Office of Executive Engineer,
Structural & Quality Control Cell,
Tamil Nadu Urban Habitat
Development Board,
No.5, Kamarajar Salai, Chennai – 5.

STABILITY CERTIFICATE

The detailed engineering and structure design of the proposed construction of building comprising Block 1 to 238 of Twin Houses with 476 (Ground floor only) Dwelling Units Pottalkalam Phase-I in Ward B, Block: 7, T.S.Nos: 2/1Apt, 2/1B2pt, 2/4Bpt, 3/3B, 3/4, 3/5B, 3/6A1pt, 3/6A2Apt, 3/6B, 3/8, 3/9, 3/10 & 3/11 (Old.S.Nos.1459/3, 1463, 1465/1Bpt, 1465/2pt, 1465/3pt, 1465/4pt, 1465/5,1466/1, 1466/2, 1466/3Apt & 1466/3Bpt) & Block: 13, T.S.Nos: 3/2A, 4/2B, 5/1, 5/2A, 5/3 & 6/2 (Old.S.Nos. 2047/2pt, 2048, 2049/1, 2049/2, 2050pt, 2050/2pt & 2052 pt) Theni - Allinagaram Municipality has been done by me/us based on the report of geotechnical investigation (soil test) done by Government College of Engineering, Bodinayakanur Report No. GCE/PCE/SOIL/86C/2020 Dated 30.12.2020 and considering the functional requirement of the building.

2. It is certified that among other factors, the proposed building has been designed to resist earthquake. I/We have checked various parameters and found that the proposed building would be safe.

3. I/We further certify that:

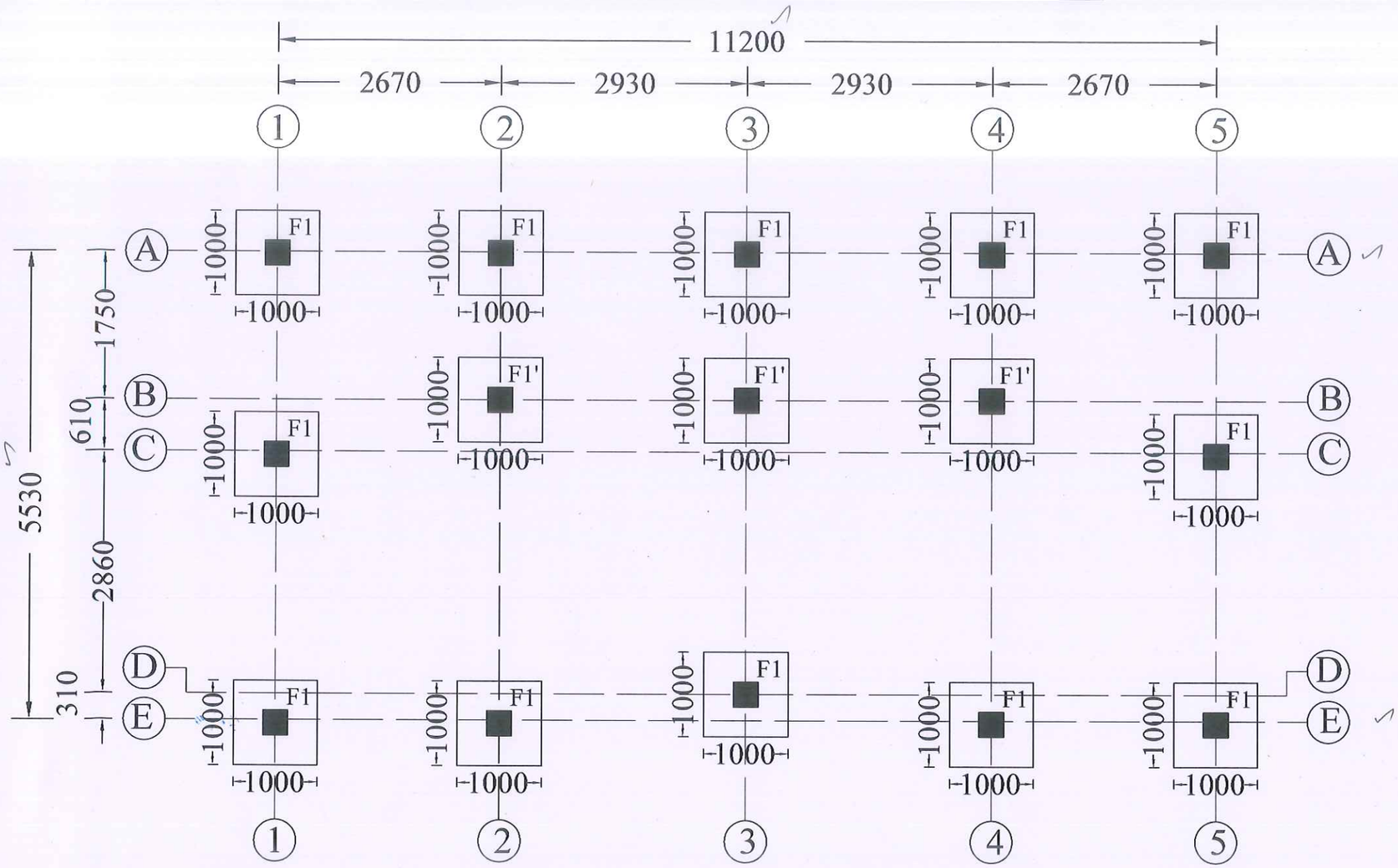
(i) The minimum grade of concrete is M25.

(ii) The design and analysis has been done using the code of practice for plain and reinforced concrete as per IS 456:2000, live load 2 KN/m^2 as per IS 875 Part II and designed for earthquake resistant structure as per IS Code 4326:2013.

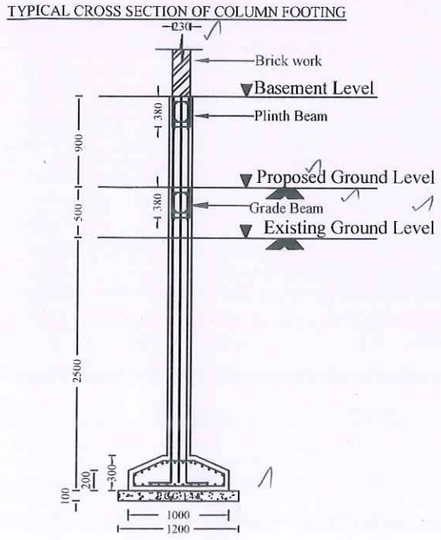
4. The building will be safe and sound when used for the purpose for which it is designed.

R. VENKATESAN, M.E.,
Assistant Engineer
Registered Structural Engineer Grade-I (SE)
Registration No: SE/I/2024/4/0073
Tamil Nadu Urban Habitat Development Board
No. 5, Kamarajar Salai, Chennai-600 005.

PLAN AT FOUNDATION LEVEL



TYPICAL CROSS SECTION OF COLUMN FOOTING



SCHEDULE OF COLUMN FOOTINGS

Sl.No.	Footing Marking	Number of Footings	PCC Mat (mm x mm)	RCC Footing (mm x mm)	Thickness Near Column (mm)	Edge Thickness (mm)	Reinforcement in Footing (mm)
1.	F1	12	1200 x 1200	1000 x 1000	300	200	Bottom : # 10 mm @ 150 mm C/C both ways Top : # 10 mm @ 230 mm C/C both ways
2.	F1'	03	1200 x 1200	1000 x 1000	300	200	Bottom : # 10 mm @ 150 mm C/C both ways

TRUE COPY

8/7/21

EXECUTIVE ENGINEER
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU SLUM CLEARANCE BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005

8/7/21

NOTE :

1. All the dimensions are in mm unless noted otherwise.
2. All the RCC works shall be as per design mix of M25 grade conforming to IS: 456 - 2000, the average compressive strength not less than 29 N / sq.mm and no single specimen can have compressive strength less than 21N / sq.mm.
3. Design mix report should be got approved by the Anna University / IIT Madras / PWD.
4. All the reinforcement shall be of Fe 500D grade conforming to IS 1786 - 2008 unless noted otherwise.
5. All structural drawings shall be read in conjunction with the relevant Architectural drawings.
6. Clear cover for reinforcement are as follows:
   (a) Foundation - 50 mm
   (b) Column - 40 mm
   (c) Floor and roof beam - 30 mm
   (d) Slab - 25 mm
7. Ductile detailing of the reinforced concrete members as stipulated in IS: 13920 - 2016 should be scrupulously followed.
8. The Super Structure is designed to rest on the stub column - beam and isolated footing.
9. Design of the structure carried out with Limit State Method using STAAD PRO.
10. Structure is designed for Ground floor only.
11. The depth of foundation shall be 2.5 m from the existing ground level.
12. The recommended bearing capacity at this level is 250 kN / sq.m.
13. Fly Ash Brick Masonry has been considered for masonry work.
14. Based on the information provided by the EE, the analysis has been done considering the bottom level of footing is same in a block. In case of change in level of the footing during construction, this has to be brought to the knowledge of the undersigned and revision if any needed should be made accordingly
15. Field Engineers should ensure that the soil at the recommended founding depth is in conformity to the soil characteristic detailed in the soil test report. If any variation in soil strata is encountered at the recommended foundation depth, then the same should be informed to the Chief Engineer atonce for review.
16. Ground water quality has to be conformed for suitability to construction work.
17. The ground water to be tested for chlorides & sulphates and remedial measures if any should be taken accordingly.
18. Dimensions and levels are to unfinished surface excluding finishes,coating etc., unless noted otherwise. The dimension should be checked with type design drawing.
19. All PCC works should be carried out with PCC 1:4:8 conforming to IS: 456 - 2000.
20. Lapping of column bars shall be midway between slabs and staggered with lap length not less than 50 ∅.
21. Anchorage of column bars into the footings shall not be less than 50 ∅.
22. The recommendations detailed in the soil investigation report of Department of Civil engineering , Government College of Engineering, Bodinayakkanur, report No.: GCE/PCE/SOIL/86C/2020, Dated :30.12.2020. should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 504 TENEMENTS (TWIN HOUSES) AT POTTALKALAM PHASE - I IN THENI DISTRICT UNDER PMAY(U) - HFA(AHP) SCHEME.

TITLE:
PLAN AT FOUNDATION LEVEL,TYPICAL CROSS SECTION & SCHEDULE OF COLUMN FOOTINGS.

TYPE DESIGN NO.: 37/2018

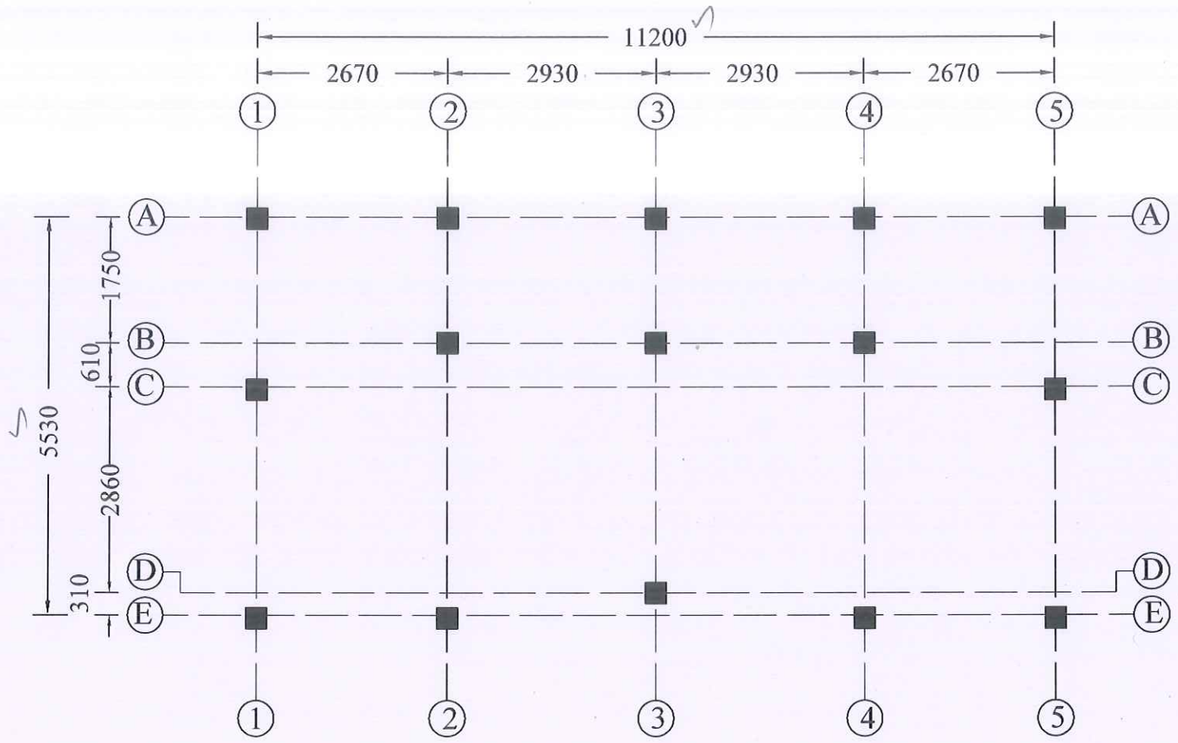
DWG.NO.: TNSCB / POTTALKALAM PH - I / 01

REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**Sd.xxx 07/07/21. SE - PMU**
Sd.xxxxx. SE -Madurai	**Sd.xxxxx. Chief Engineer-Madurai**

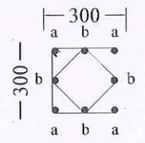
STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU SLUM CLEARANCE BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

COLUMN LAYOUT



SCHEDULE OF COLUMNS

NOTE:
All Column should be terminated at Plinth beam level

Sl.No.	Column Marking	Size (mm x mm)	Column Verticals	Lateral Ties	Cross Section	Ties Profile	
1.	ALL COLUMNS	300 x 300	# 16 - 4 Nos + #12 - 4 Nos	# 8 @ 95 mm c/c			

Notes: In Cross Section a - # 16 mm b - # 12 mm

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EXECUTIVE ENGINEER
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU SLUM CLEARANCE BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005

NOTE :
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7. Ductile detailing of the reinforced concrete members as stipulated in IS: 13920 - 2016 should be scrupulously followed.
8. The Super Structure is designed to rest on the stub column - beam and isolated footing.
9. Design of the structure carried out with Limit State Method using STAAD PRO.
10. Structure is designed for Ground floor only.
11. The depth of foundation shall be 2.5 m from the existing ground level.
12. The recommended bearing capacity at this level is 250 kN / sq.m.
13. Fly Ash Brick Masonry has been considered for masonry work.
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STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 504 TENEMENTS (TWIN HOUSES) AT POTTALKALAM PHASE - I IN THENI DISTRICT UNDER PMAY(U) - HFA(AHP) SCHEME.

TITLE:
COLUMN LAYOUT & SCHEDULE OF COLUMNS.

TYPE DESIGN NO.: 37/2018

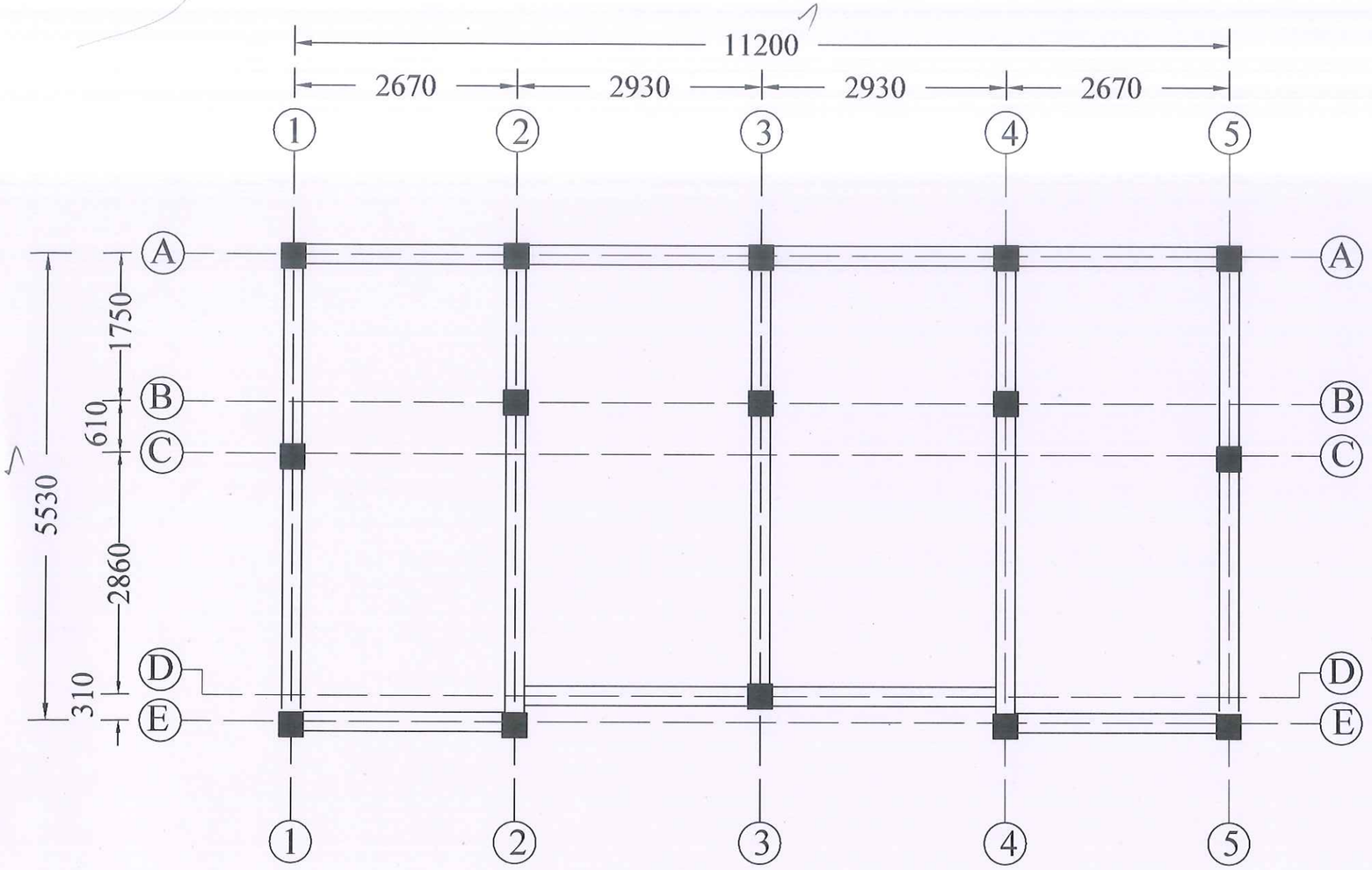
DWG.NO.: TNSCB / POTTALKALAM PH - I / 02

REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**Sd.xxx 07/07/21. SE - PMU**
Sd.xxxxx. SE -Madurai	**Sd.xxxxx. Chief Engineer-Madurai**

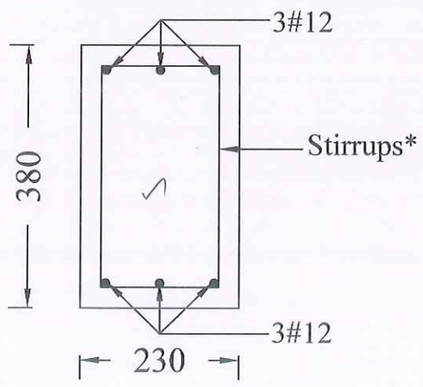
STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU SLUM CLEARANCE BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

GRADE BEAM LAYOUT



GRADE BEAM DETAILS

ALL BEAMS



NOTE:
* 2 Legged # 8 mm stirrups at 100 mm c/c for 900 mm length on all sides near Beam - Column junctions and the rest at 120 mm c/c.

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8/7/21
EXECUTIVE ENGINEER
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU SLUM CLEARANCE BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.
8/7/21

NOTE :
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STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 504 TENEMENTS (TWIN HOUSES) AT POTTALKALAM PHASE - I IN THENI DISTRICT UNDER PMAY(U) - HFA(AHP) SCHEME.

TITLE:
GRADE BEAM LAYOUT & DETAILS.

TYPE DESIGN NO.: 37/2018

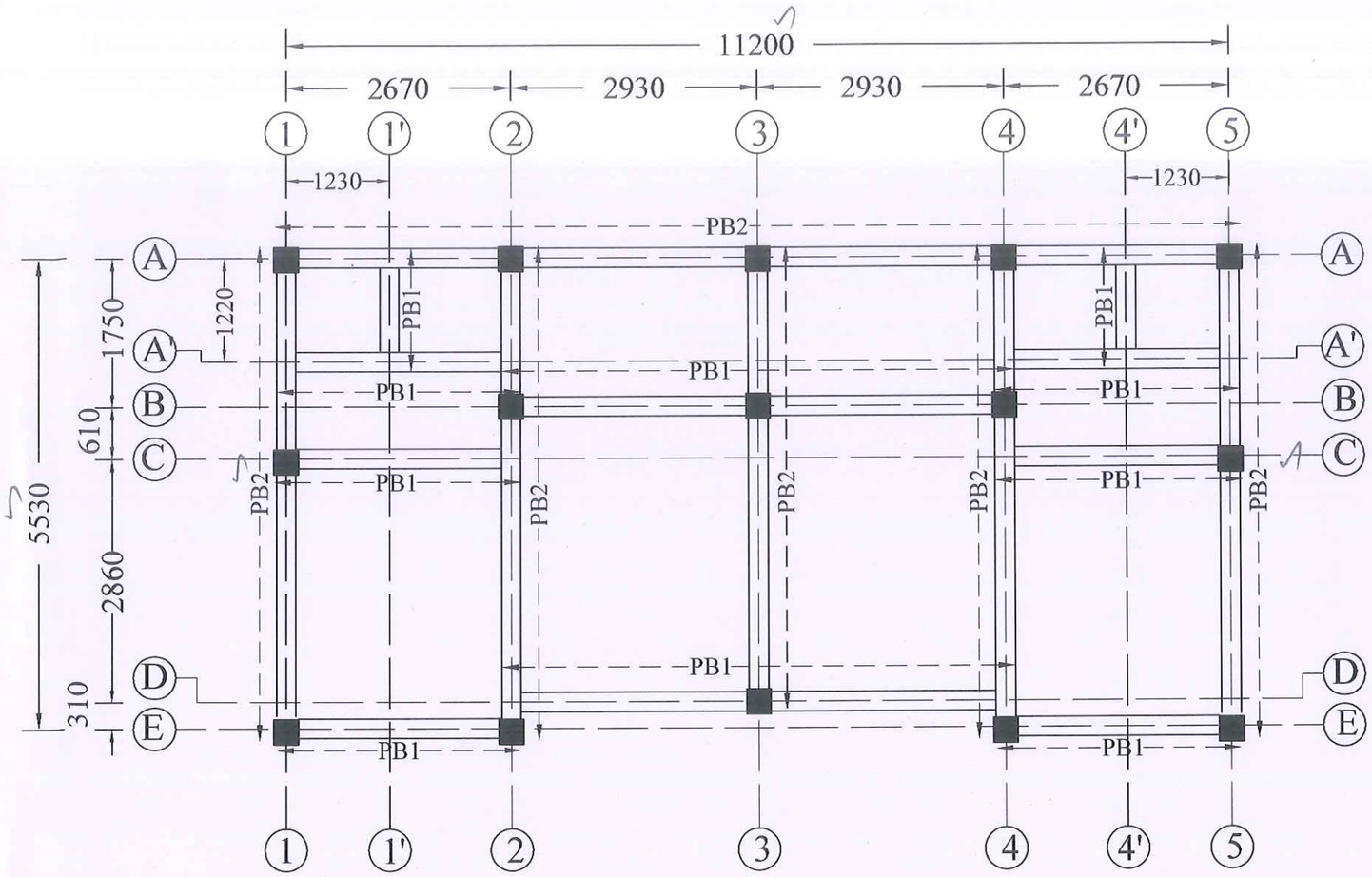
DWG.NO.: TNSCB / POTTALKALAM PH - I / 03

REVISION NO.:

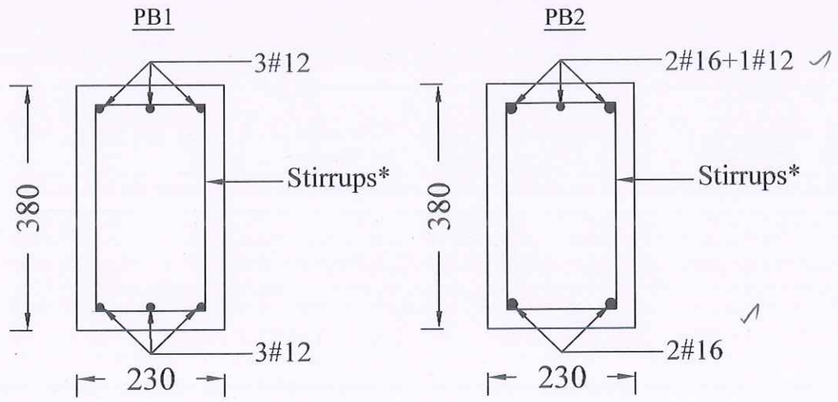
Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**Sd.xxx 07/07/21.** **SE - PMU**
Sd.xxxxx. **SE -Madurai**	**Sd.xxxxx.** **Chief Engineer-Madurai**

STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU SLUM CLEARANCE BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

PLINTH BEAM LAYOUT



PLINTH BEAM DETAILS



NOTE:
* 2 Legged # 8 mm stirrups at 100 mm c/c for 900 mm length on all sides near Beam - Column junctions and the rest at 120 mm c/c.

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EXECUTIVE ENGINEER
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU SLUM CLEARANCE BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

NOTE :
1. All the dimensions are in mm unless noted otherwise.
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STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 504 TENEMENTS (TWIN HOUSES) AT POTTALKALAM PHASE - I IN THENI DISTRICT UNDER PMAY(U) - HFA(AHP) SCHEME.

TITLE:
PLINTH BEAM LAYOUT & DETAILS.

TYPE DESIGN NO.: 37/2018

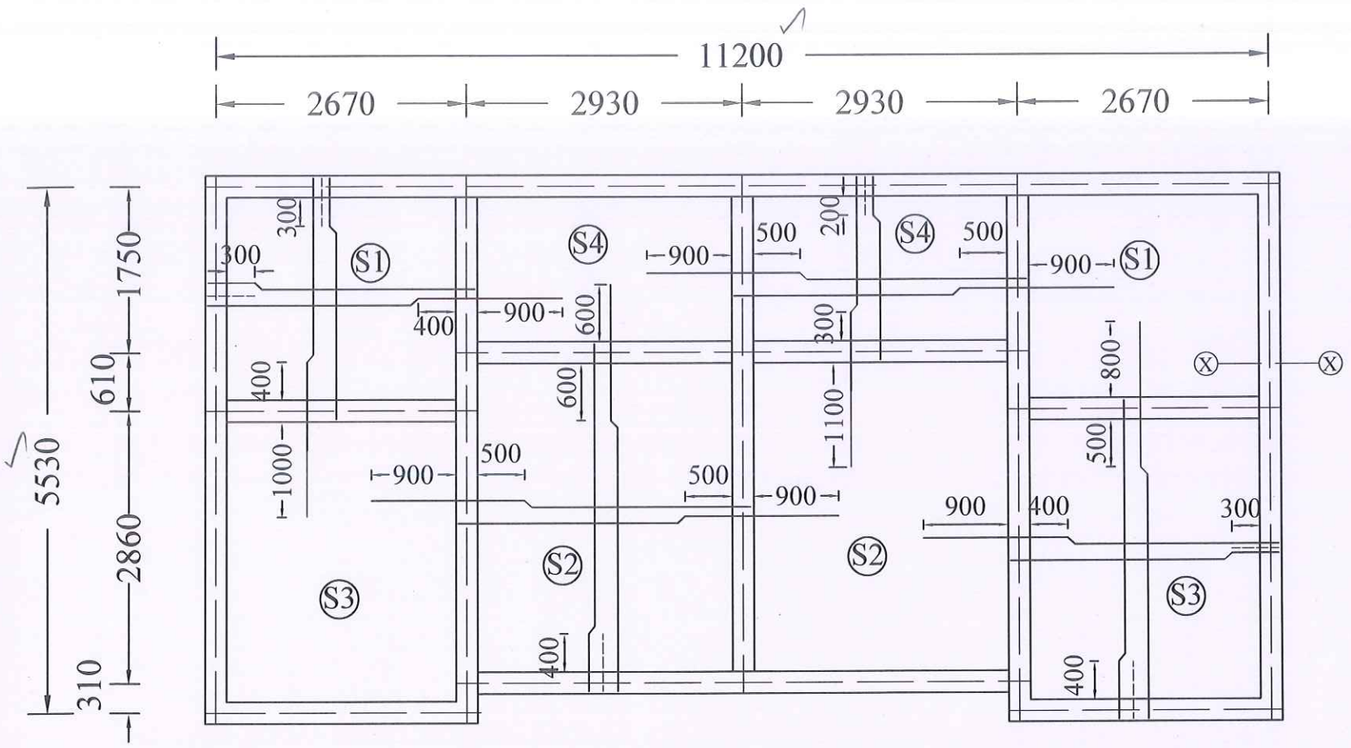
DWG.NO.: TNSCB / POTTALKALAM PH - I / 04

REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**Sd.xxx 07/07/21.** **SE - PMU**
Sd.xxxxx. **SE -Madurai**	**Sd.xxxxx.** **Chief Engineer-Madurai**

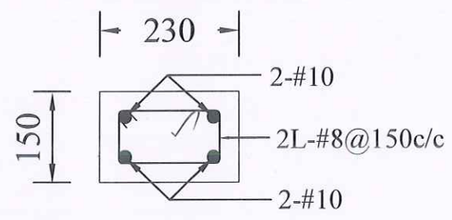
STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU SLUM CLEARANCE BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

ROOF SLAB DETAILS

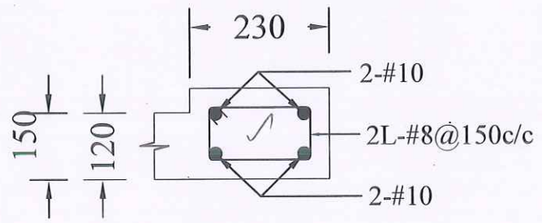


1.ALL SLAB REINFORCEMENT ARE #8@180mm c/c

CROSS SECTION @ XX
(LINTEL BAND)



CROSS SECTION @ XX
(ROOF BAND)



Note: Continuous lintel and Roof band has been provided all round as this structure falls in zone-III area

NOTE:

1. All the Dimensions are in mm.
2. M25 Concrete and Fe500D grade steel shall be adopted.
3. Slab Thickness is 120mm.
4. Clear cover to slab is 25mm.
5. Crank point distances are as shown.
6. "-------" denotes extra rods to be provided at top.

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8/7/21
EXECUTIVE ENGINEER
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU SLUM CLEARANCE BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.
8/7/21

STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 504 TENEMENTS (TWIN HOUSES) AT POTTALKALAM PHASE - I IN THENI DISTRICT UNDER PMAY(U) - HFA(AHP) SCHEME.

TITLE:
ROOF SLAB DETAILS.

TYPE DESIGN NO.: 37/2018

DWG.NO.: TNSCB / POTTALKALAM PH - I / 05

REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**Sd.xxx 07/07/21.** **SE - PMU**
Sd.xxxxx. **SE -Madurai**	**Sd.xxxxx.** **Chief Engineer-Madurai**

STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU SLUM CLEARANCE BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

SEISMIC STRENGTHENING ARRANGEMENTS

Category of the building - D: strengthening arrangements as per Cl: 8.4 of IS 4326:2013 (Table-5)

(a) - Masonry mortar 1:5 (Cement Sand Mortar)

(b) - Lintel band as shown in NO.: TNSCB / POTTALKALAM PH - I / 05

(c) - Roof band as shown in NO.:TNSCB / POTTALKALAM PH - I / 05

(d) - Vertical Steel at corners and junction of walls as per fig.12 of IS 4326:2013.

(i) The Vertical reinforcement shall be properly embedded in the plinth masonry of foundations and roof slab or roof band so as to develop its tensile strength in bond. It shall be passing through the lintel bands and floor slabs or floor level bands.

(ii) The 10mm vertical bars will be covered with concrete M25 or mortar 1:3 grade in suitably created pockets around the bars. This will ensure their safety from corrosion and good bond with masonry.

(e) - Vertical Steel at jambs of openings as per fig.8 of IS 4326:2013.

(i) The Vertical reinforcement at jambs of window and door openings shall be provided as per Table 7. It may start from foundation of floor and terminate in lintel band.

(g) - Plinth band as shown in NO.: TNSCB / POTTALKALAM PH - I / 04

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8/7/21

EXECUTIVE ENGINEER
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU SLUM CLEARANCE BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

8/7/21

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STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 504 TENEMENTS (TWIN HOUSES) AT POTTALKALAM PHASE - I IN THENI DISTRICT UNDER PMAY(U) - HFA(AHP) SCHEME.

TITLE:
SEISMIC STRENGTHENING ARRANGEMENTS.

TYPE DESIGN NO.: 37/2018

DWG.NO.: TNSCB / POTTALKALAM PH - I / 06

REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**Sd.xxx 07/07/21.** **SE - PMU**
Sd.xxxxx. **SE -Madurai**	**Sd.xxxxx.** **Chief Engineer-Madurai**

STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU SLUM CLEARANCE BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.