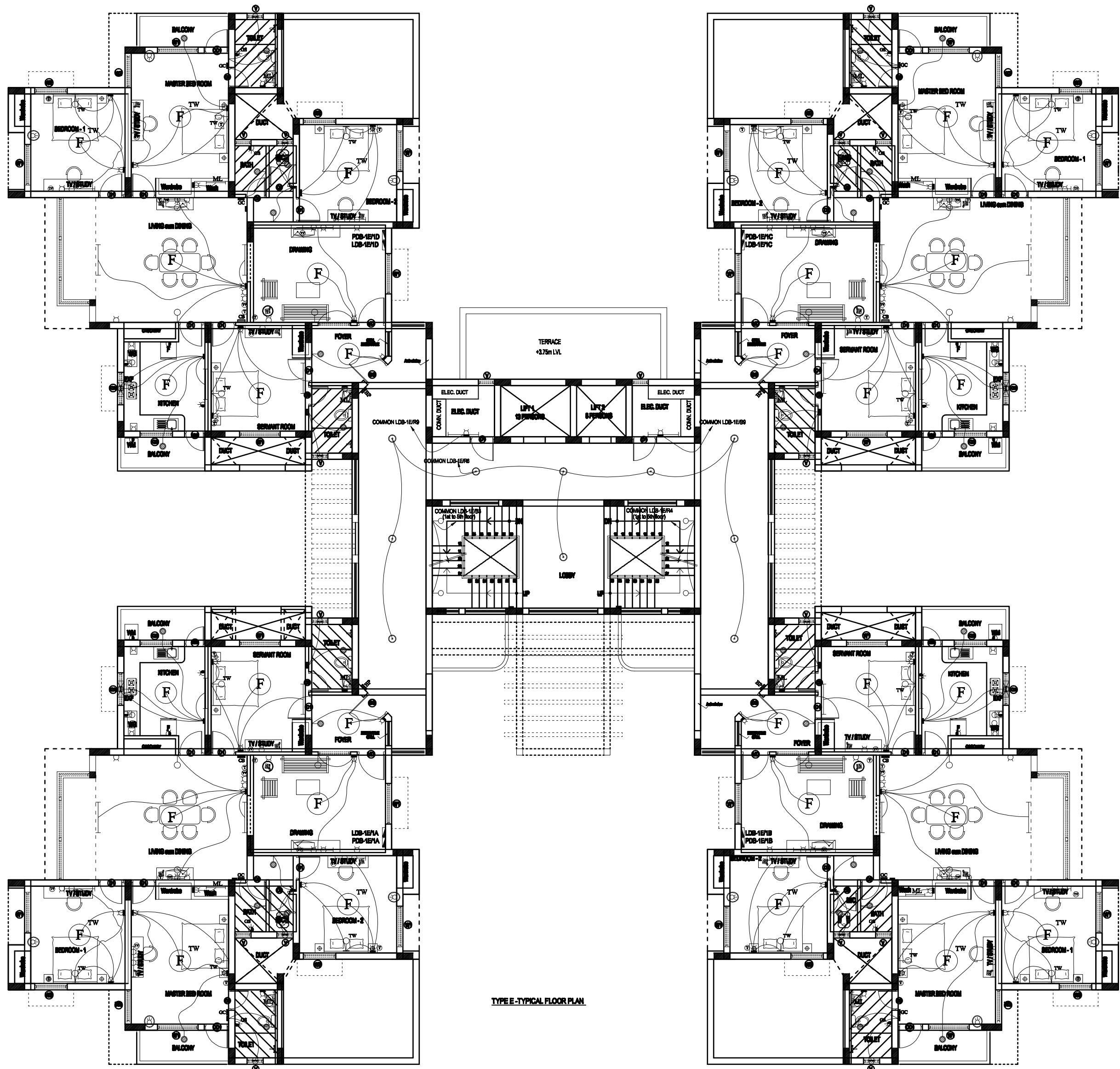
NOTE: ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER		
A.		
REV/NO	DATE	DESCRIPTION
REVISIONS		
CLIENT: KUDANKULAM NUCLEAR POWER PROJECT (NPCIL), KUDANKULAM.		
PROJECT: DEVELOPMENT OF MASTER PLAN FOR ANUVIJAY TOWNSHIP EXPANSION OF KK SITE FOR KK 1 TO 6		
ELECTRICAL CONSULTANT: E/S.PALANAPPAN, PAL DESIGNS,1420, RAGHAVAN COLONY 3RD STREET, JAFFERSVANPET, CHENNAI - 600 063. Tel: +91-44-3614585, 4387792. Email: spalanappan@gmail.com		SIGN & STAMP
ARCHITECT: ANAMEKA ARCHITECTS AND DESIGNERS, 4/24, SARASWATHY STREET,MAHALINGAPURAM, CHENNAI- 600 034. Tel: +91-44-42136881, 85188504. Fax: +91-44-42221889. Email: architeka@gmail.com		SIGN & STAMP
APPROVED BY:		
For NPCIL, KKNPP, Anuvijay Township, Chettikulam.		
JOB NO: TS-003-KKNPP		SIGN & STAMP
NAME	SIGN	DATE
DRGN S.PAL		02 Aug 10
DRWN K.RAJESH		02 Aug 10
CHKD S.PAL		02 Aug 10
APPD S.PAL		02 Aug 10
DRAWING TITLE		
EARTHING SINGLE LINE DIAGRAM FOR BLOCK-E		
SCALE: NTS		
DRG NO : KKNPP1-4 /TS /E Type/302_Elec_Ear Sld/ 01		
RELEASED FOR		CONSTRUCTION



TYPE E - LIFT MACHINE ROOM (LMR)



SECTION XX



TYPE E - TYPICAL FLOOR PLAN

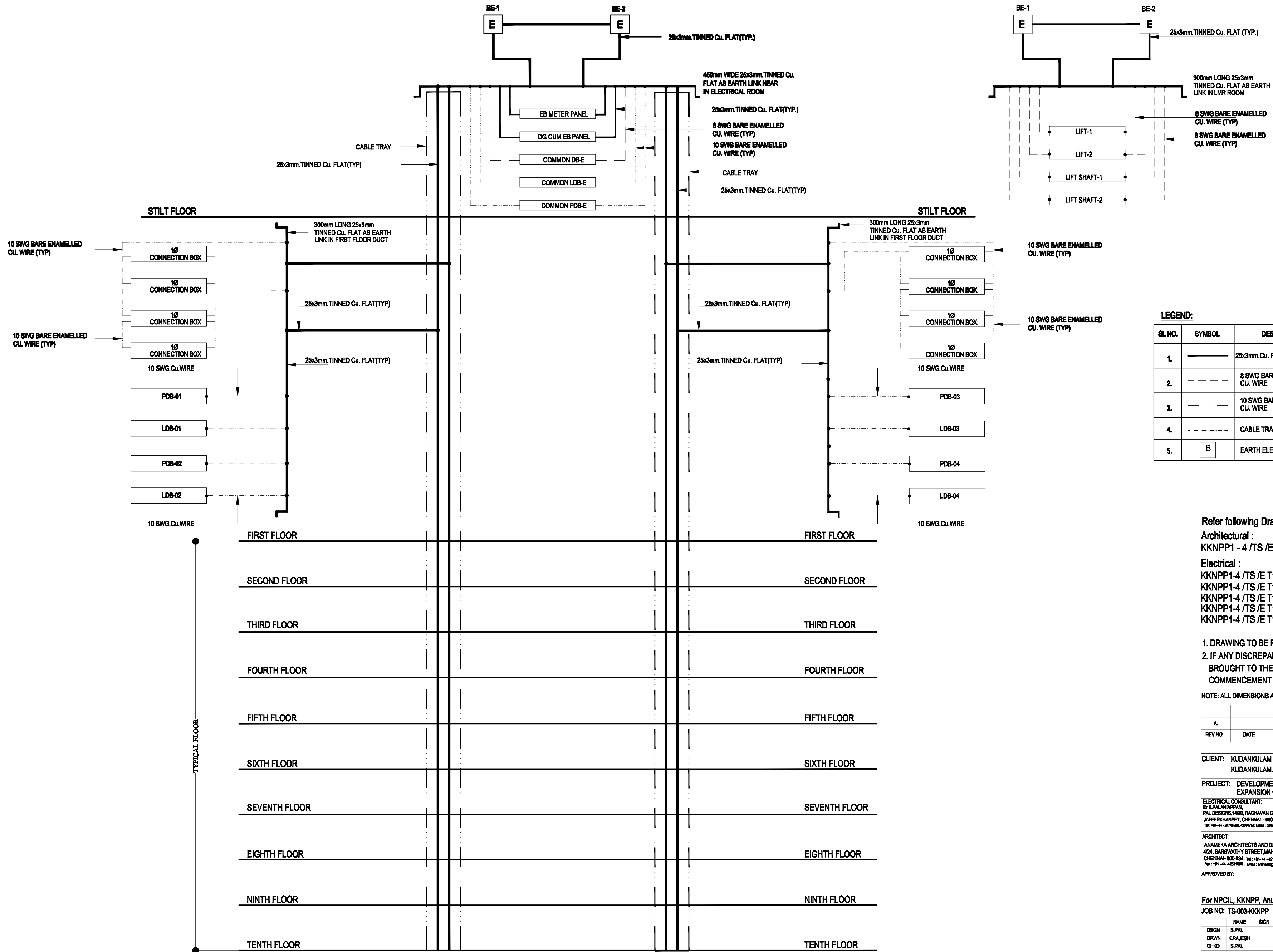
ITEM NO AS IN BOQ	LEGEND:-	Qty
11.0	1 x 36W Box type Fluorescent Light fitting	36 Nos.
17.0	Ø1400mm Ceiling fan	20 Nos.
17.0	Ø1400mm Ceiling fan (Two way)	12 Nos.
-	Exhaust fan with Wiring and Switch Control. The Exhaust fan will be provided by the occupant if they require	12 Nos.
18.0	Exhaust fan (Ø300mm)	08 Nos.
13.0	1 x 23W CFL Wall Light (Two way)	16 Nos.
13.0	1 x 23W CFL Wall Light fitting	22 Nos.
14.0	1 x 8W CFL Wall Light fitting	32 Nos.
12.0	1 x 11W Mirror Light fitting	12 Nos.
16.0	1 x 13W Ceiling Mounted type Light fitting	10 Nos.
-	5A SSC @ 700mm from FFL	64 Nos.
-	5A SSC @ 300mm from the Finished top of the Platform in Kitchen	08 Nos.
9.0	20A SPN Socket with 20A BP MCB for A/C control (Modular Type) @ 200mm from FFL	12 Nos.
8.2	Geyser socket @ 270mm below from the bottom of the beam (The top level of the switch board)	08 Nos.
8.3	Geyser control @ 1200mm from FFL	08 Nos.
8.1	5/15A SSC @ 1200mm from FFL	14 Nos.
8.1	5/15A SSC @ 300mm from the Finished top of the Platform in Kitchen	04 Nos.
-	5A SSC in Switch Board @ 1200mm from FFL	58 Nos.
21.2	Television Socket @ 700mm from FFL	28 Nos.
20.2	Telephone & Intercom Dual Socket @ 700mm from FFL	28 Nos.
-	5A SSC in Switch Board (LIFT WELL)	11 Nos.
16.0	BULK HEAD FITTINGS	13 Nos.
6.0	Ceiling fan @ 2200mm from FFL	04 Nos.
-	BELL PUSH @ 1200mm from FFL	04 Nos.
-	SWITCH BOARD @ 1200mm from FFL	

WIRING DETAILS

ITEM NO AS IN BOQ	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
AREA	L	EXP	CF	2W	3W	4W	5W	6W
FLAT A	28	4	5	3	4	16	14	-
FLAT B	28	4	5	3	4	16	14	-
FLAT C	28	4	5	3	4	16	14	-
FLAT D	28	4	5	3	4	16	14	-
COMMON	2	-	-	-	-	-	-	-
LIFT	22	-	-	-	-	-	22	-
LMR	3	-	-	-	-	-	1	-

Refer following Drawings along with this Drawing:-
 Architectural :
 KKNPP1 - 4 /TS /E Type/103_Arch_Wrkg_Plan /01-03
 Electrical :
 KKNPP1-4 /TS /E Type/305_Elec_Typ.floor_Cond.Layout/ 02
 KKNPP1-4 /TS /E Type/305_Elec_Typ.floor_Dim.Layout/ 03
 1. DRAWING TO BE READ NOT TO BE MEASURED.
 2. IF ANY DISCREPANCY IN THE DRAWING SHOULD BE BROUGHT TO THE NOTICE OF THE ARCHITECT BEFORE COMMENCEMENT OF THE WORK AT SITE.
 NOTE: ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER

REV/NO	DATE	DESCRIPTION
REVISIONS		
CLIENT: KUDANKULAM NUCLEAR POWER PROJECT (NPCIL), KUDANKULAM.		
PROJECT: DEVELOPMENT OF MASTER PLAN FOR ANUVIJAY TOWNSHIP EXPANSION OF KK SITE FOR KK 1 TO 6		
ELECTRICAL CONSULTANT: S.P.A. ANUPAM, PAL DESIGNS, 14/20, RAGHAVAN COLONY 3RD STREET, JAFERGHANPET, CHENNAI - 600 084. Tel: +91-44-2614885, 4369792. Email: s.p.a.anupam@gmail.com		SIGN & STAMP
ARCHITECT: ANAMEKA ARCHITECTS AND DESIGNERS, 42/4, SARASWATHY STREET, MAHALINGAPURAM, CHENNAI - 600 034. Tel: +91-44-4232881, 4232882. Fax: +91-44-4232885. Email: anameka@anameka.co.in		SIGN & STAMP
APPROVED BY:		
For NPCIL, KKNPP, Anuvijay Township, Chettikulam.		SIGN & STAMP
JOB NO: TS-003-KKNPP	DRAWING TITLE	SCALE: NTS
DSGN S.P.A.	SIGN	DATE
DRWN K.RAJESH		02 Aug 10
CHWD S.P.A.		02 Aug 10
APPD S.P.A.		02 Aug 10
DRG NO : KKNPP1-4 /TS /E Type/305_Elec_Typ.floor/Layout/ 01		
RELEASED FOR	CONSTRUCTION	



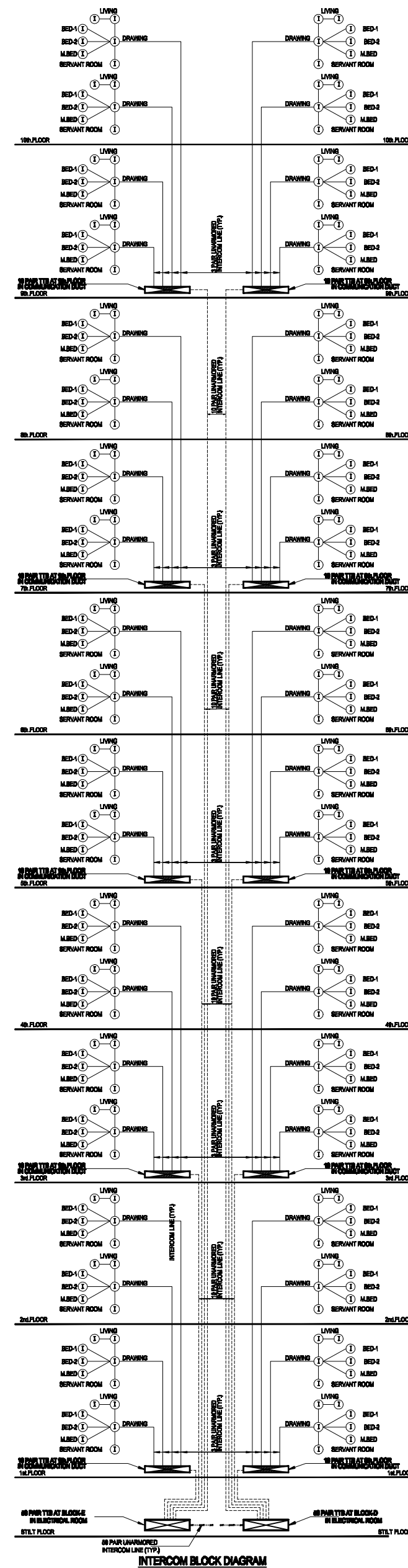
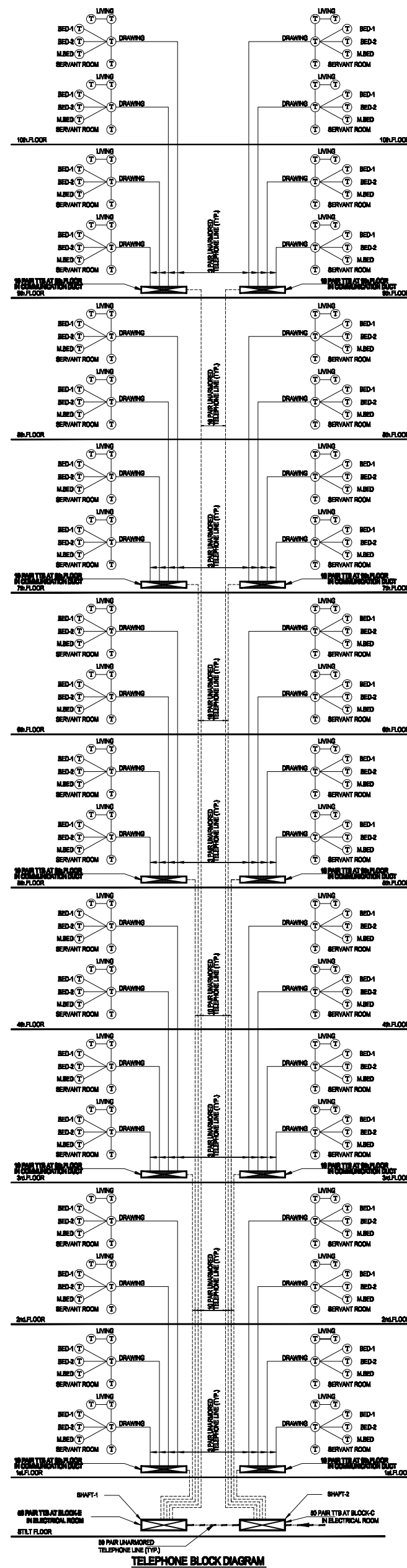
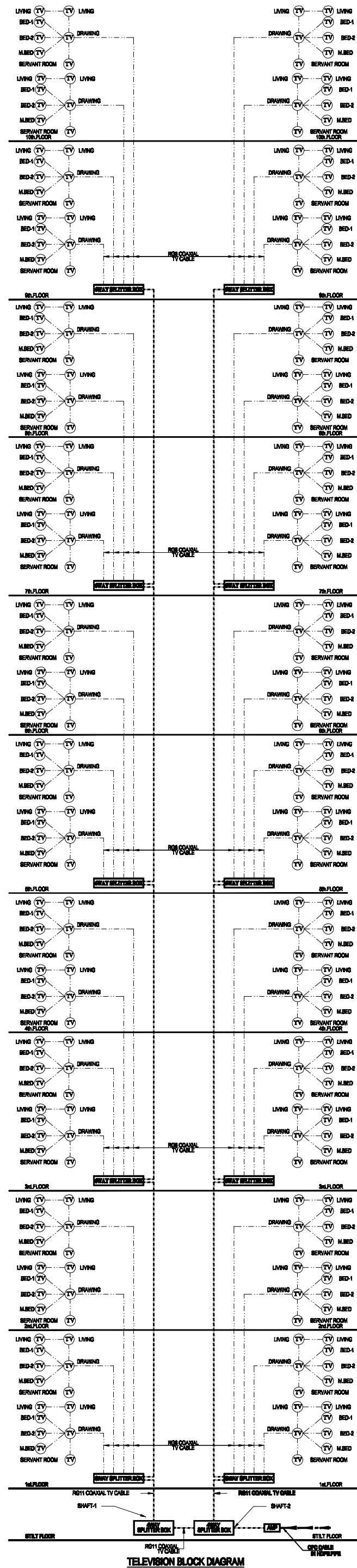
LEGEND:		
SL. NO.	SYMBOL	DESCRIPTION
1.	————	25x3mm.Cu. FLAT
2.	-----	8 SWG BARE ENAMELLED CU. WIRE
3.	-----	10 SWG BARE ENAMELLED CU. WIRE
4.	-----	CABLE TRAY
5.	E	EARTH ELECTRODE

Refer following Drawings along with this Drawing:-
Architectural :
KKNPP1 - 4 /TS /Exe/103_Arch_Wrkg_Plan /01-03
Electrical :
KKNPP1-4 /TS /E Type/301_Elec_Sch.dia/ 01
KKNPP1-4 /TS /E Type/304_Elec_Stilt floor_Layout/ 01
KKNPP1-4 /TS /E Type/304_Elec_Stilt floor_Cond.Layout/ 02
KKNPP1-4 /TS /E Type/305_Elec_Typ.floor_Layout/ 01
KKNPP1-4 /TS /E Type/305_Elec_Typ.floor_Cond.Layout/ 02

1. DRAWING TO BE READ NOT TO BE MEASURED.
2. IF ANY DISCREPANCY IN THE DRAWING SHOULD BE BROUGHT TO THE NOTICE OF THE ARCHITECT BEFORE COMMENCEMENT OF THE WORK AT SITE.

NOTE: ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER

A.		
REV/NO	DATE	DESCRIPTION
REVISIONS		
CLIENT: KUDANKULAM NUCLEAR POWER PROJECT (NPCIL), KUDANKULAM.		
PROJECT: DEVELOPMENT OF MASTER PLAN FOR ANUVIJAY TOWNSHIP EXPANSION OF KK SITE FOR KK 1 TO 6		
ELECTRICAL CONSULTANT: E/S.PALANAPPAN, PAL DESIGNS,1420, RAGHAVAN COLONY 3RD STREET, JAFFERSVANPET, CHENNAI - 600 063. Tel: +91-44-3614585, 4387792. Email: spalanappan@gmail.com		SIGN & STAMP
ARCHITECT: ANAMEKA ARCHITECTS AND DESIGNERS, 4/24, SARASWATHY STREET,MAHALINGAPURAM, CHENNAI- 600 034. Tel: +91-44-42186801, 85188504. Fax: +91-44-42221880. Email: architeka@gmail.com		SIGN & STAMP
APPROVED BY:		
For NPCIL, KKNPP, Anuvijay Township, Chettikulam.		
JOB NO: TS-003-KKNPP		SIGN & STAMP
NAME	SIGN	DATE
DRGN S.PAL		02 Aug 10
DRWN K.RAJESH		02 Aug 10
CHKD S.PAL		02 Aug 10
APPD S.PAL		02 Aug 10
DRAWING TITLE		
EARTHING SINGLE LINE DIAGRAM FOR BLOCK-E2		
SCALE: NTS		
DRG NO : KKNPP1-4 /TS /E Type/302_Elec_Ear Sld/ 02		
RELEASED FOR		CONSTRUCTION



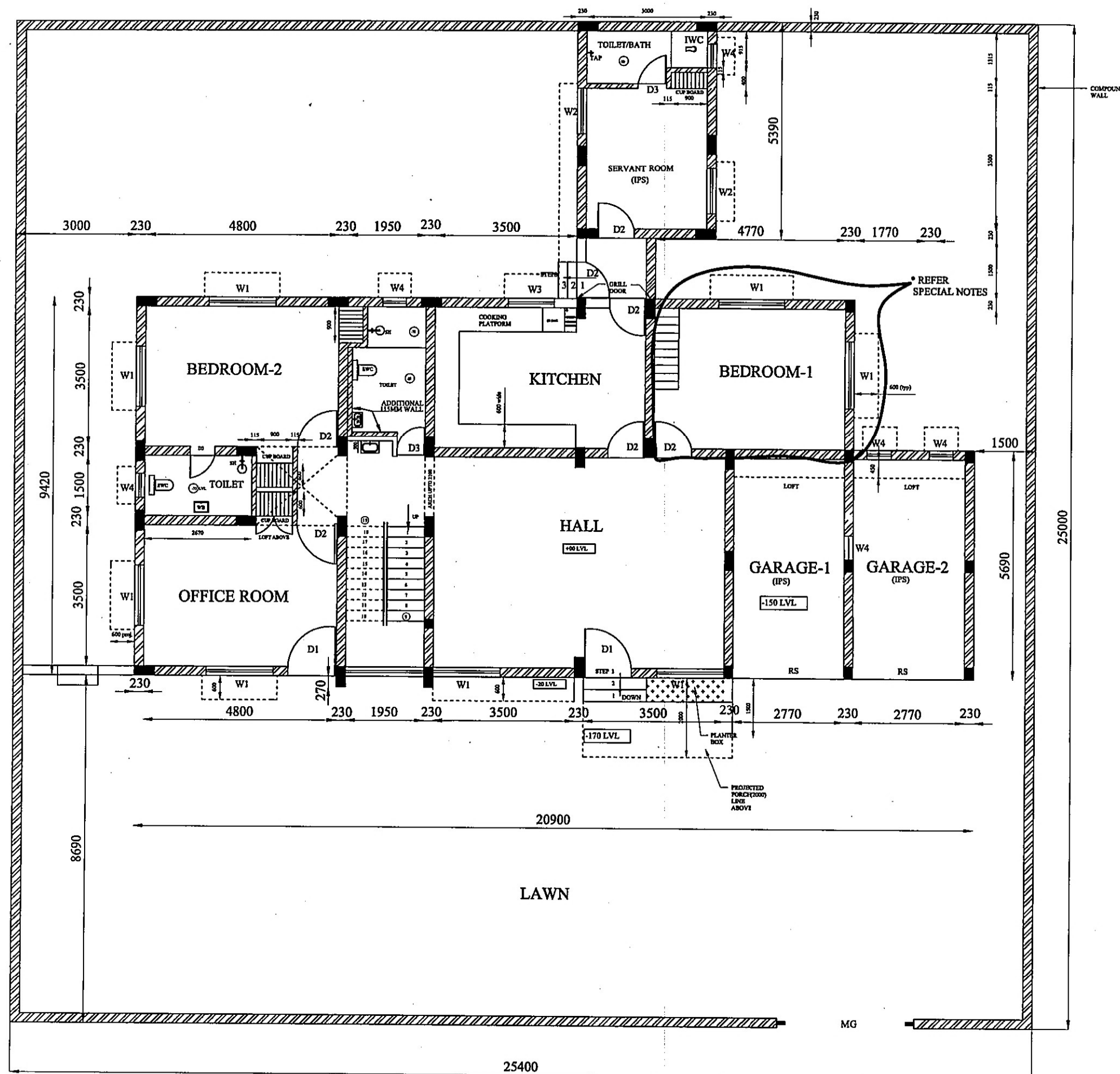
Refer following Drawings along with this Drawing:-

Electrical :
KKNPP1 - 4 /TS /E Type/301_Elec_Sch.Dia/ 01
KKNPP1 - 4 /TS /E Type/301_Elec_Sch.Layout/02

1. DRAWING TO BE READ NOT TO BE MEASURED.
2. IF ANY DISCREPANCY IN THE DRAWING SHOULD BE BROUGHT TO THE NOTICE OF THE ARCHITECT BEFORE COMMENCEMENT OF THE WORK AT SITE.

NOTE: ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER

A.		
REVNO	DATE	DESCRIPTION
REVISIONS		
CLIENT: KUDANKULAM NUCLEAR POWER PROJECT (NPCIL), KUDANKULAM.		
PROJECT: DEVELOPMENT OF MASTER PLAN FOR ANUVIJAY TOWNSHIP EXPANSION OF KK SITE FOR KK 1 TO 6		
ELECTRICAL CONSULTANT: B.S.PALANAPPAN, PAL DESIGNS, 14/26, RAGHAVAN COLONY 3RD STREET, JAFFERWAMPET, CHENNAI - 600 082. Tel: +91-44-4210881, 8958894. Fax: +91-44-4210886. Email: palanappan@gmail.com		
ARCHITECT: ANAMEKA ARCHITECTS AND DESIGNERS, 4/24, SARASWATHY STREET, MAHALINGAPURAM, CHENNAI-600 034. Tel: +91-44-4210881, 8958894. Fax: +91-44-4210886. Email: anameka@gmail.com		
APPROVED BY:		
For NPCIL, KKNPP, Anuvijay Township, Chettikulam.		
JOB NO: TS-003-KKNPP		SCALE: NTS
DSGN	NAME	DATE
DRWN	K.RAJESH	02 Aug 10
CHD	S.PAL	02 Aug 10
APPD	S.PAL	02 Aug 10
DRG NO : KKNPP1-4 /TS /E Type/303_Elec_Bi Dia_Telecom/ 01		
RELEASED FOR		CONSTRUCTION



D1	1000X2100MM
D2	900X2100MM
D3	750X2100MM
W1	1668X1416MM
W2	1416X1132MM
W3	1116X1132MM
W4	450X900MM

NOTES:-

1. ALL DIMENSIONS ARE IN 'MM'
2. WALLS ARE 230mm THK BRICK MASONRY IN CM 1:6
3. INTERNAL PARTITION WALLS 115 THK BRICK MASONRY.
4. DOORS / WINDOWS ARE TO BE FABRICATED AS PER SPECIFICATION.

SPECIAL NOTES:-

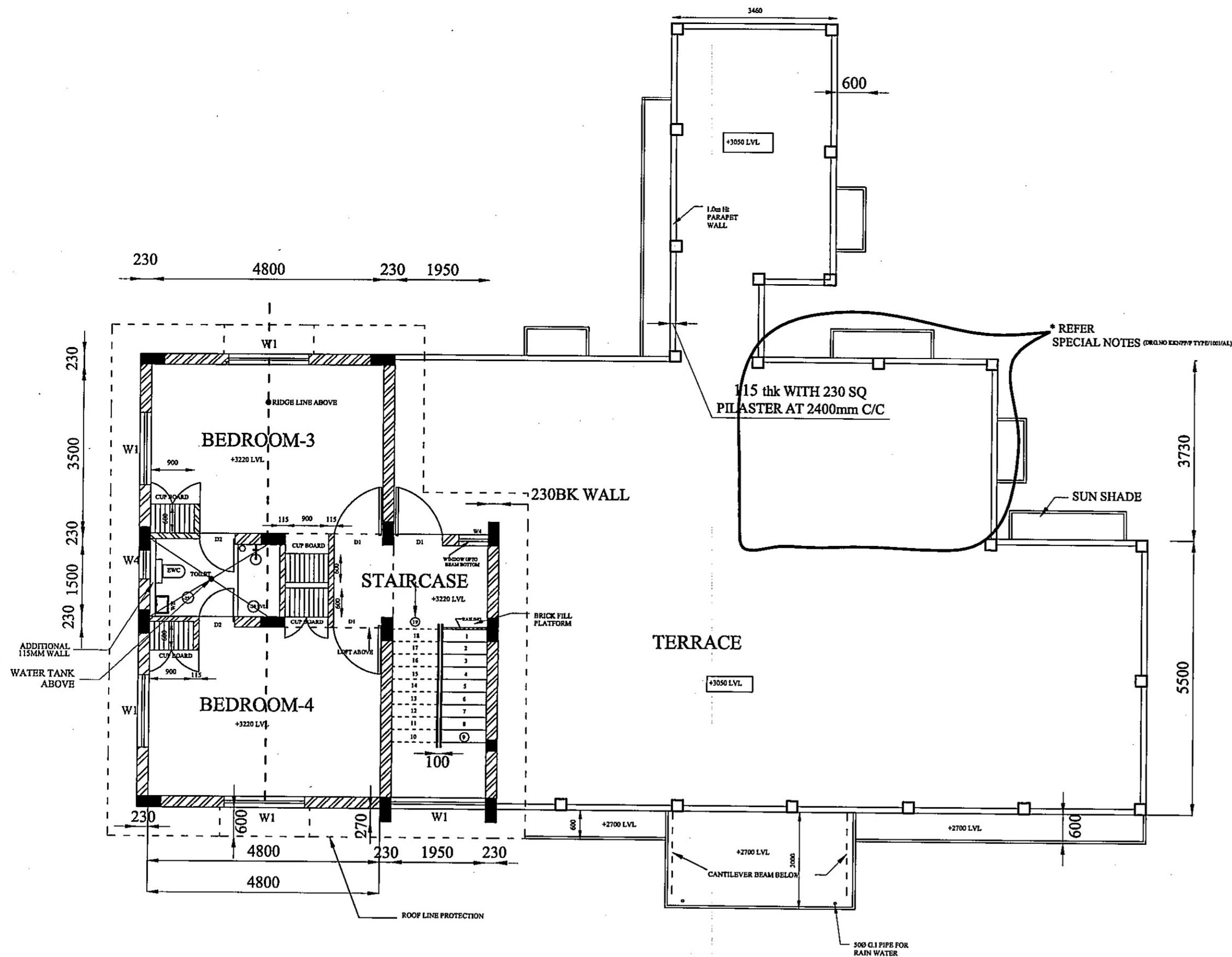
- * ADDITIONAL OFFICE ROOM, BED ROOM IS TO BE CONSTRUCTED FOR THE QUARTER OF PD/SD ONLY.
- * DCN's ISSUED FOR STRUCTURAL DRGS ARE TO BE REFERRED.


LEGEND:-

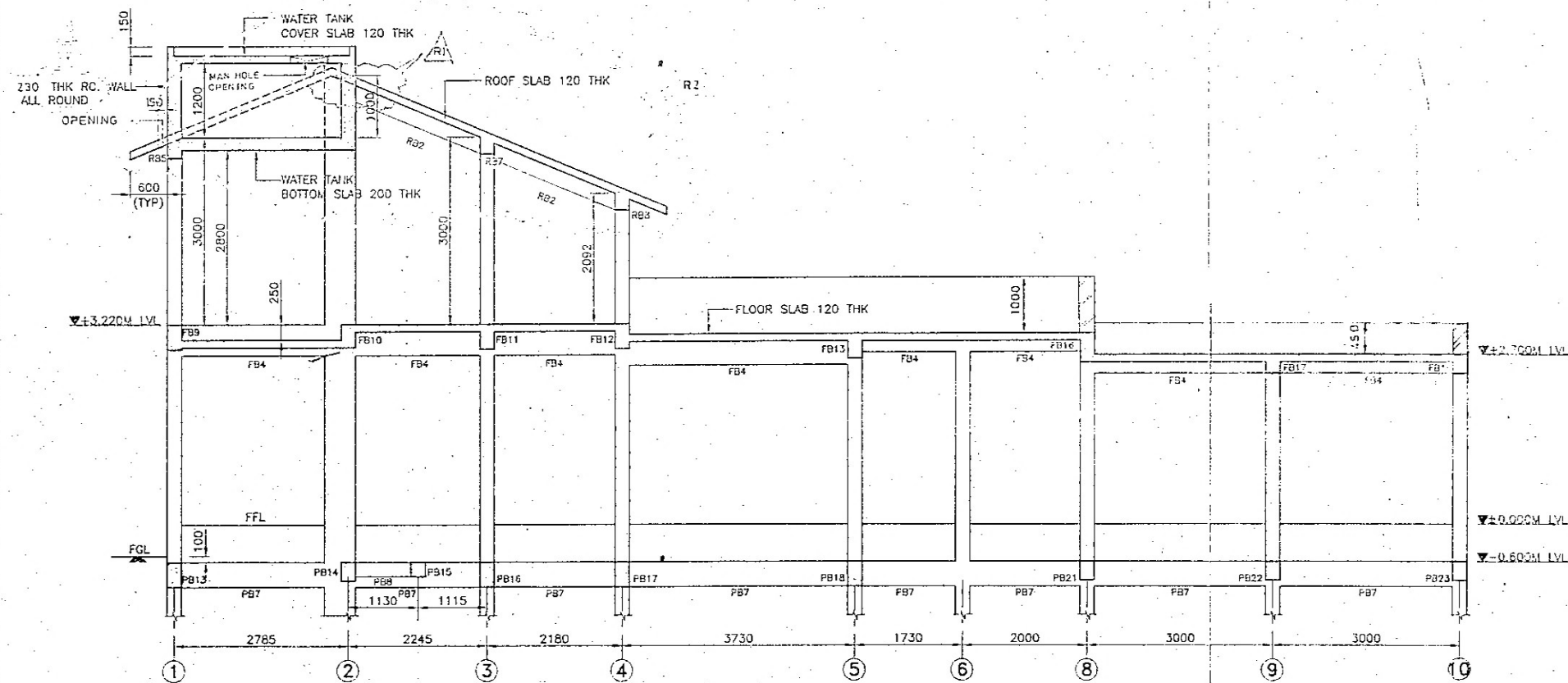
- D - DOOR
W - WINDOW
RS - ROLLING SHUTTER
WB - WASH BASIN
SH - SHOWER
IPS - INDIAN PATENT STONE
MG - MAIN GATE
EWC - EUROPEAN WATER CLOSET

0	RELEASED FOR CONSTRUCTION	27-04-06
REV	DESCRIPTION	
<p>चुनिलयार पावर कारपोरेशन (भारत सरकार का धर्मन)</p> <p>SO/E-Field Engineer (Civil)</p> <p>NUCLEAR POWER CORPORATION OF INDIA LIMITED</p> <p>(A GOVERNMENT OF INDIA ENTERPRISE)</p> <p>KUDANKULAM NUCLEAR POWER PROJECT</p>		
<p>TITLE</p> <p>HOUSING - TYPE 'F'</p> <p>ARCHITECTURAL FLOOR 'F' PLAN AT 0.00M FLOOR LVL</p>		
DRN.	C.MANIKANDAN	DES'D.
DRG.CHK'D.	G.BALAKRISHNAN	TRD.
PROJECT.	KK TOWNSHIP	SCALE: N.T.S
COMPUTER FILE NAME - MSF		PROJECTION:
DRG.NO: KKNPP/F TYPE/1001/AL		R0

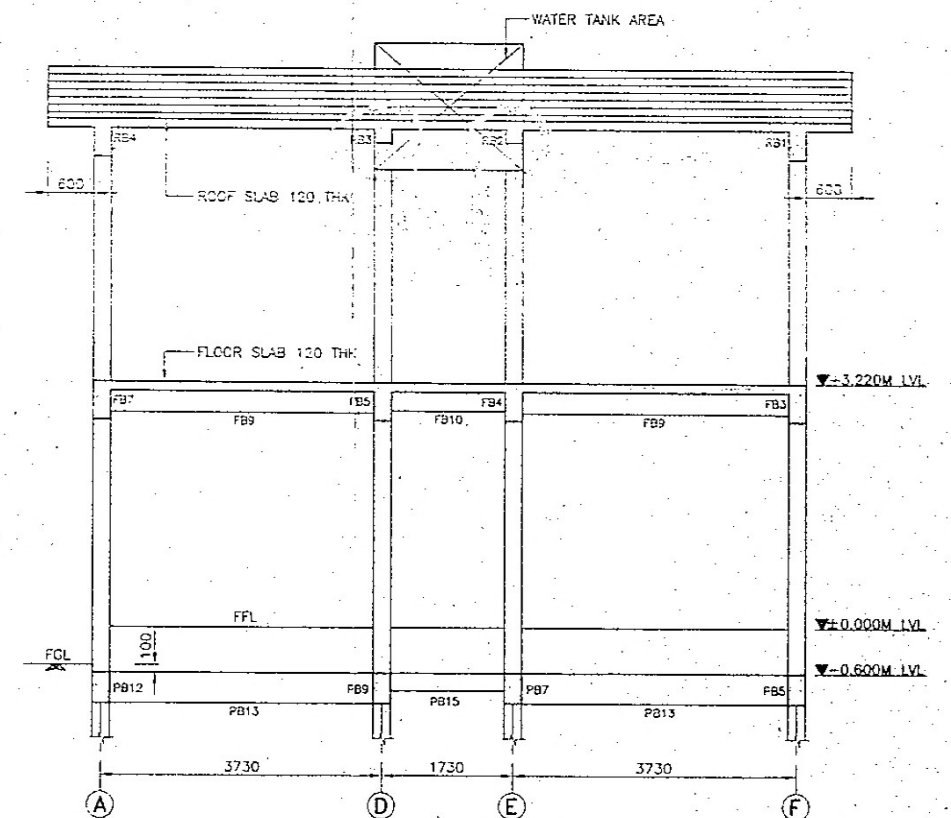
PLAN-FLOOR 2



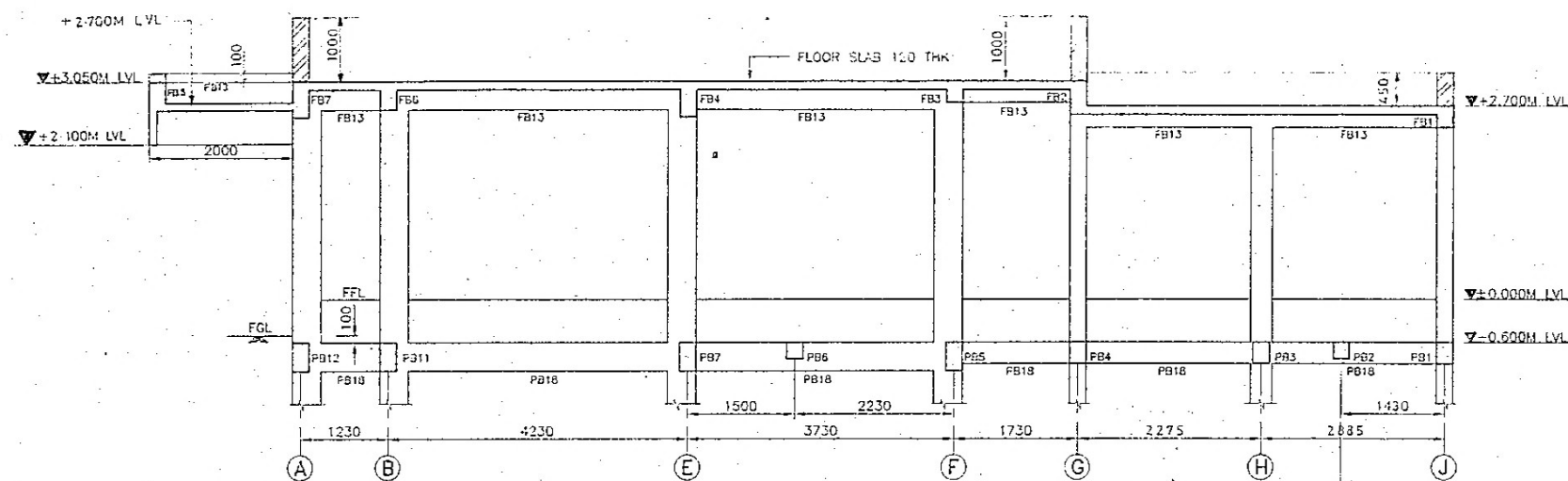
0	RELEASED FOR CONSTRUCTION			27/10/06
REV	DESCRIPTION	G. BALAKRISHNAN		
	न्यूक्लियर पावर कॉर्पोरेशन लिमिटेड Engineer (Civil) (भारत सरकार का प्रभुत्व) NUCLEAR POWER CORPORATION OF INDIA LIMITED (A GOVERNMENT OF INDIA ENTERPRISE) KUDANKULAM NUCLEAR POWER PROJECT			
	TITLE <u>HOUSING - TYPE F</u>			
	ARCHITECTURAL FLOOR 2' PLAN AT +3.050M LVL			
	DR'N. C.MANIKANDAN	DES'D.	DES'CHK'D.	DATE
DRG.CHK'D. G.BALAKRISHNAN	TRD.	APP'D.	DATE	
PROJECT. KK TOWNSHIP		SCALE : N.T.S		
COMPUTER FILE NAME - MSF		PROJECTION :		
DRG.NO: KKNPP/F TYPE/1002/AL			R0	



SECTION A-A
SCALE 1:50



SECTION B-B
SCALE 1:50



SECTION C-C
SCALE 1:50

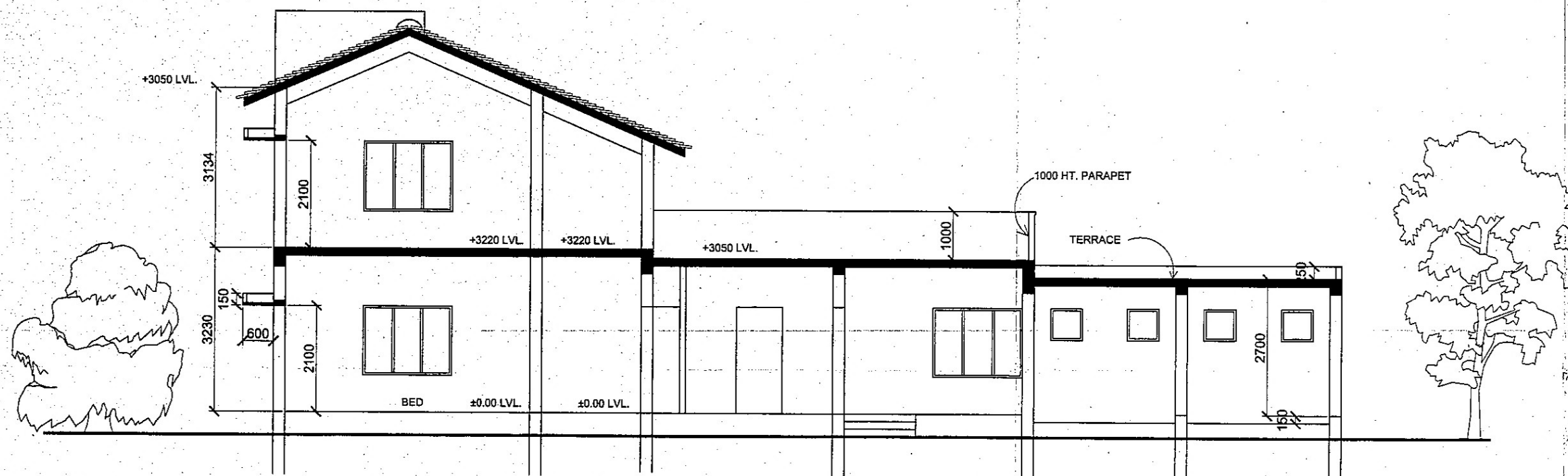
NOTES:-

1. ALL DIMENSIONS ARE IN 'MM' AND LEVELS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. NO DIMENSION SHALL BE SCALED OFF FROM THE DRAWING.
3. FOR OTHER NOTES REFER DRG.NO: NPC-CH/852 F/ K K /2003/DD.


REFERENCE DRAWINGS:-

1. NPC-CH/852 F/ K K /2001 & 2002/DD.
2. NPC-CH/852 F/ K K /2004/DD.

0	RELEASED FOR CONSTRUCTION	4-12-2003	
REV	DESCRIPTION	DATE	CHKD BY
PROJECT			
K K TOWNSHIP			
TITLE			
QUARTERS TYPE-F SECTION A-A, SECTION B-B & SECTION C-C			
DRAWN	SURESH	CHKD	(R BHASKAR)
DESIGNED	G. BALAKRISHN	CHKD	G. BALAKRISHN
APPROVED			
DRG.NO: NPC-CH/852 F/ K K /2003/DD			
NUCLEAR POWER CORPORATION (A GOVERNMENT OF INDIA ENTERPRISE)			
DIRECTORATE OF INFRASTRUCTURE 51, MONNETH ROAD, SECURE, CHENNAI-600 009.			
REV	DESCRIPTION	DATE	CHKD BY



SECTION "A A"

	RELEASED FOR CONSTRUCTION			
REV.0	RELEASED FOR TENDER		28.02.01	
REV.NO	DESCRIPTION		DATE	APPD BY
USI No.				
PROJECT K K TOWNSHIP		TITLE HOUSING TYPE F SECTION		
DEALT	DRG.NO	NPCIL-CH / 480F / 1004/ AL / R-0		
ARCHITECT	DATE: 29.12.2000	CHIEF ARCHITECT		
	SCALE: 1:100			
		NUCLEAR POWER CORPORATION OF INDIA LTD (A GOVERNMENT OF INDIA ENTERPRISE) DIRECTORATE OF INFRASTRUCTURE 51, MONTIETH ROAD, CHENNAI-600 008.		

Kudankulam Nuclear Power Project	Construction of 203 Nos of Residential Quarters comprising of 40 Nos of E-type (G+10 floor-1 Tower), 80 Nos of D-Special quarters (G+10 floor-2 Tower), 80 Nos of B-type quarters (G+10 floor-2 Tower) and 3 Nos of F Type quarters (G+1 floor) at Anuvijay Township.
----------------------------------	---

SECTION- VII

SCHEDULE 'B'

MATERIAL ISSUED TO THE CONTRCTOR

Sl. No	Particulars	Unit	Rate at which Material will be issued	Maximum Invisible wastage (Non-Returnable) %	Maximum permissible wastage (Returnable in case of free issue) %*	Qty to be Issued (approx.)
-----NA-----						

* This percentage can vary as per the cutting plan approved by Engineer-in-Charge

Signature of Issuing Officer :

Signature of Contractor:

Date :

Date :

SECTION VII
SUPPLY OF MATERIALS

SECTION VIII
SCHEDULE OF QUANTITIES

Kudankulam Nuclear Power Project	Construction of 203 Nos of Residential Quarters comprising of 40 Nos of E-type (G+10 floor-1 Tower), 80 Nos of D-Special quarters (G+10 floor-2 Tower), 80 Nos of B-type quarters (G+10 floor-2 Tower) and 3 Nos of F Type quarters (G+1 floor) at Anuvijay Township.
----------------------------------	---

NUCLEAR POWER CORPORATION OF INDIA LTD.
(A Govt. of India Enterprise)
Kudankulam Nuclear Power Project

PART-II

TENDER NO: NPCIL/KK-5&6/CONST/ CIVIL-INFRA/PT/2026/49

Name of work : Construction of 203 Nos of Residential Quarters comprising of 40 Nos of E-type (G+10 floor-1 Tower), 80 Nos of D-Special quarters (G+10 floor-2 Tower), 80 Nos of B-type quarters (G+10 floor-2 Tower) and 3 Nos of F Type quarters (G+1 floor) at Anuvijay Township.

SCHEDULE OF QUANTITIES AND RATES

1. Details of all the items in this schedule shall be read in conjunction with the corresponding specification and drawings.
2. Bidder may also thoroughly read NIT (Section-I) clause 11.0 Bid prices, rates & taxes and clause 12.0 Currency of bid price and payment.

Section - VIII	Schedule of Quantities	Page 1 of 1
----------------	------------------------	-------------

Tender Inviting Authority: Executive Director (P-LWR)

Name of Work: Construction of 203 Nos of Residential Quarters comprising of 40 Nos of E-type (G+10 floor-1 Tower), 80 Nos of D-Special quarters (G+10 floor-2 Tower), 80 Nos of B-type quarters (G+10 floor-2 Tower) and 3 Nos of F Type quarters (G+1 floor) at Anuvijay Township

e-Tender No: NPCIL/KK-5&6/CONST/CIVIL-INFRA/PT/2026/49

Bidder Name :							
PRICE SCHEDULE							
NUMBER	TEXT #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	SOQ Item No (NPCIL Reference No)	Quantity	Units	Quoted item RATE In Figures To be entered by the Bidder (in Rs)	Quoted item AMOUNT With Taxes (in Rs)	TOTAL AMOUNT In Words
1	2	3	4	5	13	54	55
1	Earth work excavation by mechanical means(hydraulic excavator)/manual means in over areas, rafts, foundation, trenches, roads etc in all types of soils below ground level of all depths including shoring, strutting, bailing / pumping of water, leveling, ramming the bottom of excavation, refilling with selected excavated materials in the sides of the foundation in layers and refilling the areas as directed with the balance available excavated earth (filling/compacting in layers of not more than 150 mm thick compacted layer, each layer well rammed, watered and consolidated) etc complete all as per drawings and specifications.	A1	14380	Cu. Meter		0.00	INR Zero Only
2	Earth work excavation by mechanical means(hydraulic excavator)/manual means in Soft rock in over areas, raft , foundation, trenches etc including shoring, shrutting wherever required bailing/pumping of water, leveling the bottom of excavation and refilling with selected excavated materials in the sides of the foundation in layers and refilling the areas as directed with the selected balance available excavated earth (filling/compacting in layers of not more than 150 mm thick compacted layer, each layer well rammed, watered and consolidated) etc complete all as per drawings and specifications	A2	3900	Cu. Meter		0.00	INR Zero Only
3	Earth work excavation by mechanical means(hydraulic excavator)/manual means in hard rock by chiselling (blasting prohibited) in over areas, raft, foundation, trenches etc including shoring, shrutting wherever required bailing/pumping of water, leveling the bottom of excavation and stacking the excavated material at places as directed within a lead of 2 kms as per drawings and specifications (Only stack measurement will be made and paid for)	A3	90	Cu. Meter		0.00	INR Zero Only
4	Conducting static plate load test on soil as per IS-1888 of latest revision and specifications at the founding level including cost of all equipments, materials, labours and preparation and submission of test report. [Estimated SBC is 300 KN/Sqm].	A4	4	No.		0.00	INR Zero Only
5	Providing Pre-construction anti-termite treatment as per IS-6313 using chlorpyrifos emulsifiable concentrate 20 % with 1 % concentration as per specifications. Note: The contractor shall furnish from the agency carrying out this work under this item a written guarantee in favour of NPCIL for the satisfactory performance of the treatment for a period of five years.	A5	3908	Sq. Meter		0.00	INR Zero Only
6	Filling with selected earth brought from a lead of 2Km (source as directed by NPCIL inside colony). Selected earth to be loaded and transported from the source using mechanical means (Excavator & tipper etc) and filling/compacting in each layers of not more than 150 mm thick compacted layer, each layer well rammed, watered and consolidated all as per drawings and specifications.	A6	16500	Cu. Meter		0.00	INR Zero Only
7	Providing and filling with crushed sand of approved quality as per drawings and specifications	A7	685	Cu. Meter		0.00	INR Zero Only
8	Providing, laying, spreading and compacting graded stone aggregate (size range53 mm to 0.075 mm) to wet mix macadam (WMM) specification including premixing the material with water at OMC in mechanical mix plant, carriage of mixed material by tipper to site, for all leads & lifts, laying in uniform layers with mechanical paver finisher/manual means in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity for open area works & other vibratory arrangements inside building areas to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge, as per clause 406 of MORT & H specifications complete in all respects.	A8	4790	Sq. Meter		0.00	INR Zero Only

9	Providing and laying plain cement concrete 1:4:8 using 40 mm and down graded stone aggregate at all height including mechanical mixing, leveling, compaction, vibrating, finishing smooth the exposed surfaces of concrete, curing etc complete as per drawings and standard specifications.	A9	1223	Cu. Meter		0.00	INR Zero Only
10	Providing and laying plain cement concrete 1:2:4, using 20 mm and down graded stone aggregate at all height including mechanical mixing, leveling, compaction, vibrating, finishing smooth the exposed surfaces of concrete, curing etc complete as per drawings and standard specifications.	A10	464	Cu. Meter		0.00	INR Zero Only
11	Providing and laying M30/M35 Design mix concrete with cement content up to 350kg/Cum using 20mm and down graded stone aggregates, admixtures including Mixing, Ramming, Compaction, leveling, curing, placing at all lifts/elevations, including scaffolding and Finishing smooth all exposed faces complete as per specification.	A11	14025	Cu. Meter		0.00	INR Zero Only
12	Adjustment of cement used less/more than the specified quantity	A12	90000	Kg		0.00	INR Zero Only
13	Providing, placing in position and removing Form work for all insitu concrete works including scaffolding etc., complete at all elevations/heights as per drawing and specification (measurement for form work shall be the area of forms in contact with concrete surfaces)	A13	99300	Sq. Meter		0.00	INR Zero Only
14	Providing cutting, bending placing and tying mild steel, high yield steel reinforcement in RCC works including providing spacer blocks in CM 1:2, binding wires etc. complete at all elevations as per drawings and specifications including dewatering wherever necessary etc complete as per drawings and specifications	A14	2623	MT		0.00	INR Zero Only
15	Supply and Fixing in position 25mm thick Cement bonded Particle board (Bison board) of brands NCL/Hindustan Plywood Co/Ramco/Everest and required sizes for wardrobe shelves. The cost inclusive of material, labour, tools & tackles including Fixing the board on the brickwall/concrete area in position and finishing the edges smooth etc complete as per drawings and specifications	A15	2600	Sq. Meter		0.00	INR Zero Only
16	Cement Concrete Block Masonry works	A16					
17	Providing and constructing cement concrete block masonry of minimum M5 grade conforming to IS-2185 of latest version, using solid blocks of approved size in cement mortar 1:4 by volume, for walls below plinth and locations including racking out joints, curing etc complete as per specification	A16.1	1025	Cu. Meter		0.00	INR Zero Only
18	Providing and constructing cement concrete block masonry of minimum M5 grade conforming to IS-2185 of latest version, using solid blocks of approved size in cement mortar 1:4 by volume, for walls in super structure for all locations and elevations including scaffolding, racking out joints, curing etc complete as per drawings and specifications	A16.2	6945	Cu. Meter		0.00	INR Zero Only
19	Providing and constructing 100mm thick cement concrete block masonry of minimum M5 grade conforming to IS-2185 of latest version, using solid blocks of approved size in cement mortar 1:4 by volume, including providing 40mm thick Cement Concrete 1:2:4 (including form work) at every third layer, for partition walls at all elevations and locations including scaffolding, racking out joints, curing etc complete as per specifications and drawing	A16.3	15850	Sq. Meter		0.00	INR Zero Only
20	Providing and constructing Random Rubble masonry in CM 1:6 using hard granite stones including hammer dressing the stones, providing bond stones as per specifications, raking out the joints, scaffolding, curing etc., complete as per specifications.	A17	75	Cu. Meter		0.00	INR Zero Only
21	Providing and laying brick bat coba made in the proportion of 1:2.5 (1 part of slaked lime/cement, 2.5 parts of 20mm minimum size broken burnt clay brick jelly/broken AAC Blocks of approved quality) filling in sunken floors including beating, consolidating, mixing, compacting, finishing, curing all complete as per drawings and specifications	A18	1385	Cu. Meter		0.00	INR Zero Only

22	Plastering of external faces (using Crushed Sand/M.Sand) of brick work/concrete at all elevations in cement mortar 1:4, 20 mm thick (in two coats) mixed with nano composite plaster additive Sylocon of M/s ANN world (Proportion @ 1 litre/50 kg of cement bag) Or manufacturers recommended proportions of TOP Plast IP of M/s Confix India Or M/s Fosroc, including scaffolding at all elevations, curing, forming grooves, plaster bands, border, keystone etc wherever required all as per drawings and specifications	A19	57700	Sq. Meter		0.00	INR Zero Only
23	Providing cement plaster for the internal faces (using Crushed Sand/M.Sand) of brickwork / concrete at all elevations in cement mortar 1:5, 12mm thick mixed with nano composite plaster additive Sylocon of M/s ANN world (Proportion @ 1 litre/50 kg of cement bag) Or manufacturers recommended proportions of TOP Plast IP of M/s Confix India Or M/s Fosroc, finished smooth including scaffolding, finishing, curing, forming grooves wherever necessary all complete as per drawings and specifications	A20	87630	Sq. Meter		0.00	INR Zero Only
24	Providing cement plaster for the ceiling (using Crushed Sand/M.Sand) with 6 mm thick in cement mortar 1:3 at all elevations including hacking and preparing the surface, scaffolding, finishing, curing etc all complete as per drawings and specifications	A21	30340	Sq. Meter		0.00	INR Zero Only
25	Providing sand faced/plain water proof cement plaster 20mm thick (in two coats) in cement mortar 1:3 mixed with waterproofing compound FOSROC/ROFF/Dr.Fixit/ SIKA/BASF/Bostic make consumption as per manufacturers specifications including finishing with a floating coat of neat cement, scaffolding, curing as per drawings and specifications	A22	870	Sq. Meter		0.00	INR Zero Only
26	Providing and Fixing 20mm thick Exterior grade designer tiles of approved colour and design over 20mm thick base cement mortar 1:4 laid and pointed with white cement slurry mixed with pigments to match with the shade of the tile including rubbing, curing, in Steps (both tread & riser), Walkway areas, Entrances etc., as per drawings and specifications (Note: Minimum price of Tile shall be of Rs.40/Sq.ft-excluding GST)	A23	2703	Sq. Meter		0.00	INR Zero Only
27	Providing and laying M40 grade 80 mm thick interlocking precast concrete pavers blocks as per relevant IS of approved shape over a profiled layer to the required line, pattern etc., all as per drawings and specifications (Note:Minimum price of Paver block shall be of Rs.44/Sq.ft-excluding GST)	A24	4075	Sq. Meter		0.00	INR Zero Only
28	Providing and Fixing in position vitrified (Soluble salt) floor/skirting tiles of JOHNSON/ SOMANY/ REGENCY/NITCO/BELL/ KAJARIA/AGL/CERA/ SIMPOLA/ HSIL/VERMORA/ BONZER7/PAVIT make of size not less than 600x600 mm, thickness not less than 8mm of approved colours as per the design including setting in cement mortar 1:4, 20 mm thick base layer and fixing with adequate cement slurry/paste, pointing the joints neatly with white cement with pigment to match with tiles, all as per drawings and specifications (Note:Minimum price of Tile shall be of Rs.60/Sq.ft-excluding GST)	A25	22780	Sq. Meter		0.00	INR Zero Only
29	Ceramic tiles flooring	A26					
30	Providing and Fixing in position ceramic unglazed floor tiles of size 600 x 600 mm as specified below (thickness to be specified by the manufacturer) of premium quality confirming to IS-15622 of JOHNSON/ SOMANY/ REGENCY/NITCO/BELL/ KAJARIA/AGL/ CERA/ SIMPOLA/HSIL/VERMORA/BONZER7/PAVIT make, in all colours and shades laid on 20mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse Sand) and fixing with adequate cement slurry/paste including pointing the joint with white cement and matching colour pigment etc at all floors complete all as per drawings and specifications (Note:Minimum price of Tile shall be of Rs.60/Sq.ft-excluding GST)	A26.1	2420	Sq. Meter		0.00	INR Zero Only
31	Providing and Fixing in position ceramic unglazed floor tiles of size 300 x 300 mm as specified below (thickness to be specified by the manufacturer) of premium quality confirming to IS-15622 of JOHNSON/ SOMANY/ REGENCY/NITCO/BELL/ KAJARIA/AGL/ CERA/ SIMPOLA/ HSIL/VERMORA/BONZER7/PAVIT make, in all colours and shades laid on 20mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse Sand) with 3mm spacer and fixing with adequate cement slurry/paste and fixing the tiles at all floors/levels etc complete all as per drawings and specifications (Note: 1. Joint filler item will be paid under relevant item. 2. Minimum price of Tile shall be of Rs.50/Sq.ft -excluding GST)	A26.2	1803	Sq. Meter		0.00	INR Zero Only
32	Providing and applying joint filling in the joints of Ceramic tile (3mm spacer) by cleaning the loose particles and filling with Tile mate Epoxy resin based ceramic tile joint filler materials of SIKA/BASF/ROFF/FOSROC/ Dr.Fixit/ Bostic India make with colouring pigments to match the colour of the tiles including cost of materials, tools labours etc complete as per drawings and specifications	A26.3	3303	Sq. Meter		0.00	INR Zero Only

33	Providing and Fixing in position ceramic glazed wall tiles of size 300 x 450 mm (thickness to be specified by the manufacturer) of premium quality conforming to IS-15622 of JOHNSON/ SOMANY/ REGENCY/ NITCO/BELL/ KAJARIA/AGL/ CERA/SIMPOLA/HSIL/ VERMORA/ BONZER7 make laid on 20mm thick Cement Mortar 1:3(1 Cement : 3 Coarse Sand) and fixing with adequate cement slurry/paste in position on the wall including pointing the joint with white cement mixed with colour pigment of matching shade complete at all floors, all as per drawings and specifications. There is no separate payment will be paid for Base mortar for fixing the tiles (Note:Minimum price of Tile shall be of Rs.60/Sq.ft -excluding GST)	A27	9412	Sq. Meter		0.00	INR Zero Only
34	Providing and laying 20mm thick (+-2mm) polished Natural granite slab of approved colour Jet Black, for platform/flooring/wall cladding and other surfaces as directed with all exposed surfaces buffed, cutting required shapes, making half/full round nosing, making holes for fixing utilities as required, set over a base of cement mortar 1:4, 20 mm thick neatly pointed with white cement and colouring pigments to match the shade of the stone as per the requirement, curing, rubbing, polishing, making pocket holes for fixing kitchen sink/wash basin /gas hose etc complete as per drawings and specifications. The rate inclusive of cutting the Granite for required shapes as per drawings and as directed (Note:Minimum price of Granite shall be of Rs.100/Sq.ft -excluding GST)	A28	1080	Sq. Meter		0.00	INR Zero Only
35	Providing and laying 20mm thick (+-2mm) polished Natural granite slab of approved colour Sadarhalli, for wall cladding and other surfaces as directed with all exposed surfaces buffed, making half/full round nosing, fixing the granite slab in position using tile fixing adhesive of M/s Myk Laticrete Or Dr.Fixit – Pidilite Industries Limited Or M/s Fosroc India Private Limited and neatly pointed with white cement and colouring pigments to match the shade of the stone as per the requirement, curing, rubbing, polishing, making holes for gas hose etc complete as per drawings and specifications. The rate inclusive of cutting the Granite for required shapes as per drawings and as directed (Note:Minimum price of Granite shall be of Rs.80/Sq.ft-excluding GST)	A29	1192	Sq. Meter		0.00	INR Zero Only
36	Providing and laying 20mm thick (+-2mm) Marble stone of "Green Marble" shade/design for platform/flooring/wall cladding/window sills/staircase riser & tread, landing etc., of required size with all exposed faces buffed, making half/full round nosing set over a base of cement mortar 1:4, 20mm thick, pointed with white cement slurry mixed with pigments to match the shade of the stone, including curing, rubbing, polishing etc. complete as per drawings and specifications. The rate inclusive of cutting the Marble for required shapes as per drawings and as directed (Note:Minimum price of Marble shall be of Rs.80/Sq.ft-excluding GST)	A30	4587	Sq. Meter		0.00	INR Zero Only
37	Supply and laying of approved quality Mangalore Roofing tiles for sloped roof slabs, laid over a base of minimum 20mm thick CM 1:4 and joints pointed neatly in cement mortar 1:3 mixed with water proofing admixture of approved make, charges for scaffolding etc complete all as per drawings and specifications	A31	285	Sq. Meter		0.00	INR Zero Only
38	Providing and making RCC sunken slab water proofing by Flexible Cementitious Elastomeric Waterproofing system using Confix India/BASF/ROFF/FOSROC/ Dr.Fixit/ Bostic India make. This item may be got executed by specialised water proofing agency duly approved by NPCIL and 5 years joint guarantee for water proofing is required to be submitted. Following are the operations: Clean the surface thoroughly to remove dust, oil laitance present in the surface if any. Grind the surface in such a way to prepare the area for waterproofing treatment. After completing the grinding work, Coving with mortar of ratio as per manufactures recommendations including required Injection grouting (Top Inject), Treating all the honeycombs. Fixing fillets in all sharp corners using Polymer Modified Mortar cement and sand in the ratio of 1:4:2 Parts by weight. After drying, applying the waterproofing coating of 2 mm thickness using Two Component High Flexible Cementitious Elastomeric Waterproofing including all the materials, tools, labours, and as per drawings and specifications & as per manufactures recommendations and as directed by the Engineer-in-charge	A32	10701	Sq. Meter		0.00	INR Zero Only
39	Providing and making RCC roof mother slab water proof Hybrid Polyurethane Membrane System using Confix India/BASF/ROFF/FOSROC/ Dr.Fixit/ Bostic India make. This item may be got executed by specialised water proofing agency duly approved by NPCIL and 5 years joint guarantee for water proofing is required to be submitted. Following are the operations: Cleaning the surface to ensure no dirt, dust and other loose particles. Grinding the surface. it will be treated. Fixing fillets in all sharp corners and coving using polymer modified mortar of ratio as per manufactures recommendations. Supply and application of fast drying high performance Moisture insensitive epoxy primer on the waterproofing area both horizontal and vertical surfaces. Providing & applying 100% Solids content, 2 component, solvent free, liquid hot applied elastomeric seamless hybrid polyurethane Membrane application by special automatic plural component high pressure spray machine with a total consumption of min 2.2 kg/m2 to form a total system DFT of min 2 mm thickness along with grouting with top inject grouting materials including all the materials, tools, labours, and drawings and specifications & as per manufactures recommendations and as directed by the Engineer-in-charge	A33	4620	Sq. Meter		0.00	INR Zero Only

40	Supply and laying one course of pressed cement tiles 20 mm thick of 250mmX250mm size as per IS:1237 of latest version, laid over the roof slab over a base of 20mm thick CM 1:4 and joints pointed neatly in cement mortar 1:3 mixed with water proofing admixture of approved make etc complete all as per drawings and specifications	A34	3535	Sq. Meter		0.00	INR Zero Only
41	Providing, fabricating and erection of Structural steel members made out of M.S. angles, flats, plates, pipes, channels, tubes, rods etc conforming to relevant IS etc., including cost of welding, welding rods, drilling holes, bolts/nuts, anchor fasteners wherever required and providing and applying two or more coats of approved quality synthetic enamel paint over a coat of zinc chromate yellow primer etc., as per drawings and specifications	A35	190	MT		0.00	INR Zero Only
42	Supplying, manufacturing and Fixing frames and architraves for doors using first quality Malaysian Vengai wood of required sizes fixed in masonry/concrete with three numbers of MS holdfasts of size 40mm width x 5mm thick & 300 mm long on each side of the frame or providing fischer screws of required length for column portions wherever required all as directed, for the various sizes of structural openings including making necessary rebate/stopper for Fixing shutters as per drawings and specifications.	A36	52	Cu. Meter		0.00	INR Zero Only
43	Supplying and Fixing of Moulded Skin panel doors of Solid core type conforming to IS: 15380, 35mm thick single leaf/double leaves manufactured from BORON based chemically treated and seasoned wood with minimum 3mm thick sheet of fiberboard HDF Skin including providing and Fixing of fixtures and fittings as per relevant IS such as 4 Nos of 125mm -SS Hinges, Aluminium "D" handles 150mm 2 Nos, 300mm long 16mm dia Aluminium Aldrop 1 No, 300mm long tower bolt 1 No, 150mm long tower bolt 1 No, Magnetic catcher/door stopper: 1 no,50mm bush 1 No etc all as per the drawings and specifications.	A37	389	Sq. Meter		0.00	INR Zero Only
44	Supplying and Fixing of Flush Doors of Solid core type confirming to IS : 2202, 32mm TO 35mm thick single leaf chemically treated and seasoned WOOD, core is framed in treated and seasoned wooden battens and strengthened by a layer of cross-bands, face veneers encompass both sides of the core, bonded with phenol formaldehyde resin and permanent type preservatives, under the cross-bonding process and internally lipped with treated wood for various structural openings including providing and Fixing of fixtures and fittings as per relevant IS such as 4 Nos of 125 mm SS hinges, Aluminium D handles 150mm 2 Nos, 300mm long 16mm dia Aluminium Aldrop 1 No, 300mm long tower bolt 1 No, 150mm long tower bolt 1 No., Magnetic Catcher/Door stopper: 1 No, 50mm bush 1 No etc all as per the drawings and specifications.	A38	649.0	Sq. Meter		0.00	INR Zero Only
45	Supplying and fixing in position single leaf Factory made flush door shutter (Doors inside flats), frame of size 100mm size facing sheet & locking framing 75mm x 50mm and shutters of 25mm thick (Coloured frame and shutter) using PVC integral foam sheet . The PVC Integral Foam shall be factory manufactured solid section of light weight sheet with fine & homogeneous closed cell structure with smooth, glossy, hard surface finish on both sides. The sheet shall have density of 500 - 600 Kg/Cum, water absorption less than 1% and tensile strength greater than 11 MPa. PVC integral form sheet shall be of M/s. Jain Irrigation Systems Ltd. (Ex-cel sheet) or M/s Kemron Wood plast Pvt Ltd Or M/s ASIS India Pvt Ltd Integral PVC Form makes of approved colour for flush door shutter including providing recessions for hinges, fixing with following fittings over the PVC solid door frame using required fasteners, cutting the sheets for required dimentions, jointing the same, finishing all edges with mixture of PVC powder & solvent for smooth finish including providing and fixing 20mm wide SS flat on door for design etc., all complete as per specification and as directed by the Engineer-In-Charge. The door shutter shall be fixed with the following hardware fittings: - a) 4 Nos. of 100 mm long stainless steel butt hinges with suitable stainless steel screws. b) Two numbers of 150mm long SS Handle with suitable CP screws. c) One numbers of 150mm long SS tower bolt & One No. of 300mm long SS Tower bolt, 300mm long SS Altrop, Magnetic Catcher with suitable CP screws. (Note:Minimum price of Flush door shutter & frame of above item shall be of Rs.7700/Sq.M-excluding GST)	A39	2062.0	Sq. Meter		0.00	INR Zero Only
46	Providing and Fixing wire mesh door shutters made of Malaysian Vengai wooden panels of 35 mm thick with stiles and top rails of 100 mm wide, 175 mm bottom and middle rails including providing stainless steel mesh of wire 0.56mm dia with average aperture width of 1.16 mm fixed with Malaysian Vengai wood beading 12 x15 mm including providing and Fixing fixtures and fittings as per relevant IS such as 4 Nos of 125mm -SS Hinges, 300mm long Aluminium tower bolt 1No, Aluminium tower bolt 150mm 1 No, Aluminium "D" Handles 150mm 2Nos and 300mm long 16mm dia Aluminium Aldrop 1 No., Magnetic catcher/door stopper 1 no etc, all as per the drawings and specifications.	A40	1084.0	Sq. Meter		0.00	INR Zero Only

47	Providing and Fixing approved quality sleek-o-matic, pulky hydraulic door closer of mild steel trends including cost of labour, tools, tackles, screws, etc., complete as per specifications	A41					
48	Supply	A41.1	529.0	No.		0.00	INR Zero Only
49	Fixing	A41.2	529.0	No.		0.00	INR Zero Only
50	Providing and Fixing factory made UPVC white colour casement/sliding window using extruded profiles. Profiles of frames and sash will be mitered cut and fusion welded at all corners, including drilling of holes for Fixing hardware and drainage of water etc., making arrangement for Fixing of hardware, EPDM gasket, 1.2 ± 0.2 mm thick galvanised steel profile to be inserted in required profile, frame will be fixed to the wall with 8 mm x 100 mm long fasteners and other fixturs etc all complete as per drawings and manufacturers specifications and following are the requisite specifications: Profile Colour: Half white Or Grey white, Window section 60mm series, Wall thickness of outer frame profile 2.2mm, Weight for the casement outer frame 1kg/mtr, dimension of the casement outer frame profile is 2.2mm, Weight of sliding outer frame profile is 1.146 kg/mtr, Dimensions of the sliding outer frame profile is 60x60mm, Touch lock in zinc alloy powder coated for sliding windows, Nylon rollers, Brush seal 6x6mm and premium quality PVC gasket seals to be used including application of Silicone sealent for the joints of wall to window joints to avoid rain water entry.	A42					
51	UPVC Sliding window glazed with 5mm thick frosted/pinned glass shutter and Aluminium mosquito mesh shutter (Note:Minimum price of UPVC of above item shall be of Rs.3400/Sq.M-excluding GST)	A42.1	4490.0	Sq. Meter		0.00	INR Zero Only
52	UPVC Louvered window with 5mm thick frosted/pinned glass and Aluminium mosquito mesh shutter (Note:Minimum price of UPVC of above item shall be of Rs.3000/Sq.M-excluding GST)	A42.2	440	Sq. Meter		0.00	INR Zero Only
53	UPVC Sliding window glazed with 6mm thick Polycarbonate sheet (Note:Minimum price of UPVC of above item shall be of Rs.4000/Sq.M-excluding GST)	A42.3	378.0	Sq. Meter		0.00	INR Zero Only
54	Supplying and fixing in position single leaf Factory made Ward robes framing and shutters using PVC integral foam sheet (Frame of size 100mmx18mm and shutters of 18mm thick - Off white coloured framing and coloured shutters other than white) . The PVC Integral Foam shall be factory manufactured solid section of light weight sheet with fine & homogeneous closed cell structure with smooth, glossy, hard surface finish on both sides. The sheet shall have density of 500 - 600 Kg/Cum, water absorption less than 1% and tensile strength greater than 11 MPa. PVC integral form sheet shall be of M/s. Jain Irrigation Systems Ltd. (Ex-cel sheet) or M/s Kemron Wood plast Pvt Ltd Or M/s ASIS India Pvt Ltd Integral PVC Form makes of approved colour for wardrobes including providing recessions for hinges, fixing with following fittings over the wardrobes using required fasteners/screws, cutting the sheets for required dimentions, jointing the same, finishing all edges with mixture of PVC powder & solvent for smooth finish, including providing and fixing 20mm wide SS flat on shutter for design etc., all complete as per specification and as directed by the Engineer-In-Charge. Per ward robe (frame and shutter) shall be fixed with the following hardware fittings: - a) 8 Nos. of 100 mm long stainless steel butt hinges with suitable stainless steel screws. b) Two numbers of 125mm long SS Handle with suitable CP screws. c) Two numbers of 100mm long SS tower bolt with suitable CP screws. d) Two numbers of Magnetic Catcher e) One Number of SS Aldrop-12mm dia. (Note:Minimum price of Ward robe framing and shutters of above item shall be of Rs.5300/Sq.M-excluding GST)	A43	2704.0	Sq. Meter		0.00	INR Zero Only

55	Supplying and fixing in position single leaf Factory made covered Kitchen Over head cabinet (Modular Kitchen) using PVC integral foam sheet. The length of the cabinet shall be as per the design and breadth shall be of 300mm and height shall be of 600mm. The cabinet will be divided into two compartments by providing PVC Sheets at mid of 300mm height from top. The Top sheet, side, bottom and mid sheets including cabinet shutters shall be of using 18mm thick PVC intergral form sheet (All surfaces-other than shutters in Offwhite colour and shutters in Colour other than white) . The cabinet will be fixed in position on the wall surface using 18mm thick PVC backing sheets with required anchorage arrangements. The PVC Integral Foam shall be factory manufactured solid section of light weight sheet with fine & homogeneous closed cell structure with smooth, glossy, hard surface finish on both sides. The sheet shall have density of 500 - 600 Kg/Cum, water absorption less than 1% and tensile strength greater than 11 MPa. PVC integral form sheet shall be of M/s. Jain Irrigation Systems Ltd. (Ex-cel sheet) or M/s Kemron Wood plast Pvt Ltd Or M/s ASIS India Pvt Ltd Integral PVC Form makes of approved colour for cabinet including providing recessions for hinges, fixing with following fittings over the kitchen cabinet using required fasteners/screws, cutting the sheets for required dimentions, jointing the same, finishing all edges with mixture of PVC powder & solvent for smooth finish or other means, including providing and fixing 20mm wide SS flat on door for design etc., all complete as per specification and as directed by the Engineer-In-Charge. The each double leaf cabinet shutter shall be fixed with the following hardware fittings: - a) 4 Nos. of 75 mm long stainless steel butt hinges with suitable stainless steel screws. b) Two numbers of 125mm long SS Handle with suitable CP screws. c) Two numbers of 100mm long SS tower bolt with suitable CP screws. d) Two numbers of Magnetic Catcher e) One Number of 150mm SS Aldrop-12mm dia. (Note:Minimum price of Kitchen over head cabinet framing and shutters of above item shall be of Rs.10600/Sq.M-excluding GST)	A44	246.0	Sq. Meter		0.00	INR Zero Only
56	Supplying and fixing in position single leaf Factory made flush door shutter (for Toilets), frame of size 75mm x 36mm and shutters of 18mm thick (Off white colour frame and shutter) using PVC integral foam sheet (for Toilet doors) . The PVC Integral Foam shall be factory manufactured solid section of light weight sheet with fine & homogeneous closed cell structure with smooth, glossy, hard surface finish on both sides. The sheet shall have density of 500 - 600 Kg/Cum, water absorption less than 1% and tensile strength greater than 11 MPa. PVC integral form sheet shall be of M/s. Jain Irrigation Systems Ltd. (Ex-cel sheet) Or or M/s Kemron Wood plast Pvt Ltd Or M/s ASIS India Pvt Ltd Integral PVC Form makes of approved colour for flush door shutter including providing recessions for hinges, fixing with following fittings over the PVC solid door frame using required fasteners, cutting the sheets for required dimentions, jointing the same, finishing all edges with mixture of PVC powder & solvent for smooth finish, including providing and fixing 20mm wide SS flat on door for design etc., all complete as per specification and as directed by the Engineer-In-Charge. The door shutter shall be fixed with the following hardware fittings: - a) 3 Nos. of 100 mm long stainless steel butt hinges with suitable stainless steel screws. b) Two numbers of 150mm long SS Handle with suitable CP screws. c) Two numbers of 150mm long SS tower bolt with suitable CP screws. d) One 200mm long SS Aldrop (Note:Minimum price of Flush door (toilet doors) framing and shutters of above item shall be of Rs.5300/Sq.M-excluding GST)	A45	917.0	Sq. Meter		0.00	INR Zero Only
57	Internal painting works	A46.1					
58	Supply of Acrylic Emulsion paint primer suitable for Asian paints (Premium Emulsion)/Lewis Berger (Rangoli) /ICI Dulux (Super smooth) make as per manufacturers recommendations.	A46.2	7707.0	Litres		0.00	INR Zero Only
59	Supply of Anti-efflorescence/water proof putty in Asian paints /Lewis Berger /ICI Dulux make as per manufacturers recommendations	A46.3	101880.0	kg		0.00	INR Zero Only
60	Supply of Acrylic Emulsion paint of approved colour and shade made of Asian paints (Premium Emulsion)/Lewis Berger (Rangoli) /ICI Dulux (Super smooth) make as per manufacturers recommendations. (Colour and shade of paint will be decided/approved by NPCIL)	A46.4	17005	Litres		0.00	INR Zero Only
61	Application of Acrylic Emulsion paint primer one coat including application of wall putty in minimum 1.5mm thickness by sand papering, cleaning the surface from dirt etc. Final application of finishing wall painting with two or more coats with Acrylic Emulsion paint with required manpower, tools, brush, etc to complete the job. to get good finish at all elevations etc all as per as per drawings and specifications (Primer, putty and Acrylic Emulsion paint will be paid under relevant item). This item is for application of paint in Internal wall surfaces except Ceiling painting.	A46.5	98499.0	Sq. Meter		0.00	INR Zero Only
62	Application of Acrylic Emulsion paint primer one coat including sand papering, cleaning the surface from dirt, filling pin holes with required coats of putty etc. Final application of finishing ceiling painting with two or more coats with Acrylic Emulsion paint with required manpower, tools, brush, etc to complete the job. to get good finish at all elevations etc all as per as per drawings and specifications (Primer, putty and Acrylic Emulsion paint will be paid under relevant item). This item is for application of paint in Ceiling wall surfaces	A46.6	32705.0	Sq. Meter		0.00	INR Zero Only
63	External painting	A47					

64	Supply of "Anti-efflorescence/Alkali block" primer suitable for exterior Emulsion paint of Asian paints (Apex Ultima Protect)/Lewis Berger(Weather coat all guard)/ICI Dulux (Weather shield Max) make as per manufacturers recommendations	A47.1	4385.0	Litres		0.00	INR Zero Only
65	Supply of Exterior Emulsion paint of Asian paints (Apex Ultima Protect)/Lewis Berger(Weather coat all guard)/ICI Dulux (Weather shield Max) make as per manufacturers recommendations (Colour and shade of paint will be decided/approved by NPCIL)	A47.2	11465.00	Litres		0.00	INR Zero Only
66	Application of Exterior Emulsion Paint primer one coat including sand papering, cleaning the surface from dirt, etc. Final application of finishing painting with two or more coats with Exterior Emulsion paint with required manpower, tools, brush, scaffolding etc to complete the job to get good finish at all elevations etc all as per as per drawings and specifications (Primer and Exterior Emulsion paint will be paid under relevant item)	A47.3	59250.00	Sq. Meter		0.00	INR Zero Only
67	Enamel Painting	A48					
68	Supply of First Quality synthetic enamel paint primer for wooden surface application of Asian paints/ Lewis Berger/ ICI Dulux make as per technical specifications	A48.1	723.0	Litres		0.00	INR Zero Only
69	Supply of First Quality synthetic enamel paint approved colour of Asian paints/ Lewis Berger/ ICI Dulux make as per technical specifications. (Colour and shade of paint will be decided/approved by NPCIL)	A48.2	1185.0	Litres		0.00	INR Zero Only
70	Application of two coats of First Quality synthetic enamel paint over a coat of primer on new wood work, suitably prepared for receiving the paint by surface scraping, rubbing applying filler etc., including cost of filler primer, paint etc all complete as per drawings and specifications (Primer & First Quality synthetic enamel paint will be paid under relevant item)	A48.3	5925.0	Sq. Meter		0.00	INR Zero Only
71	Providing and application of Bitumen Painting (Black anti-corrosive bitumastic paint) of grade 80/100 using approved quality in two coats over RCC footings, stub columns and beams etc as per drawings and specifications	A49	12748.0	Sq. Meter		0.00	INR Zero Only
72	Providing and application of Water proofing system using approved quality 5mm thick Bitumen Tar felt sheets to avoid ground water ingress to foundation surfaces. The bitumen tar felt sheets has to be fixed on foundation using application primer or tar/bitumen gum to the foundation surfaces. The surfaces to be cleaned and kept in dry dry condition before application. Necessary dewatering arrangements to be done if water persists. The cost inclusive of materials, labour, tools and dewatering charges etc complete as per drawings and specifications	A50	3080	Sq. Meter		0.00	INR Zero Only
73	Providing and Fixing Two way dead locks (7 levers) of Godrej/Doorset/Yale/Ozone/Milano/Atom/Spider/IPSA makes with keys as per specification	A51					
74	Supply	A51.1	203	No.		0.00	INR Zero Only
75	Fixing	A51.2	203	No.		0.00	INR Zero Only
76	Providing and Fixing "Judas eye" in front door including making hole filling and making good the surface etc. complete as per specifications	A52					
77	Supply	A52.1	203	No.		0.00	INR Zero Only
78	Fixing	A52.2	203	No.		0.00	INR Zero Only
79	Providing and Fixing in position over doors and windows approved make MS powder coated curtain rods of 25mm dia of approved colour including providing necessary decorative end fittings and wherever necessary intermediated support to be provided if width is more including providing required nos. of curtain hanging PVC hooks, necessary screws rawl plugs etc complete as per drawings and specifications	A53					
80	Supply	A53.1	5880	Meter		0.00	INR Zero Only
81	Fixing	A53.2	5880	Meter		0.00	INR Zero Only
82	Supplying and fixing 20mm dia anodised aluminum hangers for wardrobe including supplying and fixing of rawl plugs and screws with die-cast anodised aluminum brackets, end fittings etc complete as per drawings and specifications.	A54					

83	Supply	A54.1	693	Meter		0.00	INR Zero Only
84	Fixing	A54.2	693	Meter		0.00	INR Zero Only
85	Providing and Fixing in position 24 guage G.I. Chicken mesh of 150 mm wide in between the junction of column/beams with masonry by placing the mesh with nailing/cement pasting etc before at all elevations etc complete as per drawings and specifications	A55	90500	Meter		0.00	INR Zero Only
86	Providing and Fixing cloth drying lines in balcony consisting of 1000 x 50 x 40 mm thick hardwood battens fixed with 5 Nos. of MS Chromium plated hooks on both battens on either side of the wall with 5 rows of 6mm dia nylon rope for the full length of drying area and tied with MS hook etc., including Fixing the batten securely with necessary screws, rawl pugs and painting the wooden battens with two coats of synthetic enamel paint of approved make and shade over a coat of primer.	A56	203	No.		0.00	INR Zero Only
87	Providing fabricating and Fixing MS letter boxes size 375 mm X 230 mm X 75mm each made out of 12 gauge MS sheet including providing and applying two coats of synthetic enamel paint over a coat of primer as per drawing and writing the respective quarter number on the box as per drawings and specifications : 5 boxes combined	A57	203	No.		0.00	INR Zero Only
88	Water tank Inner water proofing works using Polyurea system productive coating of 1500 micron. This item may be got executed by specialised water proofing agency duly approved by NPCIL and 5 years joint guarantee for water proofing is required to be submitted Following are the working procedure: The inner surface of water tank found any cracks and pin holes are to be filled with epoxy putty. The prepared surface shall be applied with Polyurethane primer and top coat shall be applied with Polyurea of Polyroof PW Confix India make Or Fosroc Or Piditite Or Huntsman makes, for internal coating of portable water by spray system, the material shall be 100% solid of two component and rapid curing pure Polyurea system as a water proofing and productive coating of 1500 micron to be applied as per manufactures specification. The top coat shall be seamless coating which shall ensure very long life cycles and high durability. The product shall be fast setting and based on elastomeric water proof coating for clean water. The top coat of Polyurea shall confirm the following technical parameters. Solid-100 %, Tensile strength - 26.2 mpa,Tear Resistance-73.6 N/mm,Shore A hardness-90, Shore D hardness – 43,Elongation %-420 %, Solid Content-100%,Abrasion Resistance-45 mg/1000 cycles,Crack Bridging Capacity – Pass The rate shall be inclusive of deployment of man power such as specialized applicator / operator including necessary tools, tackles, machineries, scaffolding, consumables etc., to complete the entire work as per the requirement of Engineer-in-charge.	A58	835	Sq. Meter		0.00	INR Zero Only
89	Providing and Fixing Terracotta jally of 75mm thick of approved size and pattern including chasing the masonry/concrete if required and Fixing with CM 1:3 true to line and plumb & making good the surfaces, curing etc. at all elevations, complete all as per drawings and specifications	A59	2556	Sq. Meter		0.00	INR Zero Only
90	Providing, casting, finishing, curing, hoisting and placing in position 100mm thick precast slabs (for inspection chambers) in cement concrete 1:2:4 using 20mm down size stone aggregate excluding cost of reinforcement but including formwork all complete as per drawings and specifications (The rate shall be exclusive of reinforcement)	A60	20	Sq. Meter		0.00	INR Zero Only
91	Supply and fixing of Retro reflective sign board madeout of wide angle cube corner micro prismatic retro relective sheeting conforming to IRC 67-2010 & Type 11 standards of ASTM D 4956-09 fixed over 2mm thick aluminium sheet along with Aluminium pole of required size as directed. The item includes cost of all materials, loading, unloading, lead, lift transportation, fixing arrangements etc complete. 10 years warrenty as per clause 6.90 of IRC 67-2012 for Type XI Retro reflective sheeting from the manufacturer and a certified copy of test reports from an independent test laboratory confirming to clause 6.70 of IRC 67-2012 including 3 years outdoor weather exposure report for the retro reflective sheeting offered shall be submitted by the contractor. Item includes providing and Fixing Powder coated (50 micron black or bronze) Aluminium Poles as per requirement for sign boards with extruded built up standard tubular and other sections of approved make conforming to IS:733 and IS:1285 powder coated to the required shade, fixed with rawl plugs and screws etc complete as per drawings and Specifications	A61	40	Sq. Meter		0.00	INR Zero Only
92	Preparation of Structural design and drawing for B-type quarters (Stilt+10 storey pattern) by adopting the avaiable Architectural drawings including obtaining third party vetting from reputed institutions as per the directions of NPCIL.	A62	1	Lumpsum		0.00	INR Zero Only
93	Providing and Fixing in position approved vitreous chinaware orissa pattern Water Closet 580 mm x 440 mm "Hindware/Cera/Nycer/Parryware" make with "S" or "P" trap with all jointing materials including excavation, making hole in masonry, reconstructing the same, encasing the pan and trap with brick jelly concrete 1:2:4 and finishing the same etc., complete as per drawings and specifications	B1					
94	Supply	B1.1	203.00	No.		0.00	INR Zero Only
95	Fixing	B1.2	203.00	No.		0.00	INR Zero Only
96	Providing and Fixing in position approved European type water closet of "Hindware/Cera/Nycer/Parryware" make comprising of a) Wash down EWC in white glazed vitreous chinaware with integral "P" of "S" trap with or without vent and jointing the trap with soil pipe in CM 1:1 b) Hindware/Cera/ Nycer/Parryware make PVC 10 liters capacity low level flushing cistern with all syphonic fittings. c) White solid plastic seat cover with CP pillar hinges and rubber buffers etc complete as per drawings and specifications	B2					

97	Supply	B2.1	249.00	No.		0.00	INR Zero Only
98	Fixing	B2.2	249.00	No.		0.00	INR Zero Only
99	Providing and fixing PVC flushing cistern of 10 litres capacity "Hindware/Cera/ Nycer/Parryware" make with all syphonic fittings, including assembling the cistern components and flush pipe, testing etc., Complete all as per specifications etc complete as per drawings and specifications.	B3					
100	Supply	B3.1	203.00	No.		0.00	INR Zero Only
101	Fixing	B3.2	203.00	No.		0.00	INR Zero Only
102	Providing and Fixing in position porcelain oval shape white colour counter sunk wash basin of size 560x470x190mm (minimum) of Hindware/Cera/ Nycer/Parryware make on Granite counter as per drawings and specifications (Item of marble/granite will be paid under relevant item).	B4					
103	Supply	B4.1	203.00	No.		0.00	INR Zero Only
104	Fixing	B4.2	203.00	No.		0.00	INR Zero Only
105	Providing and Fixing in position best quality vitreous chinaware hand wash basin of 550x400mm size white colour of Hindware/Cera/Nycer/Parryware/Prayag/Johnson/Somany make and Fixing with Rug bolt of approved size and make as per drawings and specifications	B5					
106	Supply	B5.1	175.00	No.		0.00	INR Zero Only
107	Fixing	B5.2	175.00	No.		0.00	INR Zero Only
108	Providing and Fixing vitreous CP Brass Soap dish of Cera/Adson/Parryware/Ess Ess make as per drawings and specifications	B6					
109	Supply	B6.1	378.00	No.		0.00	INR Zero Only
110	Fixing	B6.2	378.00	No.		0.00	INR Zero Only
111	Providing and fixing PTMT symet waste coupling -32mm dia half threaded for wash basin of Prayag/Polytuf/Wavin Vectus/King pipes/Polo India/Plasto make with rubber plug ball chain with necessary check nut as per drawings and specifications.	B7					
112	Supply	B7.1	378.00	No.		0.00	INR Zero Only
113	Fixing	B7.2	378.00	No.		0.00	INR Zero Only
114	Providing and fixing heavy quality PTMT waste coupling 38mm dia for kitchen sink of Prayag/Polytuf/Wavin Vectus/King pipes/Polo India/Plasto make with or without overflow with rubber plug CP brass ball chain with necessary checknut etc complete as per drawings and specifications.	B8					
115	Supply	B8.1	203.00	No.		0.00	INR Zero Only
116	Fixing	B8.2	203.00	No.		0.00	INR Zero Only

117	Providing and Fixing heavy quality PTMT bottle trap as per IS-9763 of Prayag/Polytuf/Wavin Vectus/King pipes/Polo India/Plasto make of self cleaning design for wash basin. - 32 mm nominal bore	B9					
118	Supply	B9.1	378.00	No.		0.00	INR Zero Only
119	Fixing	B9.2	378.00	No.		0.00	INR Zero Only
120	Providing and Fixing 15 mm size heavy quality CP brass pillar cock easy clean type as per relevant IS for wash basin with capstan head Adson/Cera/Parryware/Ess Ess make as per drawings and specifications	B10					
121	Supply	B10.1	378.00	No.		0.00	INR Zero Only
122	Fixing	B10.2	378.00	No.		0.00	INR Zero Only
123	Providing and Fixing heavy quality 15mm dia CP brass angle cock as per relevant IS, Adson/Cera/Parryware/Ess Ess make as per drawings and specifications	B11					
124	Supply	B11.1	2159.00	No.		0.00	INR Zero Only
125	Fixing	B11.2	2159.00	No.		0.00	INR Zero Only
126	Providing and Fixing heavy quality 15 mm dia, CP brass screw down long bodied bib tap with CP brass flanges as per relevant IS, Adson/Cera/Parryware/Ess Ess make as per drawings and specifications	B12					
127	Supply	B12.1	1442.00	No.		0.00	INR Zero Only
128	Fixing	B12.2	1442.00	No.		0.00	INR Zero Only
129	Providing and Fixing 15mm dia CP brass screw down stop cock concealed type with female ends as per relevant IS, Adson/Cera/Parryware/Ess Ess make as per drawings and specifications	B13					
130	Supply	B13.1	772.00	No.		0.00	INR Zero Only
131	Fixing	B13.2	772.00	No.		0.00	INR Zero Only
132	Providing and Fixing heavy quality CP brass shower rose 15 mm x 50 mm easy clean type with ball and socket arrangement as per relevant IS, Adson/Cera/Parryware/Ess Ess make with CP shower arm of 300 mm length with CP flange as per drawings and specifications	B14					
133	Supply	B14.1	372.00	No.		0.00	INR Zero Only
134	Fixing	B14.2	372.00	No.		0.00	INR Zero Only
135	Providing and Fixing C.P. brass three pronged robe hooks of Adson/Cera/Parryware/Ess Ess make with C.P. brass flange as per drawings and specifications	B15					
136	Supply	B15.1	372.00	No.		0.00	INR Zero Only

137	Fixing	B15.2	372.00	No.		0.00	INR Zero Only
138	Toilet paper Holder & Kitchen Sink	B16					
139	Providing and Fixing CP Brass Toilet paper Holder as per relevant IS, Adson/Cera/Parryware/Ess Ess make as per drawings and specifications	B16.1					
140	Supply	B16.1.1	369.00	No.		0.00	INR Zero Only
141	Providing and Fixing Stainless Steel Kitchen sink with drain board 1 mm thick of size 1020mm x 535 mm, bowl size 480 x 405 x 200mm, "Prince/Supreme/Prayag" make, fixed with stainless steel plug 38mm etc complete as per drawings and specifications	B16.2					
142	Supply	B16.2.1	203.00	No.		0.00	INR Zero Only
143	Fixing	B16.2.2	203.00	No.		0.00	INR Zero Only
144	Providing and Fixing in position mirror of size 600 x 450mm, made of Indian glass 6mm thick manufactured by Modi guard/Saint Gobain/Hindustan/Borosil/Asahi India/La Opala RG Ltd make factory silvered with PVC backing 4mm thick etc., complete as per drawings and specifications	B17					
145	Supply	B17.1	378.00	No.		0.00	INR Zero Only
146	Fixing	B17.2	378.00	No.		0.00	INR Zero Only
147	Providing and Fixing of 600 mm x 20 mm CP brass towel rod of Adson/Cera/Parryware/Ess Ess make, with a pair of CP brass brackets and wall flanges fixed to wall with CP brass screws screwed on to wooden plugs embedded in wall etc., complete as per drawings and specifications	B18					
148	Supply	B18.1	372.00	No.		0.00	INR Zero Only
149	Fixing	B18.2	372.00	No.		0.00	INR Zero Only
150	Providing and Fixing 15 mm dia PVC inlet connections to withstand temperature up to 600 C of "Kohinoor/Prayag/ Adson/water tec" make with heavy PVC check nut at both ends of length not exceeding 450 mm as per drawings and specifications	B19					
151	Supply	B19.1	1500.00	No.		0.00	INR Zero Only
152	Fixing	B19.2	1500.00	No.		0.00	INR Zero Only
153	Providing and Fixing 38m PVC Telescopic pipe for kitchen sink	B20	203.00	No.		0.00	INR Zero Only
154	Providing and Fixing polyethylene - Aluminium polyethylene (PE-AL-PE) composite pressure pipe UV stabilized with carbon black confirming to IS:15450-2004 for water Supply including providing and Fixing composite box clamps/fixing pipes on GI brackets of approved design at 1000mm spacing for external works Or laying under floor wherever required and cutting the walls for required depth for concealed installation including cutting charges and making good the walls/concrete for internals and providing and Fixing all the required specials/fittings etc wherever required at all elevations including cost of scaffolding, core cutting etc. complete as per drawings and specifications (Earthwork excavation will be paid under relevant item)	B21					
155	12-16mm dia	B21.1					

156	Supply (Pipe with required specials as required)	B21.1.1	260.00	Meter		0.00	INR Zero Only
157	Fixing	B51.1.2	260.00	Meter		0.00	INR Zero Only
158	16-20mm dia	B21.2					
159	Supply (Pipe with required specials as required)	B21.2.1	5015.00	Meter		0.00	INR Zero Only
160	Fixing	B21.2.2	5015.00	Meter		0.00	INR Zero Only
161	20-25mm dia	B21.3					
162	Supply(Pipe with required specials as required)	B21.3.1	2680.00	Meter		0.00	INR Zero Only
163	Fixing	B21.3.2	2680.00	Meter		0.00	INR Zero Only
164	25-32mm dia	B21.4					
165	Supply (Pipe with required specials as required)	B21.4.1	3170.00	Meter		0.00	INR Zero Only
166	Fixing	B21.4.2	3170.00	Meter		0.00	INR Zero Only
167	32-40mm dia	B21.5					
168	Supply (Pipe with required specials as required)	B21.5.1	1635.00	Meter		0.00	INR Zero Only
169	Fixing	B21.5.2	1635.00	Meter		0.00	INR Zero Only
170	40-50mm dia	B21.6					
171	Supply (Pipe with required specials as required)	B21.6.1	6550.00	Meter		0.00	INR Zero Only
172	Fixing	B21.6.2	6550.00	Meter		0.00	INR Zero Only
173	90-110mm dia	B21.7					
174	Supply (Pipe with required specials as required)	B21.7.1	2500.00	Meter		0.00	INR Zero Only
175	Fixing	B21.7.2	2500.00	Meter		0.00	INR Zero Only

176	Providing and Fixing isolating composite Brass Ball valve "Akar/Zolato/Leader" make with compression type integral seal end connection suitable for PE-AL-PE composite piping system as per IS-15450, suitable for hot and cold water Supply as per drawings and specifications	B22					
177	Isolating composite Brass Ball valve - 50x50mm (Suitable for 4050 composite pipe)	B22.1					
178	Supply	B22.1.1	140.00	No.		0.00	INR Zero Only
179	Fixing	B22.1.2	140.00	No.		0.00	INR Zero Only
180	Isolating composite Brass Ball valve - 40x40mm (Suitable for 3240 composite pipe)	B22.2					
181	Supply	B22.2.1	23.00	No.		0.00	INR Zero Only
182	Fixing	B22.2.2	23.00	No.		0.00	INR Zero Only
183	Isolating composite Brass Ball valve - 32x32mm (Suitable for 2532 composite pipe)	B22.3					
184	Supply	B22.3.1	920.00	No.		0.00	INR Zero Only
185	Fixing	B22.3.2	920	No.		0.00	INR Zero Only
186	Providing and Fixing Gun metal Non-return valve of class I confirming to relevent IS Standards of "LEADER/ZOLATO/PILOT" make as per drawings and specifications	B23					
187	50 mm dia (Suitable for 4050 composite pipe)	B23.1					
188	supply	B23.1.1	102	No.		0.00	INR Zero Only
189	fixing	B23.1.2	102	No.		0.00	INR Zero Only
190	32mm dia (Suitable for 2532 composite pipe)	B23.2					
191	supply	B23.2.1	38	No.		0.00	INR Zero Only
192	fixing	B23.2.2	38	No.		0.00	INR Zero Only
193	Providing and Fixing 32mm Gun metal Air release valve of class I confirming to relevent IS Standards of "LEADER/ZOLATO/PILOT" make as per drawings and specifications	B24					
194	supply	B24.1	74	No.		0.00	INR Zero Only
195	fixing	B24.2	74	No.		0.00	INR Zero Only

196	Providing and Fixing in position at all elevations PVC pipes of "Prince/Jain/ Kitec/Finolex/Supreme/Astral/Ashirvad" make of Type-B conforming to IS 13592 of latest version and specials such as bends, junctions with or without doors, cowls, etc., for soil, waste, vent or anti-syphonage pipes & fixing pipes on GI brackets of approved design at minimum 1 m spacing with cost for core cutting, laying under floors etc complete as per drawings and specifications	B25					
197	50mm	B25.1					
198	Supply	B25.1.1	680	Meter		0.00	INR Zero Only
199	Fixing	B251.1	680	Meter		0.00	INR Zero Only
200	63mm	B25.2					
201	Supply	B25.2.1	1820	Meter		0.00	INR Zero Only
202	Fixing	B25.2.2	1820	Meter		0.00	INR Zero Only
203	75 mm	B25.3					
204	Supply	B25.3.1	5400	Meter		0.00	INR Zero Only
205	Fixing	B25.3.2	5400	Meter		0.00	INR Zero Only
206	110 mm	B25.4					
207	Supply	B25.4.1	1010	Meter		0.00	INR Zero Only
208	Fixing	B25.4.2	1010	Meter		0.00	INR Zero Only
209	160 mm	B25.5					
210	Supply	B25.5.1	1370	Meter		0.00	INR Zero Only
211	Fixing	B25.5.2	1370	Meter		0.00	INR Zero Only
212	Providing and laying under floor PVC pipes of Prince/Jain/ Kitec/Finolex/Supreme/ Astral/Ashirvad make as per IS-15328 of latest version and required specials for soil, waste pipes etc complete as per drawings and specifications (Earth work excavation will be paid under relevant item).	B26					
213	110 mm dia	B26.1					
214	Supply	B26.1.1	375	Meter		0.00	INR Zero Only

215	Fixing	B26.1.2	375	Meter		0.00	INR Zero Only
216	160 mm dia	B26.2					
217	Supply	B26.2.1	2340	Meter		0.00	INR Zero Only
218	Fixing	B26.2.2	2340	Meter		0.00	INR Zero Only
219	Providing, laying, Fixing in position at required elevations on walls, under floors/ground etc. as indicated on drawings, approved tested High density poly-ethylene of PE 80 grade pipes of JAIN/RELIANCE/KOTHARI make as per I.S. 4984-1978 including necessary welding and required specials like Elbows, moulded bends, Tees and reducers, HDPE tail piece & GI flange. cleaning, pressure testing with clean water as per standard specification and rectifying the leaks if found etc. as per drawings and specifications (excavation will be measured under relevant item)	B27					
220	160 mm (10kg/Cm2)	B27.1					
221	Supply	B27.1.1	700	Meter		0.00	INR Zero Only
222	Fixing	B27.1.2	700	Meter		0.00	INR Zero Only
223	Providing, Fixing and testing PVC rain water pipes as beolw as per IS-13592 of Type A of Prince/Jain/ Kitec/Finolex/Supreme /Astral/ Ashirvad make with necessary fittings and fixtures including PVC grating, screws/nails, fixing pipes on GI brackets of approved design at minimum 1 m spacing with cost for core cutting etc complete all as per drawings and specifications	B28					
224	110 mm dia	B28.1					
225	Supply	B28.1.1	63	Meter		0.00	INR Zero Only
226	Fixing	B28.1.2	63	Meter		0.00	INR Zero Only
227	160 mm dia	B28.2					
228	Supply	B28.2.1	2500	Meter		0.00	INR Zero Only
229	Fixing	B28.2.2	2500	Meter		0.00	INR Zero Only
230	Providing and Fixing 160mm dia PVC Filtrain (Rain water harvesting Filter) of M/s Jain Or M/s Supreme Or M/s Plasto makes with end cap and drain valve etc to be fixed in Rain water downtake line from the terraces of Mutistoried buildings as per manufacturers specifications. The cost includes jointing the filtrain to existing PVC rain water pipes of multistoried buiding with required fixing arrangements and all other accessories to complete the work.	B29	28	No.		0.00	INR Zero Only
231	Supplying and Fixing of best quality NECO/SARDAR/ PILOT/GEETA make of 160mm C I gate valve flange ends with brass Working parts as per IS 14846 including gasket, TVS- ISI marked nut bolts, washers, tools, tackles, labour etc. complete as per drawings and specifications	B30					
232	160mm dia	B30.1	12	No.		0.00	INR Zero Only
233	Providing and Fixing 32-40 mm dia PE-AL-PE pipe 400 mm long as per IS-15450, with 2 Male threaded coupler Fixing with Araldite coating for bonding with concrete etc for Water tank inlet, outlet and scour lines etc. complete as directed	B31	46	No.		0.00	INR Zero Only

234	Providing and Fixing horizontal type high pressure ball cock of 40 mm dia "Prayag" make item code 155 / Or similar model in Polytuf/Wavin Vectus/King pipes/Polo India/Plasto make with required accessories like ball, rod, rubber washer and double check nut, all conforming to relevant IS etc complete as per drawings and specifications	B32	28	No.		0.00	INR Zero Only
235	Providing and Fixing single/multi PVC Nahani trap of self cleaning design with 75 mm dia outlet, Prince/Jain/ Kitec/Finolex/Supreme/Astral/ Ashirvad make as per relevant IS, Stainless steel Grating and including necessary cement concrete 1:2:4 for embedding and making good the floor, connecting the trap to the waste pipe, forming circular hole up to floor level and rendering smooth etc. Complete as per drawings and specifications	B33	1427	No.		0.00	INR Zero Only
236	Providing and Fixing best quality PVC 150 x 150 mm size square mouth Gully trap and 100 mm P type outlet, "Supreme/Prince/Star/Finolex" make as per relevant IS and constructing brick masonry chamber 300 mm x 300 mm internal size in 110 mm thick fly ash brick masonry in CM 1:5 using fly ash bricks as per IS:12894, class designation : 5 from the approved manufacturer by NPCIL, with necessary excavation with bed of 100 mm thick cement concrete 1:4:8 (1 Cement : 4 coarse sand :8 graded stone aggregate of nominal size) for foundation and around the trap and plastering with CM 1:3 (1 cement : 3 fine sand) 15 mm thick on internal and external surfaces on top and up to 150 mm below ground level, finished smooth, curing providing and Fixing double seal CI cover and frame of weight not less than 7.0 kgs (as per relevant IS), at top etc complete as per drawings and specifications. (Earth work excavation will be paid under relevant item.)	B34	98	No.		0.00	INR Zero Only
237	Construction of inspection chambers of internal clear dimension 450 x450 up to a maximum depth of 600mm in 230 mm thick fly ash brick masonry in CM 1:6 using fly ash bricks as per IS:12894, class designation : 5 from the approved manufacturer by NPCIL, over a bed of 150mm thick 1:4:8 cement concrete foundation, plastering with CM 1:4, 20mm thick on inside, outside and all exposed surface finished with floating coat of neat cement, PCC 1: 2:4 for benching and channel finished with neat cement, Top covered with 100mm thick RCC 1:2:4 grade slab with required steel reinforcements, including providing & Fixing double seal C.I. manhole cover & frame of 450x 450mm weight not less than 38 kg (as per relevant IS), embedding the C.I. frame in RCC cover slab etc complete as per drawings and specifications. (Earth work excavation and steel reinforcement will be paid under relevant item)	B35	62	No.		0.00	INR Zero Only
238	Construction of inspection chambers of internal clear dimension 900 x600 mm up to a maximum depth of 900 mm in 230 mm thick fly ash brick masonry in CM 1:4, using fly ash bricks as per IS:12894, class designation : 5 from the approved manufacturer by NPCIL, over a bed of 150mm thick 1:4:8 cement concrete foundation, plastering with CM 1:4, 20mm thick on inside, outside and all exposed surface finished with floating coat of neat cement, PCC 1:2:4 for benching and channel finished with neat cement, providing and Fixing C.I. steps weighing not less than 3.5 Kg/each at 300 mm centre to centre etc., Top covered with 100mm thick RCC 1:2:4 grade slab with required steel reinforcements,, including providing & Fixing double seal C.I. manhole covers & frames of size 600 x 450mm of weight not less than 50 kg (as per relevant IS), embedding the C.I. frame in RCC cover slab etc complete as per drawings and specifications (Earth work excavation and steel reinforcement will be paid under relevant item)	B36	67	No.		0.00	INR Zero Only
239	Extra depth for above item, for depth beyond 900 mm, 300mm or part there of including providing and Fixing CI steps weighing not less than 4.5 kg/each etc, as per specifications	B37	27	No.		0.00	INR Zero Only
240	Construction of Inspection chambers of internal clear dimension 1200 x 1000 x 1000 mm deep in 230 mm thick fly ash brick masonry in CM1:6, using fly ash bricks as per IS:12894, class designation : 5 from the approved manufacturer by NPCIL, over a bed of 150mm thick 1:4:8 cement concrete foundation, plastering with CM 1:4, 20mm thick on inside and all exposed surfaces, providing and Fixing C.I. steps weighing not less than 3.5 Kg/each at 300 mm centre to centre etc., Top covered with 100mm thick RCC 1:2:4 grade slab with required steel reinforcements, including providing & Fixing CI manhole cover & frame of 600 x 600mm (double seal) of weight not less than 110 kgs (as per relevant IS), embedding the C.I. frame in RCC cover slab etc complete as per drawings and specifications (Earth work excavation and steel reinforcement will be paid under relevant item)	B38	39	No.		0.00	INR Zero Only
241	Extra depth for above item, for depth beyond 1000 mm, 300mm or part there of including providing and Fixing CI steps weighing not less than 4.5 kg/each etc, as per specifications	B39	21	No.		0.00	INR Zero Only
242	Constructing Circular manhole with fly ash brick masonry in cement mortar CM 1:6 (1cement: 4 sand) having internal diameter of 600mm at top for varying depth over the foundation concrete of 150mm thick with 1:2:8 mix (1cement: 4 sand: 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1cement: 3sand) finished with floating coat of neat cement and the plastering of external faces of brick work / concrete with cement mortar 1:4 for 20mm thick and making channels in cement concrete 1:2:4 benching to a slope of 1:10 (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design, drawing and R.C.C. top slap with 1:2:4 mix (1cement: 2coarse sand: 4 graded stone aggregate 20 mm nominal size) with required steel reinforcements as detailed in the drawing. Including providing Ductile Iron Manhole cover and frame of size 600 mm dia & weight not less than 60 Kgs (As per EN-124 Std Grade B-125) and PVC Coated CI Rungs. The rate is including cost of all labour, material etc as per drawings and specifications.	B40					
243	Manhole with bottom diameter of 900 mm and depth above 1.000 Meter up to 2.0 Meter (Brick wall-230mm thickness)	B40.1	4	No.		0.00	INR Zero Only
244	Manhole with bottom diameter of 1200 mm and depth above 2.0 Meter up to 3.0 Meter. (Brick wall-345mm thick upto 1.50m high and balance with 230mm thickness)	B40.2	3	No.		0.00	INR Zero Only

245	Design, procurement, transportation, erection, commissioning, providing lift licence and maintenance for one year after the acceptance by NPCIL for 8 passengers suitable for 11 Floors (G +10) as per specifications.	C1	5	No.		0.00	INR Zero Only
246	Design, procurement, transportation, erection, commissioning, providing lift licence and maintenance for one year after the acceptance by NPCIL for 13 passengers suitable for 11 Floors (G +10) as per the specifications	C2	5	No.		0.00	INR Zero Only
247	Panel Boards	D1					
248	PDB for B-type Supply and erection of 12 way single phase distribution board complete with interconnection Copper busbar, Neutral bar, Earth bar, top and bottom removable gland plates with knockout, and acrylic door with the following RCBO/MCBs with .63A DP RCBO (30 mA) - 1 no, 20A/16A / 6A Single Pole MCB - 8 Nos	D1.1					
249	Supply	D1.1.1	6510	Nos.		0.00	INR Zero Only
250	Fixing	D1.1.2	2613	Nos.		0.00	INR Zero Only
251	PDB for DSPL, E type Supply and erection of 4 way TPN distribution board complete with interconnection Copper busbar, Neutral bar, Earth bar, top and bottom removable gland plates with knockout, and acrylic door with 63A FP RCBO (30 mA) - 1 no, .20A/16A / 6A SP MCB - 12 Nos	D1.2					
252	Supply	D1.2.1	9291	Nos.		0.00	INR Zero Only
253	Fixing	D1.2.2	2613	Nos.		0.00	INR Zero Only
254	LDB - Supply and erection of 12 way single phase distribution board complete with interconnection Copper busbar, Neutral bar, Earth bar, top and bottom removable gland plates with knockout, and acrylic door with the following RCBO/MCBs with 32A DP RCBO (30mA) - 1 no, 20A/16A / 6A SP MCB - 8Nos	D2					
255	Supply	D2.1	6160	Nos.		0.00	INR Zero Only
256	Fixing	D2.2	2287	Nos.		0.00	INR Zero Only
257	PDB & DB	D3					
258	Common PDB for still floor and common area sockets: Supply and erection of 4 way three phase distribution board complete with interconnection Copper busbar, Neutral bar, Earth bar, top and bottom removable gland plates with knockout, with the following RCBO/MCBs with 63A 4P RCBO (30 mA) - 1 no, 20A/16A / 6A SP MCB - 12Nos	D3.1					
259	Supply	D3.1.1	9291	Nos.		0.00	INR Zero Only
260	Fixing	D3.1.2	2218	Nos.		0.00	INR Zero Only
261	Lift control DB: Supply and erection of 8 way sigle phase distribution board complete with interconnection Copper busbar, Neutral bar, Earth bar, top and bottom removable gland plates with knockout, and acrylic door with the following RCBO/MCBs with 25A DP RCBO (30 mA) - 1 no, 20A/16A / 6A SP MCB - 02Nos	D3.2					
262	Supply	D3.2.1	4402	Nos.		0.00	INR Zero Only
263	Fixing	D3.2.2	1633	Nos.		0.00	INR Zero Only
264	Lift power DB: Supply and erection of 16 way single phase distribution board complete with interconnection Copper busbar, Neutral bar, Earth bar, top and bottom removable gland plates with knockout, and acrylic door with the following RCBO/MCBs with 32A 4P RCBO (30 mA) - 1 no, 32A 4P MCB - 01No, 20A/16A / 6A DP MCB - 01No	D3.3					

265	Supply	D3.3.1	7809	Nos.		0.00	INR Zero Only
266	Fixing	D3.3.2	2613	Nos.		0.00	INR Zero Only
267	Common PDB for area lighting: Supply and erection of 4 way three phase distribution board complete with interconnection Copper busbar, Neutral bar, Earth bar, top and bottom removable gland plates with knockout, and acrylic door with the following RCBO/MCBs with . 32A 4P RCBO (30 mA) - 1 no, 20A/16A / 6A SP MCB - 12Nos	D3.4					
268	Supply	D3.4.1	9147	Nos.		0.00	INR Zero Only
269	Fixing	D3.4.2	2287	Nos.		0.00	INR Zero Only
270	Supply and erection of auto controller Timer Box for common lights with 230V timer -1 no, 32A 4 pole contactor -1 no, MCB with C curve-10KA - 40 A 4 pole, 6A DP MCB - 01 Nos all assembled in a thermoplastic /mettalic box with provision for terminating the incoming and out going cables as per the specifications	D4					
271	Supply	D4.1	6054	Nos.		0.00	INR Zero Only
272	Fixing	D4.2	1307	Nos.		0.00	INR Zero Only
273	Supply and erection of auto controller Timer Box for common lights with 230V, 32A 4 pole contactor -1 no, MCB with C curve-10KA - 40 A 4 pole, 6A DP MCB - 01 Nos all assembled in a thermoplastic /mettalic box with provision for terminating the incoming and out going cables as per the specifications.	D5					
274	Supply	D5.1	2623	Nos.		0.00	INR Zero Only
275	Fixing	D5.2	1307	Nos.		0.00	INR Zero Only
276	Light & Fan points	D6					
277	For lighting and exhaust fan points: Wiring for light point with two + one (earth-green) runs of 1.5sq.mm (22/0.3) 1100V grade FRLSH insulated single core multi strand Copper conductor wire (without joint) drawn into the existing PVC Conduit, complete with angle lamp holder or ceiling rose, 6 Amps modular type switch including pulling the wire from existing switch box to lighting point through the conduit and connecting at both ends (The box, Copper FRLSH insulated wire and FRLS PVC conduit ,grid plate and the cover plate for the switch has been covered elsewhere). All items such as 6Amps switch, skirt type angle holder, ceiling rose, hylam sheet for JB's, (wherever applicable) shall be supplied and installed by the contractor as per the requirement, specification.	D6.1					
278	Supply	D6.1.1	211	Point		0.00	INR Zero Only
279	Fixing	D6.1.2	327	Point		0.00	INR Zero Only
280	Wiring for two way light point with 1.5 sq.mm (22/0.3) 1100V grade FRLS insulated single core multi strand Copper conductor wire drawn in the existing PVC conduit and connection at both ends, including Supply of ceiling rose,hylam sheet for JB's, 2 nos. of 2 way switch modular type . The box, grid plate,the cover plate Copper FRLSH insulated wire and FRLS PVC conduit have been covered elsewhere.	D6.2					
281	Supply	D6.2.1	350	Point		0.00	INR Zero Only
282	Fixing	D6.2.2	327	Point		0.00	INR Zero Only

283	For primary lighting points in the stilt floor as well as in the lift lobby corridor in all floors. Wiring for light point with two + one (earth-green) runs of 1.5sq.mm (22/0.3)1100V grade FRLSH insulated single core Copper conductor wire (without joint) drawn into the existing PVC Conduit, complete with angle lamp holder or ceiling rose, directly controlled by MCB in the DB itself including pulling the wire from MCB DB to first lighting point and subsequent loop in loop out in light fittings through the conduit and connecting both the ends. All items such as skirt type angle holder, , ceiling rose, hylam sheet for JB's, shall be supplied and installed by the contractor as per the requirement, specification.(Copper FRLSH insulated wire and FRLS PVC conduit has been covered elsewhere)	D6.3					
284	Supply	D6.3.1	164	Point		0.00	INR Zero Only
285	Fixing	D6.3.2	327	Point		0.00	INR Zero Only
286	For secondary lighting points in the stilt floor as well as in the lift lobby corridor in all floors. Wiring for light point with two + one (earth-green) runs of 1.5sq.mm (22/0.3)1100V grade FRLSH insulated single core Copper conductor wire (without joint) drawn into the existing PVC Conduit, complete with angle lamp holder or ceiling rose, directly controlled by MCB in the DB itself including pulling the wire from MCB DB to first lighting point and subsequent loop in loop out in light fittings through the conduit and connecting both the ends. All items such as skirt type angle holder, , ceiling rose, hylam sheet for JB's, shall be supplied and installed by the contractor as per the requirement, specification.(Copper FRLSH insulated wire and FRLS PVC conduit has been covered elsewhere)	D6.4					
287	Supply	D6.4.1	164	Point		0.00	INR Zero Only
288	Fixing	D6.4.2	261	Point		0.00	INR Zero Only
289	For BLDC ceiling fans: wiring for fan point with two + one (earth-green) runs of 1.5sq.mm (22/03) 1100V grade FRLS insulated single core Copper conductor wire (without joint) drawn into the existing PVC Conduit and connection at either ends, including Supply of PVC conduit , 6Amps modular type switch and hylam sheet for JB's etc. Cost for the box, grid plate and the cover plate have been covered elsewhere. All the wiring materials are to be supplied by the contractor as per the specification.	D6.5					
290	Supply	D6.5.1	159	Point		0.00	INR Zero Only
291	Fixing	D6.5.2	327	Point		0.00	INR Zero Only
292	Wiring for two way fan point with 1.5sq.mm (22/03) 1100V grade FRLS insulated single core Copper conductor wire (without joint) drawn into the existing PVC Conduit and connection at either ends, including Supply of 6Amps two way modular type switch-2nos, and hylam sheet for JB's etc. (The box, Copper FRLSH insulated wire and FRLS PVC conduit ,grid plate and the cover plate for the switch has been covered elsewhere). All the wiring materials and fan hook box are to be supplied and installed by the contractor as per the specifications.	D6.6					
293	Supply	D6.6.1	337	Point		0.00	INR Zero Only
294	Fixing	D6.6.2	490	Point		0.00	INR Zero Only
295	For buzzer/Calling bell points: Supply and wiring for buzzer point with 2 runs of 1.5sq.mm(22/0.3) 1100V grade FRLS insulated Copper conductor wire drawn in the existing conduit, Supply and Installation , hylam sheet for JB's, ceiling rose and connection at both ends complete with Supply of 6A modular type switch and buzzer/Calling bell all as per specification. The bell shall be of ding dong type approved make. (The box,grid plate and the cover plate for the switch, Copper FRLSH insulated wire and FRLS PVC conduit has been covered elsewhere)	D6.7					
296	Supply	D6.7.1	268	Point		0.00	INR Zero Only
297	Fixing	D6.7.2	327	Point		0.00	INR Zero Only

298	6A Power sockets in separate switchboard: Wiring for 6A, 5pin socket outlet with two+one (earth-green) runs of 2.5sq.mm(36/0.3) 1100V grade Copper FRLSH wire drawn through the existing conduit and connection at both the ends, including Supply of 6A 5 pin socket with safety shutter and SP switch modular type (not combined). One end of the earthing wire to be connected at the earth pin of 6A socket and the another end to be connected at the earth bar in the Distribution Board. (The box,grid plate and the cover plate for the switch, Copper FRLSH insulated wire and FRLS PVC conduit has been covered elsewhere)	D6.8					
299	Supply	D6.8.1	256	Point		0.00	INR Zero Only
300	Fixing	D6.8.2	327	Point		0.00	INR Zero Only
301	6A Power sockets in existing switchboard. Supply and fixing of 6A, 5pin socket with safety shutter out let and 6A, modular type switch on the existing switch board. (The box,grid plate and the cover plate for the switch, Copper FRLSH insulated wire and FRLS PVC conduit has been covered elsewhere).The Power Supply will be looped from the existing lighting point available in the same switch board and interconnecting the switches and sockets etc,	D6.9					
302	Supply	D6.9.1	133	Point		0.00	INR Zero Only
303	Fixing	D6.9.2	98	Point		0.00	INR Zero Only
304	Power point for Twin socket:. Wiring of twin socket power point in 6 module box with 3 runs (two+one - earth - green) of 2.5sq.mm(36/0.3) 1100V grade multi strand Copper FRLSH wire drawn through the existing conduit and connection at both the ends, and inter connection of sockets, including Supply of modular type 6A, 5 pin socket-2 nos with safety shutter out let and SP switch-2 nos of approved make. Wires drawn into the existing PVC conduit from existing Switch board point to various switch boards inside the same room as circuit mains. (The box,grid plate and the cover plate for the switch, Copper FRLSH insulated wire and FRLS PVC conduit has been covered elsewhere).	D6.10					
305	Supply	D6.10.1	389	Point		0.00	INR Zero Only
306	Fixing	D6.10.2	490	Point		0.00	INR Zero Only
307	Wiring works	D7					
308	Wiring for 16A/6A , 5 in 1 socket outlet with two runs of 4 sq.mm(56/0.3) and one (earth-green) 2.5Sq.mm.(36/0.3) 1100V grade FRLSH insulated Copper wire drawn through the existing conduit pipe and connection at both the ends, including Supply of modular type 16A/6A, 5 in 1 Socket with safety shutter and switch. Copper wire for earthing to be connected at the earth pin of 16A/6A socket and another end to be connected at the earth bar in the Distribution Board. (The box,grid plate and the cover plate for the switch, Copper FRLSH insulated wire and FRLS PVC conduit has been covered elsewhere).	D7.1					
309	Supply	D7.1.1	364	Point		0.00	INR Zero Only
310	Fixing	D7.1.2	490	Point		0.00	INR Zero Only
311	Wiring for 32 A DP Switch (FOR GEYSER CONTROL) with two runs of 4 sq.mm (56/0.3) 1100V grade FRLS insulated Copper wire and one run of (earth-green) 2.5 Sq.mm. (36/0.3) wire drawn through the existing conduit pipe and connecting the both ends from DB to modular DP switch and from modular DP switch to 25A socket, Including Supply of 25A socket, 5 in 1 socket with safety shutter, 32 A Modular DP switch, Copper wire for earthing to be connected at the earth pin of 25A socket and another end to be connected at the earth bar in the Distribution Board. (The box,grid plate and the cover plate for the switch, Copper FRLSH insulated wire and FRLS PVC conduit has been covered elsewhere).	D7.2					
312	Supply	D7.2.1	710	Point		0.00	INR Zero Only
313	Fixing	D7.2.2	490	Point		0.00	INR Zero Only

314	20A AC socket with 20A/32A MCB: Supply and Installation of Industrial type AC plug 230 V, 20A with 20A, 230V MCB control (20A, SP, 2P+E) as per specification, wiring two runs of 4 sq.mm(56/0.3) and one (earth-green) 2.5Sq.mm.(36/0.3) 1100V grade FRLS insulated Copper wire drawn through the conduit pipe and connection at both AC socket and DB ends . (The box, grid plate and the cover plate for the switch, Copper FRLSH insulated wire and FRLS PVC conduit has been covered elsewhere).	D8					
315	Supply	D8.1	1645	Point		0.00	INR Zero Only
316	Fixing	D8.2	653	Point		0.00	INR Zero Only
317	Wire Pulling works	D9					
318	Pulling of 2RX10.0sq.mm + 1R x 4sqmm (E) wire grade FRLSH insulated single core multistrand with 1100v Copper wire, drawn into the PVC conduit from rising main to Meter box JB, Meter box JB at the electrical duct at each floor level to the 12Way PDB. The termination shall be done by using crimping type Copper lugs of Dowell's make as instructed by engineer – in- charge. (The box, grid plate and the cover plate for the switch, Copper FRLSH insulated wire and FRLS PVC conduit has been covered elsewhere).	D9.1					
319	Supply	D9.1.1	123	Point		0.00	INR Zero Only
320	Fixing	D9.1.2	653	Point		0.00	INR Zero Only
321	Pulling of 2RX6.0sq.mm + 1 x 2.5sqmm (E) wire grade FRLS insulated single core multistrand with 1100v Copper wire, drawn into the PVC conduit from rising main to Meter box JB, Meter box JB at the electrical duct at each floor level to the 12W, LDB. The termination shall be done by using crimping type Copper lugs as instructed by engineer – in- charge. (The box, grid plate and the cover plate for the switch, Copper FRLSH insulated wire and FRLS PVC conduit has been covered elsewhere).	D9.2					
322	Supply	D9.2.1	123	Point		0.00	INR Zero Only
323	Fixing	D9.2.2	653	Point		0.00	INR Zero Only
324	Pulling of 3RX2.5 sq.mm FRLS insulated single core multistrand with 1100v Copper wire, drawn into the PVC conduit from MCB DB to various switch boards as circuit mains. The termination shall be done by using crimping type Copper lugs as instructed by engineer – in- charge. (The box, grid plate and the cover plate for the switch, Copper FRLSH insulated wire and FRLS PVC conduit has been covered elsewhere).	D9.3					
325	Supply	D9.3.1	123	Point		0.00	INR Zero Only
326	Fixing	D9.3.2	490	Point		0.00	INR Zero Only
327	Pulling of 2RX6.0sq.mm + 1 x 2.5sqmm (E) wire grade FRLS insulated single core multistrand with 1100v Copper wire, drawn into the PVC conduit from rising main to the lift LDB/PDB. The termination shall be done by using crimping type Copper lugs as instructed by engineer – in- charge. (The box, grid plate and the cover plate for the switch, Copper FRLSH insulated wire and FRLS PVC conduit has been covered elsewhere).	D9.4					
328	Supply	D9.4.1	123	Point		0.00	INR Zero Only
329	Installation	D9.4.2	653	Point		0.00	INR Zero Only
330	Pulling of 4RX10.0sq.mm + 2R x 4sqmm (E) wire grade FRLS insulated single core multistrand with 1100v Copper wire, drawn into the PVC conduit from rising main JB to Meter box JB, Meter box JB at the electrical duct at each floor level to the 12Way PDB. The termination shall be done by using crimping type Copper lugs as instructed by engineer – in- charge. (The box, grid plate and the cover plate for the switch, Copper FRLSH insulated wire and FRLS PVC conduit has been covered elsewhere). Point wiring DB to bus duct D-Special, E-Tpe	D9.5					

331	Supply	D9.5.1	123	Point		0.00	INR Zero Only
332	Installation	D9.5.2	653	Point		0.00	INR Zero Only
333	Light Fittings	D10					
334	Supply and Installation of Aluminium extruded Decorative 4 feet LED light fitting luminaire having minimum 2000 lumens output with efficacy of >120 lm/watt, all pre wired upto terminal block as per specifications.	D10.1					
335	Supply	D10.1.1	468	Nos.		0.00	INR Zero Only
336	Fixing	D10.1.2	245	Nos.		0.00	INR Zero Only
337	Supply and Installation of Aluminium extruded Decorative 1 or 2 feet mirror light LED light fitting luminaire having minimum 1150 lumens output with efficacy of >110 lm/watt, all pre wired upto terminal block as per specifications.	D10.2					
338	Supply	D10.2.1	360	Nos.		0.00	INR Zero Only
339	Fixing	D10.2.2	163	Nos.		0.00	INR Zero Only
340	Supply and Fixing of LED surface /ceiling mounted down light fitting with minimum 1200 Lumens output with > 110 Lm/W efficacy Opel diffuser for common areas as per specifications, all pre wired upto terminal block as per specifications.	D10.3					
341	Supply	D10.3.1	450	Nos.		0.00	INR Zero Only
342	Fixing	D10.3.2	245	Nos.		0.00	INR Zero Only
343	Supply and fixing of Ceilling /wall / surface mounted bulkhead fitting for outside areas- Weather proof Integrated LED Bulk head luminaire comprises of pressure die cast housing, acrylic diffuser & frame, including all the accessories with IP 65 having minimum 1000 lumens output with efficacy of > 110 lm/watt, wall mounting type as per data sheet, all pre wired upto terminal block as per specifications.	D10.4					
344	Supply	D10.4.1	360	Nos.		0.00	INR Zero Only
345	Fixing	D10.4.2	245	Nos.		0.00	INR Zero Only
346	Supply and Fixing of LED Street light fittings (IP65) with minimum 2500 lumens output having efficacy > 110 Lm/W for external areas as per specifications. Model CG LSTS-25-CDL-M from crompton greaves or equivalent. 01 meter heavy duty G.I. pipe with accessories to be used for fixing the light fitting	D10.5					
347	Supply	D10.5.1	732	Nos.		0.00	INR Zero Only
348	Fixing	D10.5.2	817	Nos.		0.00	INR Zero Only
349	Supply and Fixing of 230V LED bulbs with minimum 700 lumens as per specifications	D10.6					

350	Supply	D10.6.1	279	Nos.		0.00	INR Zero Only
351	Fixing	D10.6.2	163	Nos.		0.00	INR Zero Only
352	Supply and Fixing of LED bulbs , 230V with minimum 1200 Lumen output for flats as per specifications	D10.7					
353	Supply	D10.7.1	450	Nos.		0.00	INR Zero Only
354	Fixing	D10.7.2	163	Nos.		0.00	INR Zero Only
355	Supply and Fixing of LED flood light fittings (IP65) with minimum 30000 lumens output having efficacy > 125 Lm/W for external areas as per specifications	D10.8	6625	Nos.		0.00	INR Zero Only
356	Ceiling & Exhaust Fans	D11					
357	Supply and fixing of 1200mm sweep BLDC ceiling fan(with remote-2Nos)BEE 5 star rated air delivery 210CM/Min including assembling, fixing, Supplying and providing 3 core x 1.0 sq.mm flexible Copper cable and connection between fan and the ceiling rose all as directed by the Engineer – in – charge. Work includes Supply and Installation of GI mettalic cylindrical JB for housing the hook, 8mm dia hook, etc.,	D11.1					
358	Supply	D11.1.1	3149	Nos.		0.00	INR Zero Only
359	Fixing	D11.1.2	653	Nos.		0.00	INR Zero Only
360	Supply & fixing of Exhaust fans 300 mm sweep Heavy duty exhaust fan with double bearing with automatic louver shutters or SS mesh to prevnt entry of birds, rats etc (Louver/ mesh shall be removable from inside) and 3 C x 1.0sq.mm sheathed Copper flexible cable between the existing ceiling rose and the exhaust fan all as per specification	D11.2					
361	Supply	D11.2.1	4567	Nos.		0.00	INR Zero Only
362	Fixing	D11.2.2	1307	Nos.		0.00	INR Zero Only
363	Supply, Installation, testing and commissioning of Rising main bus ducts - Power Rising main - 1 & 2 250A for B blocks, along with all accessories mentioned below Air insulated type Copper busway (3L+N+PE), 100% N, 10KA, crimp closed casing (1mm) made of hot-galvanised sheet steel, pre-lacquered RAL 9001 white, protective conductor (PE) sized >= 50% of cross-section of phases and connected to the casing at each junction, Rated insulation & operating voltage is 690V.	D12					
364	Straight Run with Plug in opening	D12.1	32906	Meter		0.00	INR Zero Only
365	Supply and installation of Flange end - KSC25PG	D12.2	49142	Nos.		0.00	INR Zero Only
366	Supply and installation of End feed unit without 250A 4P MCCB, with R, Y, B & ON, OFF, TRIP Indication lamps and 2A control MCB	D12.3	44985	Nos.		0.00	INR Zero Only
367	Supply and installation of End closure - KSB25FA3	D12.4	4348	Nos.		0.00	INR Zero Only
368	Supply and installation Spring Hanger support at every floor - KS01000ZV3	D12.5	10253	Nos.		0.00	INR Zero Only

369	Supply and installation 63A TPN Tap off box with provision for 8 Module MCB	D12.6	11923	Nos.		0.00	INR Zero Only
370	Supply, Installation, testing and commissioning of 160A Lighting Rising main bus ducts - 1 & 2 for B blocks along with all accessories as mentioned below. 160A, Air insulated type Copper busway (3L+N+PE), 100% N, 4.1KA, crimp closed casing (> 0.8 mm) made of hot-galvanised sheet steel, pre-lacquered RAL 7035/9001 white, protective conductor (PE) sized >= 50% of cross-section of phases and connected to the casing at each junction, Rated insulation & operating voltage is 690V. The rate quoted shall be inclusive of all components required for completing the rising main job in all respect and as per the detailed specifications given in technical specifications.	D13					
371	Straight Run with Plug in opening - KSC16PG	D13.1	31936	Meter		0.00	INR Zero Only
372	Supply and installation of Flange end - KSC25FE	D13.2	47564	Nos.		0.00	INR Zero Only
373	End feed unit without 160A, 4P MCCB with R, Y, B & ON, OFF, TRIP indication lamps, etc	D13.3	45370	Nos.		0.00	INR Zero Only
374	Supply and installation of End closure - KSB25FA3	D13.4	4236	Nos.		0.00	INR Zero Only
375	Supply and installation Spring Hanger support at every floor - KS01000ZV3	D13.5	10044	Nos.		0.00	INR Zero Only
376	Supply and installation 63A TPN Tap off box with provision for 8 Module MCB	D13.6	11923	Nos.		0.00	INR Zero Only
377	Enegy Meters	D14					
378	Supply , installation, testing and commissioning of Single Phase Enegy Meter of approved make / model (housed in a Polycarbonate box) direct measurement of the Real Energy (kWh) on a single-phase network (92 VAC to 276 VAC) up to I _{max} = 63 A. DIN Rail type and shall be of max. depth of 64 mm when installed on the DIN Rail. E. The meter shall communicate via a Modbus RS-485 port. The meter active energy accuracy shall be class 1 conforming to IEC 62053-21 and EN50470-3-IEM2150 - A9MEM2150 and as per the technical specifications .	D14.1	4181	Nos.		0.00	INR Zero Only
379	Supply and installation of 63 A, 'C' Curve, DP MCB	D14.2	1683	Nos.		0.00	INR Zero Only
380	Supply and installation of 32 A, 'C' Curve, DP MCB	D14.3	1209	Nos.		0.00	INR Zero Only
381	Supply , installation, testing and commissioning of three Phase Enegy Meter of approved make / model (housed in a Polycarbonate box) direct measurement of the Real Energy (kWh) on a single-phase network (92 VAC to 276 VAC) up to I _{max} = 63 A. DIN Rail type and shall be of max. depth of 64 mm when installed on the DIN Rail. E. The meter shall communicate via a Modbus RS-485 port. The meter active energy accuracy shall be class 1 conforming to IEC 62053-21 and EN50470-3-IEM2150 - A9MEM2150 and as per the technical specifications .	D14.4	7018	Nos.		0.00	INR Zero Only
382	Supply and installation of 63 A, 'C' Curve, TPN MCB	D14.5	2162	Nos.		0.00	INR Zero Only
383	Supply and installation of 250A 4P 36KA MCCB with spreader	D14.6	19426	Nos.		0.00	INR Zero Only
384	Supply and installation of 160A 4P 25KA MCCB with spreader	D14.7	13914	Nos.		0.00	INR Zero Only
385	Boxes for switch boards:Supply and concealing of factory made epoxy powder coated MS boxes in the wall including Supply and fixing of grid plates, cover plates, hardware, dummy covers, etc. for Installation of the modular switches/sockets. Supply of the switches and sockets have been covered elsewhere.	D15					
386	Supply for 2/3 modules	D15.1	133	Nos.		0.00	INR Zero Only

387	Installation Of 2/3 Modules	D15.2	163	Nos.		0.00	INR Zero Only
388	Supply for 4 modules	D15.3	149	Nos.		0.00	INR Zero Only
389	Installation Of 04 Modules	D15.4	163	Nos.		0.00	INR Zero Only
390	Supply for 6 modules	D15.5	209	Nos.		0.00	INR Zero Only
391	Installation Of 06 Modules	D15.6	163	Nos.		0.00	INR Zero Only
392	Supply for 8 modules	D15.7	261	Nos.		0.00	INR Zero Only
393	Installation Of 08 Modules	D15.8	163	Nos.		0.00	INR Zero Only
394	Supply for 12 modules	D15.9	357	Nos.		0.00	INR Zero Only
395	Installation of 12 Modules	D15.10	196	Nos.		0.00	INR Zero Only
396	Water Heater: Supply and Installation of 5 star rated 15L storage type water Heaters with 304 grade stainless steel tank 9bar pressure compatible with all accessories including chord wire and plug top, brackets etc. of approved make Cascade/Havells/V-guard 15L model suitable for working on 230V AC system all as per specification & as directed by the Engineer – in – charge (electrical connection to heater is covered in separate item.)	D16					
397	Supply	D16.1	11521	Nos.		0.00	INR Zero Only
398	Fixing	D16.2	980	Nos.		0.00	INR Zero Only
399	Earthing	D17					
400	Supply ,Installation, testing and commissioning of maintenance free earthing system- corrosion resistive, molecular bonded copper to high strength steel cores, rod of size 10 feet long and 5/8 inch dia,copper bonded (min. 250 micron thickness) steel rod designed for Electrical grounding system along with moisture enhancer of non corrosive, non soluble , highly hygroscopic, electrical conductive (GEM)-minimum 2 bags of each 11 Kgs ground enhancement material conforming to IEC 62651-7 and required earth rod clamps for terminal connections . Excavation of earth pit, filling with ecofriendly backfill compound , providing necessary concreting & brickwork and casting ,placing of slab as per IS 3043 standard, connection with earth pit as per enclosed drgs.specification of this tender and as directed by Engineer in Charge (Earth wire for connection from earth pit to panels are covered in separate item).	D17.1	17652	Nos.		0.00	INR Zero Only
401	EARTHING with Cu strip : Providing, laying and terminating 25 mm x 5mm copper strip as strip-type earth electrode laid horizontally at 0.5 meter below ground level, including excavation, backfilling, and connection/termination using brass nuts, bolts, spring washers and suitable connectors or clamps. Jointing shall be done by overlapping method with two sets of brass nut-bolt and spring washers spaced at 50 mm, as per IS 3043:2018. All materials used shall be corrosion-resistant and suitable for underground installation. The work includes all accessories and tools for complete installation.	D17.2	998	Meter		0.00	INR Zero Only
402	Supply and Installation of 63Amps TPN FSU with 63Amps HRC Fuses in M S enclosure and angle iron frame with necessary interconnections, and other associated accessories. The box shall have gland plate with provision to terminate 2R X 4C 16 Sq.mm. Aluminium Armoured Cable for LIFT Supply	D18	3891	Nos.		0.00	INR Zero Only
403	lightning Arrester	D19					
404	Supply of 6 mtr long Aluminium pole of 60 mm dia (Approx 17 Kg) with base plate and M20 thread at the top to fix the unit with all hardwares required for installation, ie. Anchor fasteners, brackets, clamps etc. in full set	D19.1	29810	Nos.		0.00	INR Zero Only

405	Supply of 1100V , 70 sqmm FRLSH insulated single core multistand copper cable as per IS 694	D19.2	951	Nos.		0.00	INR Zero Only
406	Supply and Installation of heat shrinkable straight through joint kits for LT Power cable (1100 V grade, XLPE Armoured AL) complete as per drawings and tech specifications for the following cables.	D20					
407	3.5X240 Sq.mm joint kit	D20.1	11326	set		0.00	INR Zero Only
408	3.5C x 150 Sq.mm joint kit	D20.2	8417	set		0.00	INR Zero Only
409	Supply and installation of cable Glands and Termination of LT cables.- Glanding, termination, testing and commissioning of LT Power cables. Scope includes supply and installation of double compression type nickel plated brass cable glands of approved makes suitable for following LT Power cables (1100 grade XLPE, Armoured), removing and refixing after making necessary hole in gland plates, termination of cable using cable gland, supply of aluminium or copper crimping type lugs, clamping of the cable cores, marking with wire number ferrules, supply of all hardware required to complete the job in full as per approved drawings and specification of this tender (Scope includes supply of required size and type of glands and lugs) (For street light poles, the termination of 16 sqmm cable shall be done without cable glands)	D21					
410	Termination of 3.5C x 240 Sq.MM	D21.1	4761	Nos.		0.00	INR Zero Only
411	Termination of 3.5C x 150 Sq.MM	D21.2	4144	Nos.		0.00	INR Zero Only
412	Termination of 3.5C x 120 Sq.MM	D21.3	2872	Nos.		0.00	INR Zero Only
413	Termination of 3.5C x 95 Sq.MM	D21.4	2489	Nos.		0.00	INR Zero Only
414	Termination of 4C x 16 Sq.MM	D21.5	1300	Nos.		0.00	INR Zero Only
415	Supply and Erection of structural steel materials- Providing, fabricating and erection of structural steel supports members made out of M.S.angles, flats, plates, pipes, channels, tubes, rods etc confirming to relevant IS etc., including cost of welding, welding rods, drilling holes, bolts/nuts wherever required and providing and applying two or more coats of approved quality synthetic enamel paint over a coat of zinc chromate yellow primer etc., as per drawings and specifications and per technical specifications	D22	156	kg		0.00	INR Zero Only
416	Supply and installation of cable route marker (LT cable) of 100 mm x 100 mm x 5 mm GI / CI with engraving as per Technical specifications, fixed on ISA 35x35x6 mm-60 cm long, preparation of PCC cube of 250 mm x250mm x 250 mm with 1:2:4 concrete, curing, cleaning , painting with primer and red colour enamel paint on metal parts, shifting to location and install along the cable route by excavating 250 mm deep.	D23	1379	Nos.		0.00	INR Zero Only
417	Design, fabrication,Supply and installation of Main Electrical panels with following components and as per detail technical specifications and drawings: Incomer:- 250A TP+N 36KA Thermal Magnetic type MCCB with Handle+Spreader – 1 set R,Y,B Phase Indication LED Lamp - 1 Set 3 Ph.Digital Multifunction Meter - 1 Set, 250/5A CT - 3 No's 2A 1P Control MCB - 3 Nos Outgoing: - 160A TP+N 25KA TM Based MCCB with Handle+Spreader – 2 Sets Busbar Size: Phase & neutral : 1Rx30x06MM Copper Earth: 25x03MM Copper. Approx. min. Panel size 1000 mm (L) x 1475 mm (H) x 350 mm (D)	D24	175470	Nos.		0.00	INR Zero Only
418	Supply and placing of good quality crusher sand as per specifications.	D25	1782	Cu. Meter		0.00	INR Zero Only
419	Supply and placing of good quality fly ash bricks of size 225mmX115mmX75mm as per the specifications.	D26	10	Nos.		0.00	INR Zero Only
420	LT cable laying - Scope includes preliminary inspection and checking of cable healthiness, testing of cables before laying, Transportation/Mobilisation of cable drum to the work location, Cable laying, Cable preliminary Dressing, tag preparation and clamping, Cable drum deposition & scrap removal to scrap yard, Area cleaning and house keeping as per technical specifications and relevant IS	D27					

421	Laying of 3.5C x 240 Sq.MM LT, XLPE, Alumium armoured cable	D27.1	388	Meter		0.00	INR Zero Only
422	Laying of 3.5C x 185 Sq.MM LT, XLPE, Alumium armoured cable	D27.2	314	Meter		0.00	INR Zero Only
423	Laying of 3.5C x 120 Sq.MM LT, XLPE, Alumium armoured cable	D27.3	239	Meter		0.00	INR Zero Only
424	Laying of 3.5C x 95 Sq.MM LT, XLPE, Alumium armoured cable	D27.4	203	Meter		0.00	INR Zero Only
425	Laying of 4C x 16 Sq.MM LT, XLPE, Alumium armoured cable	D27.5	173	Meter		0.00	INR Zero Only
426	Installation and commissioning of Elelctrical panels supplied in this contract with all accessories as per the specifications.The scope includes welding of base frame with embedded parts available in trench, erection of panels,tesing and commissioning etc to complete the work in full. Supply of all hardwares and consumables required for completing the work is in the scope of contractor.	D28	11041	Nos.		0.00	INR Zero Only
427	Supply and installation of of 6 Mtr, height Octagonal-Hot dip galvanised pole made of 3mm thick HT sheet, steel plate, along with base packets, Suitable arm brackets for mounting 30W LED street light fitting, provisions of cable glanding & termination by ring type lugs foundation bolts etc. Supply of Pole arm or bracket, laying of 3C x 2.5 sqmm unarmoured PVC sheathed multi strand flexible copper cable from Pole JB to LED fittings, Supply of stud type Terminal blocks , 30W LED ,termination of cable and checking the functional features of LED fittings. All other consumables and hardwares including copper lugs and cables required to complete the job in all respects including all hardwares and accessories is in the scope of contractor.	D29	21493	Nos.		0.00	INR Zero Only
428	Earthing of Pole: Supply and installation of 20 mm dia GI rod (of >80 micron) - 3 mtr length, by drilling a hole of 100 mm dia in the soil, installation of earth rod in the hole , filling the hole with electrodite back fill compound of 20 kg, welding of 25mm X 6mm GI flat of 200mm length in GI rod for making earth connection between the Pole and GI rod by nuts, bimetallic washers and bolts etc. all as per specification.	D30	8891	Nos.		0.00	INR Zero Only
429	Earth work excavation by mechanical means(hydraulic excavator) / manual means including soft rock for foundation, trenches etc., in all types of soils below ground level including shoring, strutting, bailing / pumping of water, levelling, ramming the bottom of excavation, refilling with selected excavated materials , consolidating and disposing off the surplus earth at places as directed within a lead of 50 m all as per drawings and specifications. - upto 1.5m depth	D31	248	Cu. Meter		0.00	INR Zero Only
430	25 MM dia FRLS heavy duty PVC Conduits . Supply and embedment of Heavy duty PVC Conduit with all accessories like bends, junction boxes and couplers, factory made PVC covers for all pull JB's, etc. all as per specification. (Measurement shall be based on completed length of conduit with accessories).	D32					
431	Supply of 25 MM dia PVC Conduits	D32.1	40	Meter		0.00	INR Zero Only
432	Installation Of 25 MM dia PVC Conduits .	D32.2	65	Meter		0.00	INR Zero Only
433	32 MM dia FRLS heavy duty PVC Conduits . Supply and embedment of FRLS Heavy duty PVC Conduit with all accessories like bends ,junction boxes and couplers, factory made PVC covers for all pull JB's, etc. all as per specification. (Measurement shall be based on completed length of conduit with accessories).	D33					
434	Supply of 32 MM dia PVC Conduits	D33.1	63	Meter		0.00	INR Zero Only
435	Installation Of 32 MM dia PVC Conduits .	D33.2	65	Meter		0.00	INR Zero Only
436	Supply of 1100V grade FRLSH insulated single core multi strand Copper conductor wire	D34					
437	1.5 sq. mm ISI marked, FRLS/HFFR PVC insulated, single core copper conductor cable	D34.1	25	Meter		0.00	INR Zero Only
438	Supply of 2.5 sq. mm ISI marked, FRLS/HFFR PVC insulated, single core copper conductor cable	D34.2	38	Meter		0.00	INR Zero Only

439	Supply of 4.0 sq. mm ISI marked, FRLS/HFFR PVC insulated, single core copper conductor cable	D34.3	57	Meter		0.00	INR Zero Only
440	Supply of 6.0 sq. mm ISI marked, FRLS/HFFR PVC insulated, single core copper conductor cable	D34.4	86	Meter		0.00	INR Zero Only
441	Supply of 10.0 sq. mm ISI marked, FRLS/HFFR PVC insulated, single core copper conductor cable	D34.5	145	Meter		0.00	INR Zero Only
442	Design of lightning system for high rise building including supply and installation of following item	D35					
443	Supply and installation of Copper, 16mm dia, 1.5 m high with pointed tip Lightning air terminal (rod)	D35.1	12208	Nos.		0.00	INR Zero Only
444	Supply and installation of Heavy-duty PVC / GI Base mounting for air terminal	D35.2	4495	Nos.		0.00	INR Zero Only
445	Supply and installation of Copper strip 25x3 mm for Roof horizontal conductor	D35.3	776	Meter		0.00	INR Zero Only
446	Supply and installation of Copper / SS, weatherproof Conductor clamps & fasteners for roof copper conductor clamping	D35.4	8307	Set		0.00	INR Zero Only
447	Supply and installation of copper cable 50 Sq.mm	D35.5	703	Meter		0.00	INR Zero Only
448	Supply and installation of Copper, bolted type Test link / testclamp	D35.6	4008	Nos.		0.00	INR Zero Only
449	Supply and installation of Copper saddles at 1 m spacing	D35.7	121	Nos.		0.00	INR Zero Only
450	Supply and installation of Copper bonded rod 17 mm dia x 3 m Earth electrode	D35.8	7265	Nos.		0.00	INR Zero Only
451	Supply and installation of Earth pit chamber Heavy-dutyconcrete / FRP with cover	D35.9	5090	Nos.		0.00	INR Zero Only
452	Supply and application of Bentonite /conductivecompound	D35.10	1992	Kg		0.00	INR Zero Only
453	Supply and installation of Copper earth rod clamps	D35.11	2846	Nos.		0.00	INR Zero Only
454	Supply and installation of Copper cable 16 Sq.MM	D35.12	274	Meter		0.00	INR Zero Only
455	Supply and installation of Copper / brass bonding clamps	D35.13	248	Nos.		0.00	INR Zero Only
456	Supply and installation of 3-phase, 50 kAminimum Type 1+2 SPD	D35.14	12299	Nos.		0.00	INR Zero Only
457	Supply and installation of Type 2 SPD Distribution boardprotection	D35.15	10545	Nos.		0.00	INR Zero Only
458	0.5mm dia annealed copper conductor 200 pair jelly filled armored Telephone cable as per technical specification, .Recommended Make: Delton/Havells/Finolex/Reliance	E1					

459	Supply	E1.1	3400	Meter		0.00	INR Zero Only
460	Laying	E1.2	3400	Meter		0.00	INR Zero Only
461	0.5mm dia annealed copper conductor 50 pair jelly filled armored Telephone cable as per technical specification. Recommended Make: Delton/Havells/Finolex/Relian	E2					
462	Supply	E2.1	1300	Meter		0.00	INR Zero Only
463	Laying	E2.2	1300	Meter		0.00	INR Zero Only
464	Laying	E3	1200	Meter		0.00	INR Zero Only
465	pLB High density poly ethelene flexible pipe 32 mm dia as per the technical specification. Recommended make duraline/Jain irrigation/kriti India/gamson India/Aspra industries	E4					
466	Supply	E4.1	1550	Meter		0.00	INR Zero Only
467	Laying	E4.2	1550	Meter		0.00	INR Zero Only
468	Supply of 5 Pair 0.5Mm Armoured Telephone Cable, petroleum jelly filledwith poly-Al laminate moisture barrier,polythene sheathed,G.S.tape armoured polythene jacketed,telephone cables as per specification. Recommended make: finolex, Polycab, Delton	E5	1000	Meter		0.00	INR Zero Only
469	10 pair solid tinned copper 0.5mm dia telecommunication cable with jelly filled Armoured PVC/polyethylene insulation, individual pair , PVC sheath. [Recommended Make: finolex, delton, Havell, Lapp, Servel, Reliance, R&M, RR Kabel]	E6					
470	Supply	E6.1	2000	Meter		0.00	INR Zero Only
471	Laying	E6.2	1000	Meter		0.00	INR Zero Only
472	Supply of CAT6 LAN Cable delivers high-speed, reliable Gigabit Ethernet connectivity, Low attenuation and high performance over long distances, Reduces crosstalk and electromagnetic interference. Recommended make: D Link, Finolex, Elixir	E7	305	Meter		0.00	INR Zero Only
473	Joints kits for Telephone cable and its installation (Upto 200 pair cable) as per technical specification	E8					
474	Supply	E8.1	18	No.		0.00	INR Zero Only
475	Installation	E8.2	18	No.		0.00	INR Zero Only
476	Supply of Telephone coilcord cable, CAT3 Flat cable 4 X 0.10 Copper Foil Wire as per Technical specification	E9	700	No.		0.00	INR Zero Only
477	Joints kits for Telephone cable and its installation (Upto 50 pair cable) as per technical specification	E10					
478	Supply	E10.1	16	No.		0.00	INR Zero Only

479	Installation	E10.2	16	No.		0.00	INR Zero Only
480	500 pair fabricated Telephone junction box by using CRCA sheet as per IS-513 as mentioned below. Rack Standard: Conforms to outdoor application, sheet thickness: 2 mm as per technical specification	E11					
481	Supply	E11.1	2	No.		0.00	INR Zero Only
482	Installation	E11.2	2	No.		0.00	INR Zero Only
483	50 pair junction box Size 250 x 400 x 12 IP 65 Glass fiber reinfoced POLYSTER / Polycarbonate SMC as per technical specification Make: Hensel, Devipolymer, Scame, Rittal, Ensto, ADC Krone, Spelsberg]	E12					
484	Supply	E12.1	10	No.		0.00	INR Zero Only
485	Installation	E12.2	10	No.		0.00	INR Zero Only
486	10 Pair junction box Size 250 x 255 x 120 IP 65 Glass fiber reinfoced POLYSTER / Polycarbonate SMC as per technical specification. Recommended Make: Hensel, Devipolymer, Scame, Rittal, Ensto, Spelsberg	E13					
487	Supply	E13.1	53	No.		0.00	INR Zero Only
488	Installation	E13.2	53	No.		0.00	INR Zero Only
489	Supply of Basic Telephone instruments without caller ID telephone as per technical specification. [Recommended Make: Euroset/ Beutel/ Signtel]	E14	180	No.		0.00	INR Zero Only
490	3 pair solid tinned copper 0.5mm dia telecommunication cable with PVC/polyethylene insulation, individual pair , PVC sheath. Recommended Make: finolex, delton, Havell, Lapp, Servel, Reliance, R&M, RR Kabel]	E15					
491	Supply	E15.1	29150	Meter		0.00	INR Zero Only
492	Laying	E15.2	29150	Meter		0.00	INR Zero Only
493	Supply of Caller ID with Name Display telephone instrument as per technical specification. Recommended Make: Panasonic, Signtel, Uniden	E16	220	No.		0.00	INR Zero Only
494	2x2 lines Modular Telephone wall Sockets (RJ11) and termination of cable at both the ends as per technical specification. . Recommended Make: Myrius / Mylink / MDS Maosic / MK India / Schneider / SIEMENS	E17					
495	Supply	E17.1	773	Set		0.00	INR Zero Only
496	Installation	E17.2	773	Set		0.00	INR Zero Only
497	Supply of Digital TDM Phone Black Color with LCD Display and 12 Keys, Phone can be used in a HiPath 4000 V.11 as per technical specification. Recommended make: Unify open stage 15D/Siemens/Proglity	E18	50	No.		0.00	INR Zero Only
498	HOT DIP Galvanised perforated type cable trays size 60mm(SH)X100mm Wx 3000mm L with cover as per the technical specification. [Recommended Make cable tray : NIDEX/SNIDER/OBO BETTERMAN	E19					

499	Supply	E19.1	500	Meter		0.00	INR Zero Only
500	Installation	E19.2	500	Meter		0.00	INR Zero Only
501	Supply of 1:32 Passive Splitters as per technical specification. Recommended make: Fober, Syrotech, Molex	E20	10	No.		0.00	INR Zero Only
502	Fiber Termination Box for 1: 32 fibers splitting , designed for connect feeder/distribution cable to drop cable using PLC splitter of Drop cables as per technical specification. Suggested Make: Net link, Fober, Syrotech, Molex	E21					
503	Supply	E21.1	10	No.		0.00	INR Zero Only
504	Installation	E21.2	10	No.		0.00	INR Zero Only
505	Supply of Single Mode SC UPC to LC UPC Simplex Fiber Optic Patch Cable SM -20mtr as per technical specification, Recommended Make: Netlink/Syrotech/Optrotech	E22	10	No.		0.00	INR Zero Only
506	Fabricated OFC Out door junction box by using CRCA sheet as per technical specification. size 60cm (Height) X 30Cm (Width) X 50cm (Length)	E23					
507	Supply	E23.1	2	No.		0.00	INR Zero Only
508	Installation	E23.2	2	No.		0.00	INR Zero Only
509	Supply of Simplex Single Mode SC/UPC to SC/UPC Optical Fiber Patch Cord Cable 1 Meter, flame-retardant and environmentally safe Jacket as per technical specification. Recommended make : Netlink/Syrotech/Optrotech	E24	100	No.		0.00	INR Zero Only
510	24 port Fiber Distribution Box (Outdoor Box) . Suggested Make : Net link, Fober, Syrotech	E25					
511	Supply	E25.1	2	No.		0.00	INR Zero Only
512	Installation	E25.2	2	No.		0.00	INR Zero Only
513	Supply of Single Band ONT Modem, 1 x 10/100/1000Mbps+1 x 10/100 auto adaptive Ethernet interfaces, RJ45 connectors and 1 FXS, RJ11 connectors as per technical specification. Recommended make : Netlink/Syrotech/Optrotech	E26	50	No.		0.00	INR Zero Only
514	12 Core OFC Distribution Box as per technical specification. Suggested Make: Netlink/Syrotech/Optrotech	E27					
515	Supply	E27.1	3	No.		0.00	INR Zero Only
516	Installation	E27.2	3	No.		0.00	INR Zero Only
517	Supply of Cordless Phone Telephone instruments as per technical specification. [Recommended Make: Panasonic/ Uniden/ Motorola]	E28	50	No.		0.00	INR Zero Only
518	Optical fiber cable 6 core armoured OFC cable for FTTH and Fire Alarm network looping from control panel to Repeater panel as per the technical specification. Suggested Make: Commscope / Systimax /Panduit-Pan Net/TE-Amp/ADC Krone / R&M / Molex	E29					

519	Supply	E29.1	2900	Meter		0.00	INR Zero Only
520	Laying	E29.2	2900	Meter		0.00	INR Zero Only
521	Supply of Dual Band ONT, 2.4GHz & 5GHz Wi-Fi Router, 1200 Mbps, GPON/EPON Compatible, 2 Ethernet Ports as per technical specification. Recommended Make: Panasonic/ Uniden/ Motorola	E30	50	No.		0.00	INR Zero Only
522	Optical fiber cable 24 core armoured OFC cable FTTH and Fire Alarm network looping from control panel to Repeater panel as per the technical specification. Suggested Make: Commscope / Systimax /Panduit-Pan Net/TE-Amp/ADC Krone / R&M / Molex	E31					
523	Supply	E31.1	3900	Meter		0.00	INR Zero Only
524	Laying	E31.2	3900	Meter		0.00	INR Zero Only
525	Supply of Wifi range Extender Dual-band 2.4 GHz + 5 GHz speeds of up to 1200 Mbps as per technical specification. [Recommended Make: Tp Link/ Digisol/ D link]	E32	6	No.		0.00	INR Zero Only
526	PLB High density poly ethelene flexible pipe 32 mm dia as per the technical specification. Recommended make duraline/Jain irrigation/kriti India/gamson India/Aspra industries	E33					
527	Supply	E33.1	7600	Meter		0.00	INR Zero Only
528	Laying	E33.2	7600	Meter		0.00	INR Zero Only
529	OFC Splicing for 1 core along with preparation of OTDR as per technical specification	E34	630	No.		0.00	INR Zero Only
530	Wall outlet (Face Plate) with pigtail and SC Type coupler as per technical specification. Recommended make: Netlink/Syrotech/Optrotech	E35					
531	Supply	E35.1	256	No.		0.00	INR Zero Only
532	Installation	E35.2	256	No.		0.00	INR Zero Only
533	Supply of SC/SC Type OFC UPC connector Patch cord (3 Meter) For FTTH connecion to Qtrs and Fire Alarm network looping as per technical specification. Recommended make: Netlink/Syrotech/Optrotech	E36	200	No.		0.00	INR Zero Only
534	2F Single Mode Flat Drop (Easy Strip) Indoor / Outdoor Cable, (A2 type cable) as per technical specification. Recommended make: TE/Molex/R&M/Krone	E37					
535	Supply	E37.1	10280	Meter		0.00	INR Zero Only
536	Laying	E37.2	10280	Meter		0.00	INR Zero Only
537	Supply of Single Mode SC UPC to SC UPC Simplex Fiber Optic Patch Cable SM - 20mtr (65ft) Recommended Make: Netlink/Syrotech/Optrotech	E38	10	No.		0.00	INR Zero Only
538	Dome Fiber Optic Splice Closure 24 Fibers Cable Joint Kit,Suggested Make: Commscope / Systimax /Panduit-Pan Net/TE-Amp/ADC Krone / R&M / Molex	E39					

539	Supply	E39.1	8	No.		0.00	INR Zero Only
540	Installation	E39.2	8	No.		0.00	INR Zero Only
541	Supply of Jumper Wire 2X0.60mm, Bare Copper Wire connecting in Telephone main Distribution Box(MDF) as per technical specification. Tele Link/Sanchar/Aruhilita	E40	5000	Meter		0.00	INR Zero Only
542	Supply of 8-Port Gigabit Ethernet Unmanaged Switch with 1 dedicated 10G/Multi-Gig Port as per technical specification. Recommended Make: NetGear/ D Link/TP Link	E41	4	No.		0.00	INR Zero Only
543	RG-6 T.V Coaxial cables with solid polyethylene dielectric, 1.15 mm dia cored, poly laminated aluminium tape, Jelly filled, PVC sheath cable. Recommended Make:finolex, delton, havells, comscope, R&M, RR Kabel	E42					
544	Supply	E42.1	15550	Meter		0.00	INR Zero Only
545	Laying	E42.2	15550	Meter		0.00	INR Zero Only
546	Supply of GPON OLT 4 PON, 4*GPON,2GE(RJ45)+2*10GE(SFP+) Dual power modules available in DC/AC as per technical specification. Recommended make: Netlink/Syrotech/Optrotech	E43	1	No.		0.00	INR Zero Only
547	Outdoor wall Mounting Junction Box - 120 x 185 x 150 mm PVC Weatherproof Enclosure, IP 67 For CATV Junction box. Recommended Make:Alpine/ Excel /RTC	E44					
548	Supply	E44.1	3	No.		0.00	INR Zero Only
549	Laying	E44.2	3	No.		0.00	INR Zero Only
550	Supply of 1:8 Passive Splitter as per technical specification. Recommended make: Netlink/Syrotech/Optrotech	E45	1	No.		0.00	INR Zero Only
551	Four Module type Modular T.V Coaxial socket(1 Socket and 3 Dummy).as per technical specificationSize: Four Module. Recommended Make: MK blenze / Siemens / legrand	E46					
552	Supply	E46.1	124	No.		0.00	INR Zero Only
553	Installation	E46.2	124	No.		0.00	INR Zero Only
554	Supply of PVC Casing & Caping 32mm, made of PVC material, standard lengths 2 meters, excellent rigidity and resistance to fire & corrosion as per technical specification. Recommended Make: Red Gold, AKG, MX	E47	300	No.		0.00	INR Zero Only
555	Two Module type Modular T.V Coaxial socket as per technical specification . Size: Two Module Recommended Make: MK blenze / Siemens / legrand	E48					
556	Supply	E48.1	735	No.		0.00	INR Zero Only
557	Installation	E48.2	735	No.		0.00	INR Zero Only
558	Supply of Fire Alarm System Addressable Manual Call Point (MCP), suitable to connecting with GST Fire alarm control panel as per technical specification. Recommended Make:GSt,COOPER Fire, Morley Honeywell	E49	24	No.		0.00	INR Zero Only

559	Two loop Fire Alarm Control Panel, 2 No of loop card and 2 Nos of network card including 2 Nos of 7AH/12V battery for backup as per Technical specification. Recommended Make: Morley Honeywell, GST, COOPER Fire	E50					
560	Supply	E50.1	5	No.		0.00	INR Zero Only
561	Installation, Erection, Testing & Commissioning	E50.2	5	No.		0.00	INR Zero Only
562	Supply of Intelligent Analogue Addressable Multi Criteria type smoke cum thermal detector with standard base, suitable to connecting with Morley IAS Honeywell Fire Alarm control panel. Recommended make: morley Honeywell. GST, COOPER Fire	E51	180	No.		0.00	INR Zero Only
563	Fire Alarm Active Repeater panel including 2 Nos of 7AH/12V, which is looping with Control panel of Fire Alarm system as per Technical specification. Recommended Make: Morley Morley Honeywell, GST, COOPER Fire	E52					
564	Supply	E52.1	3	No.		0.00	INR Zero Only
565	Installation, Erection, Testing & Commissioning	E52.2	3	No.		0.00	INR Zero Only
566	Supply of Hinged Cover For fitted with Manual Call Point of Morley & GST MCP'S, suitable to connecting with GST Fire alarm control panel as per technical specification. Recommended Make: GST, Morley, COOPER Fire	E53	500	No.		0.00	INR Zero Only
567	Analogue Addressable Manual Call Point. Recommended Make: Morley Honeywell, GST, COOPER Fire	E54					
568	Supply	E54.1	120	No.		0.00	INR Zero Only
569	Installation	E54.2	120	No.		0.00	INR Zero Only
570	Supply of Laminated Hylam Sheet, For outdoor, closing of FRLS cable Junction box size 6x4 inch. Recommended Make: INSOL/Sunmica/Maroon	E55	100	No.		0.00	INR Zero Only
571	Analogue Intelligent Wall Mounted Sounder Red with Pure White skirt [Recommended Make: Morley Honeywell, GST, COOPER Fire	E56					
572	Supply	E56.1	120	No.		0.00	INR Zero Only
573	Installation	E56.2	120	No.		0.00	INR Zero Only
574	Supply of Fire Alarm System Sounder, Single/dual Addressable Sounder Cum Strobe, suitable to connecting with GST Fire alarm control panel as per technical specification. Recommended Make: GST, COOPER Fire, Morley Honeywell	E57	24	No.		0.00	INR Zero Only
575	2 core 1.5 sq.mm FRLS Cable as per technical specification Recommended Make: finolex, delton, Havell, Lapp, Serval, Reliance, R&M, RR Kabel	E58					
576	Supply	E58.1	4000	Meter		0.00	INR Zero Only
577	Laying	E58.2	4000	Meter		0.00	INR Zero Only
578	20mm PVC Concealing Conduit with fittings for laying of 3 pair Telephone cables, OFC Flat Drop cables, RG 6 coaxial cables & FAS FRLS cables. Make: Aimson, AKG, Avonplast	E59					

579	Supply	E59.1	57730	Meter		0.00	INR Zero Only
580	Installation	E59.2	57730	Meter		0.00	INR Zero Only
581	Supply of 25mm PVC wiring pipe typically has a 25mm outer diameter, made of PVC material, standard lengths 3 meters as per technical specification. Recommended Make: Aimson, AKG, Avonplast	E60	300	No.		0.00	INR Zero Only
582	RS485 Seerial port to OFC Converter (SC Type Connector) as paer Technical specification. Recommended Make: 3onedata/MOXA/UOTEK	E61					
583	Supply	E61.1	14	No.		0.00	INR Zero Only
584	Installation	E61.2	14	No.		0.00	INR Zero Only
585	Supply of 1:2 Passive Splitters (50:50) as per technical specification. Recommended make: Fober, Syrotech,Molex	E62	5	No.		0.00	INR Zero Only
586	6U network rack as per Technical specification. Recommended Make: DLink/Rittel/President	E63					
587	Supply	E63.1	7	No.		0.00	INR Zero Only
588	Installation	E63.2	7	No.		0.00	INR Zero Only
589	Supply of 1:4 Passive Splitters (50:50) as per technical specification. Recommended make: Fober, Syrotech,Molex	E64	5	No.		0.00	INR Zero Only
590	24 core Single mode SC Type Fully Loaded UPC connectors LIU as paer Technical specification. Recommended Make: Fober, Syrotech, DBC	E65					
591	Supply	E65.1	8	No.		0.00	INR Zero Only
592	Installation	E65.2	8	No.		0.00	INR Zero Only
593	SIGNAGES : Supply & installing in position of various size of sign boards made out of 3 mm thick "opaque" PVC foam board with computer cut, PVC non reflective self adhesive vinyl painted foam board. 1. Printed signage (IN CASE OF FIRE USE STAIR UNLESS INSTRUCTED OTHERWISE) as per technical specification 2. Floor Identification signages.(ie. GROUND FLOOR.....etc) as per technical specification. 3. signages of FIRE EXTINGUISHER as per technical specification. 4. signages of ASSEMBLY POINT as per technical specification. 5.signages of Instruction of FIRE ALERT as per technical specification. 6.signages of Instruction of FIRE ORDER as per technical specification. Recommended Make: SUNSIGNS/Pushp/Protector	E66					
594	Supply	E66.1	5	SET		0.00	INR Zero Only
595	Installation	E66.2	5	SET		0.00	INR Zero Only
596	Excavation and refilling for laying of Under ground Telephone Cable and HDPE Pipe laying for OFC cable as per location requirement.	E67	1755	Cu. Meter		0.00	INR Zero Only

597	Manufacture, Supply, Storage at site, Assembly, fabrication, erection, welding, inspection and testing, Guarantee, documentation and handing over of Fire Protection System wet risers cum down comers comprising 12.5 HP Terrace pump with all accessories required for auto start and stop, pressure gauges, pressure switches, Power cable, control panels, Fire Hydrant, Fire Brigade Inlet, valves, pipe and pipe fittings, Firehoses with male / female end fittings and Nozzles, Hose reel drums with braided hose, hose boxes, fire extinguishers with finish painting, including all man power, tools and tackles, plants and machinery for completion of the work as per the tender technical specifications supplied and instructed by NPCIL Engineer including obtaining statutory clearances from Tamilnadu Fire and Rescue Services (TNFRS) authorities.	F1	5	Each		0.00	INR Zero Only
598	Applicable GST Rate (%) Included in the Quoted Price						
Total in Figures						0.00	INR Zero Only
Quoted Rate in Figures				Select		0.0000	Zero Only
Quoted Rate in Words		INR Zero Only					