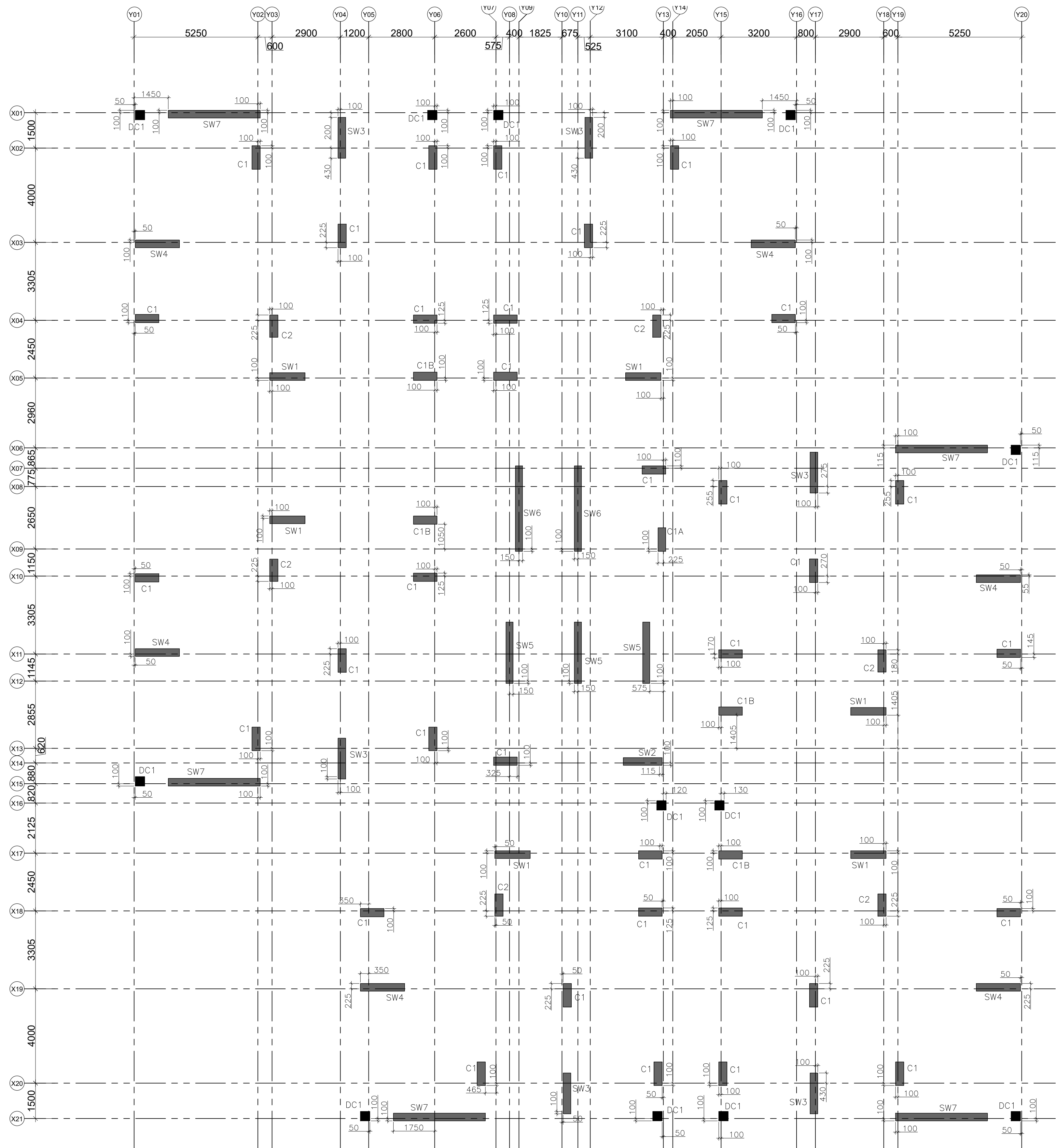
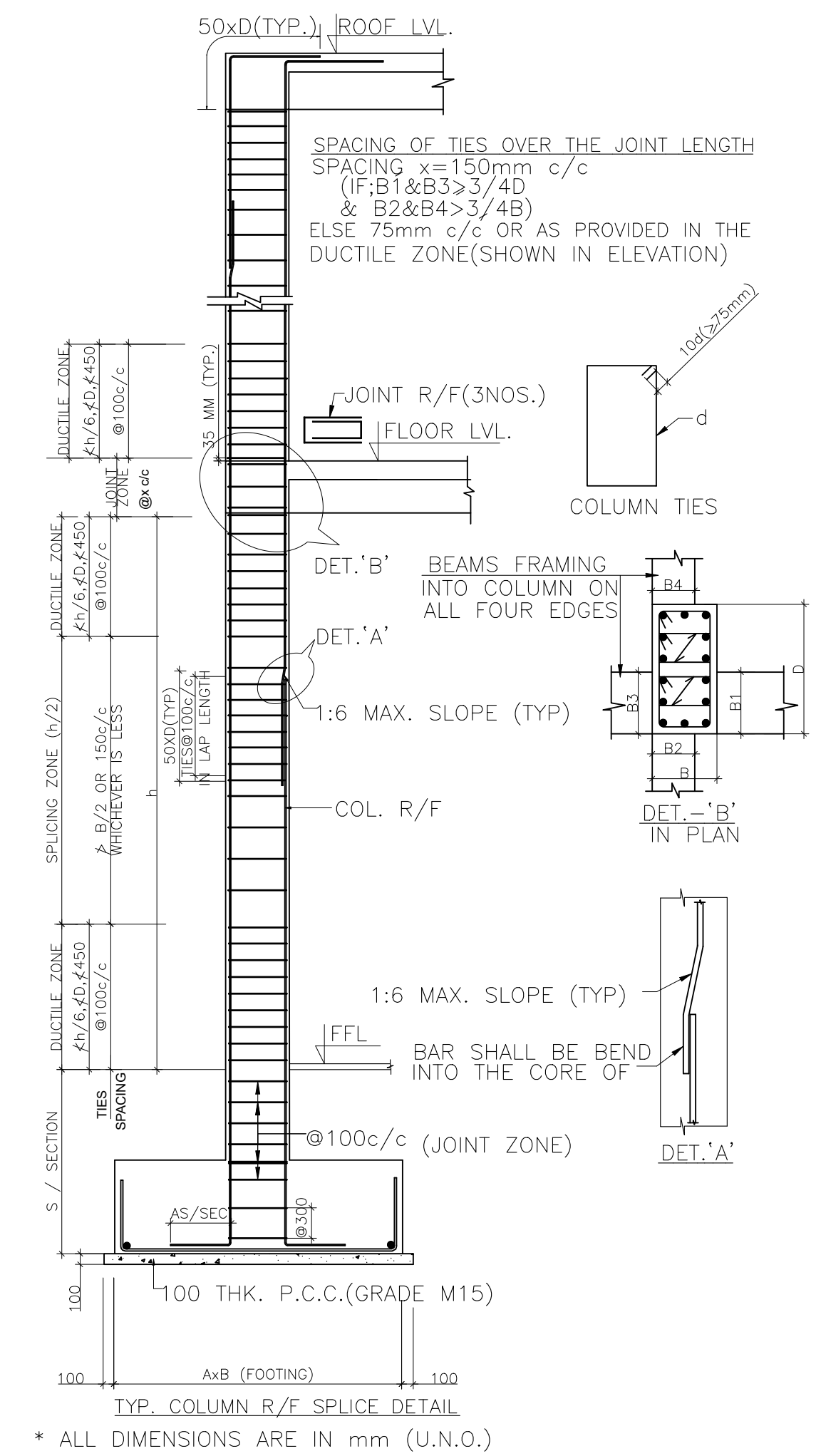


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DRG. No. NPCL-KAGA-WD-ST-DSP-01



COLUMN LAYOUT PLAN  
RAFT FOUNDATION TO STILT FLOOR LVL.



COLUMN REINFORCEMENT SCHEDULE

TIES	
FOUND. TO GROUND FLOOR	REINF.:- 08-20 $\phi$ (b) TIES:- OUTER 12 $\phi$ @100c/c INNER 08 $\phi$ @100c/c
CONCRETE GRADE M40	
LEVEL	DC1(400x400)

- ALL DIMENSIONS ARE IN MILLIMETERS.
- DRAWINGS SHALL NOT BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
- CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCY BEFORE EXECUTION OF WORK, TO THE CONSULTANTS.
- THE STRUCTURE IS DESIGNED CONSIDERING ABOVE INDICATED CONCRETE & REINFORCING STEEL GRID. IT IS CONTRACTORS RESPONSIBILITY TO ACHIEVE THE DESIRE STRENGTH BY STANDARD DESIGN MIX.
- ALL DIMENSIONS /LEVELS & CUT OUT CHECK AS PER ARCHITECTURAL & SERVICES DRG.
- CONC.MIX.
  - FOUNDATION:- M35
  - COLUMN:- AS/COLUMN SCHEDULE
  - BEAM & SLAB:- M30
  - OVERHEAD TANK:- M30
- SLAB STEEL EXTEND .3xLENGTH OF PANEL FROM THE FACE OF BEAM.
- ALL RCC WORKS SHOULD BE CARRIED OUT AS PER LAYER SHALL BE AS FOLLOWS:
  - RAFT BOTTOM :60MM
  - RAFT TOP/SIDES :50MM
  - COLUMNS, PEDESTALS :40MM
  - BEAMS :30MM OR DIA OF BAR
  - SLABS :30MM OR DIA OF BAR WHICHEVER IS MORE :30MM
- RETAIN. WALL
- REINFORCEMENT STEEL SHALL BE HIGH YIELD STRENGTH DEFORMED BARS(8) CONFORMING TO IS:1786 Grade Fe 550D
- NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED AT ANY SECTION.
- STRUCTURAL & ARCHITECTURAL DRAWINGS SHOULD BE FOLLOWED IN RELATION TO EACHOTHER & ANY AMBIGUITY IF FOUND SHOULD BE REPORTED IN WRITING BEFORE EXECUTION.
- STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR CENTRING, CURING, FABRICATION, WELDING, MISUNDERSTANDING OF DRGS. & QUALITY OF MATERIALS.
- PROVIDE DOWELS FOR ANY ARCHITECTURAL FEATURES NOT SHOWN IN THIS DRAWING AS PER ARCHITECTURAL DRAWINGS.
- STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR ANY STRUCTURAL PROBLEM/FAILURE ARISING DUE TO ANY UNAUTHORIZED DRILLING, CUTTING, BREAKING ETC. IN ANY RCC MEMBER FOR ANY PURPOSE WHATSOEVER (AC PIPING, ELECTRICAL, FIRE, PLUMBING ETC.)
- THIS DRG. IS VALID & DESIGN FOR S+12TH STOREY BUILDING ONLY.
- FOLLOW THIS DRG. WITH RESPECT TO OTHER DRG.
- USE COUPLERS FOR OVERLAPPING MORE THAN 20MM DIA. BAR.




**PROFESSOR**  
Department of Civil Engineering  
Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005



**ASSISTANT PROFESSOR**  
Department of Architecture,  
Planning and Design  
Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005

RO	05.02.2026	ISSUED FOR TENDER
REV.	DATE	REVISION NOTE



**NUCLEAR POWER CORPORATION OF INDIA LIMITED**  
( A GOVERNMENT OF INDIA ENTERPRISE )

REVIEWED:	APPROVED:
NAME:	NAME:
DATE:	DATE:

DRAWING NO. (NPCIL INTERNAL DWG. NO.) KAIGA-1-6/91214/5001/ST/R0	REVISION NO. R0
---------------------------------------------------------------------	--------------------

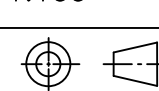
ARCHITECT:

**VYOM**  
ARCHITECTS & ENGINEERS  
E-147, OKHLA PHASE-3, NEW DELHI 110020.  
T: +91 11 2691 0018 / 0019  
E: INFO@VYOM.IN W: WWW.VYOM.IN

TITLE :-

**TYPE-D SPECIAL  
COLUMN LAYOUT PLAN**

DES'D. DATE	DR'N. DATE	BS 05/02/2026	REV'D. DATE	BP 05/02/2026
DES. CHK'D. DATE	DRG. CHK'D. DATE	SM 05/02/2026	APP'D. DATE	VB 05/02/2026

PROJECT	KAIGA-5&6 TOWNSHIP	SCALE	1:100
PROJECTION			

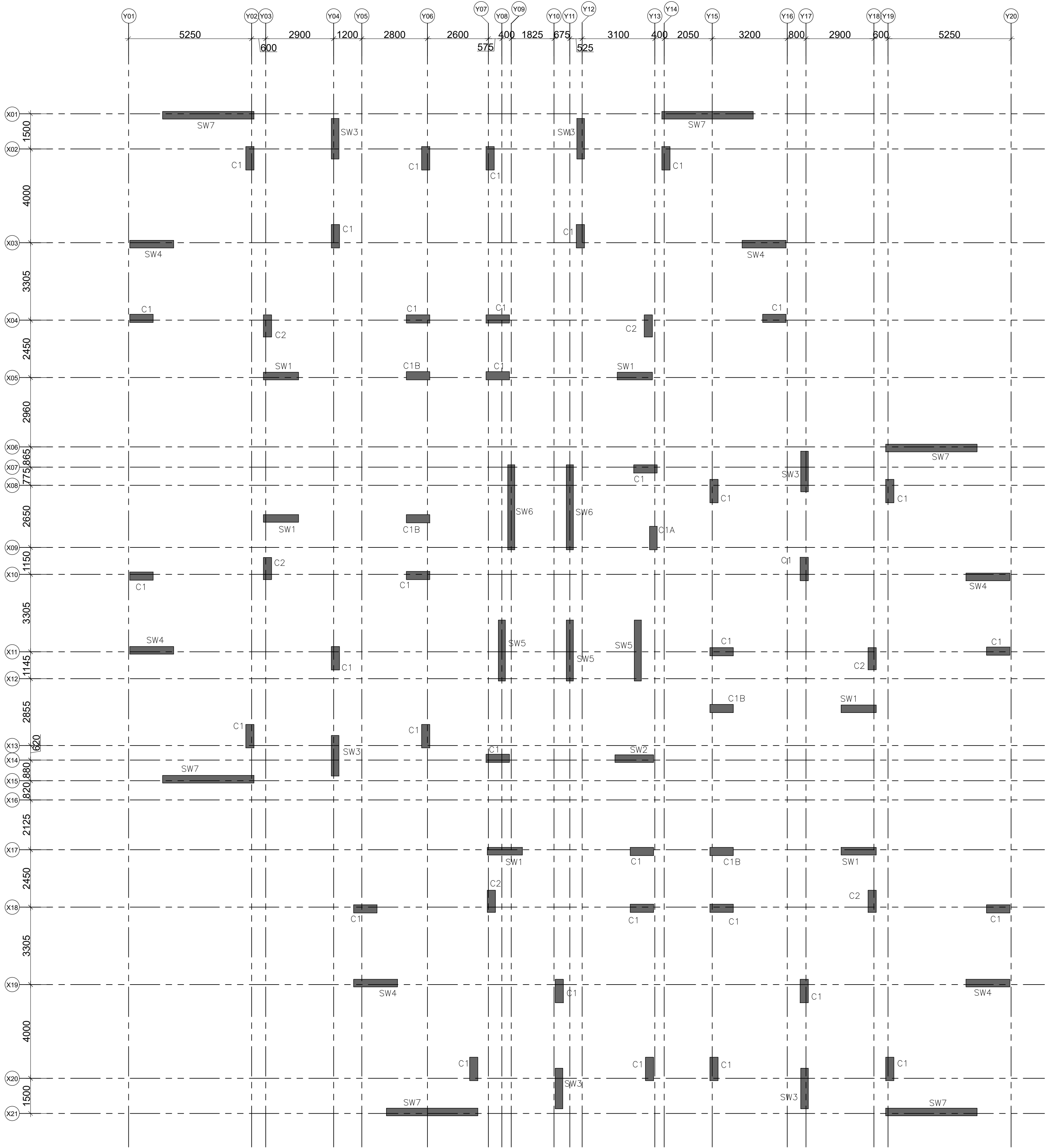
DRG. No. NPCL-KAGA-WD-ST-DSP-01	REV. No. R0
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FLOPPY/CD No.	FILE NAME: TYPE-D SPECIAL
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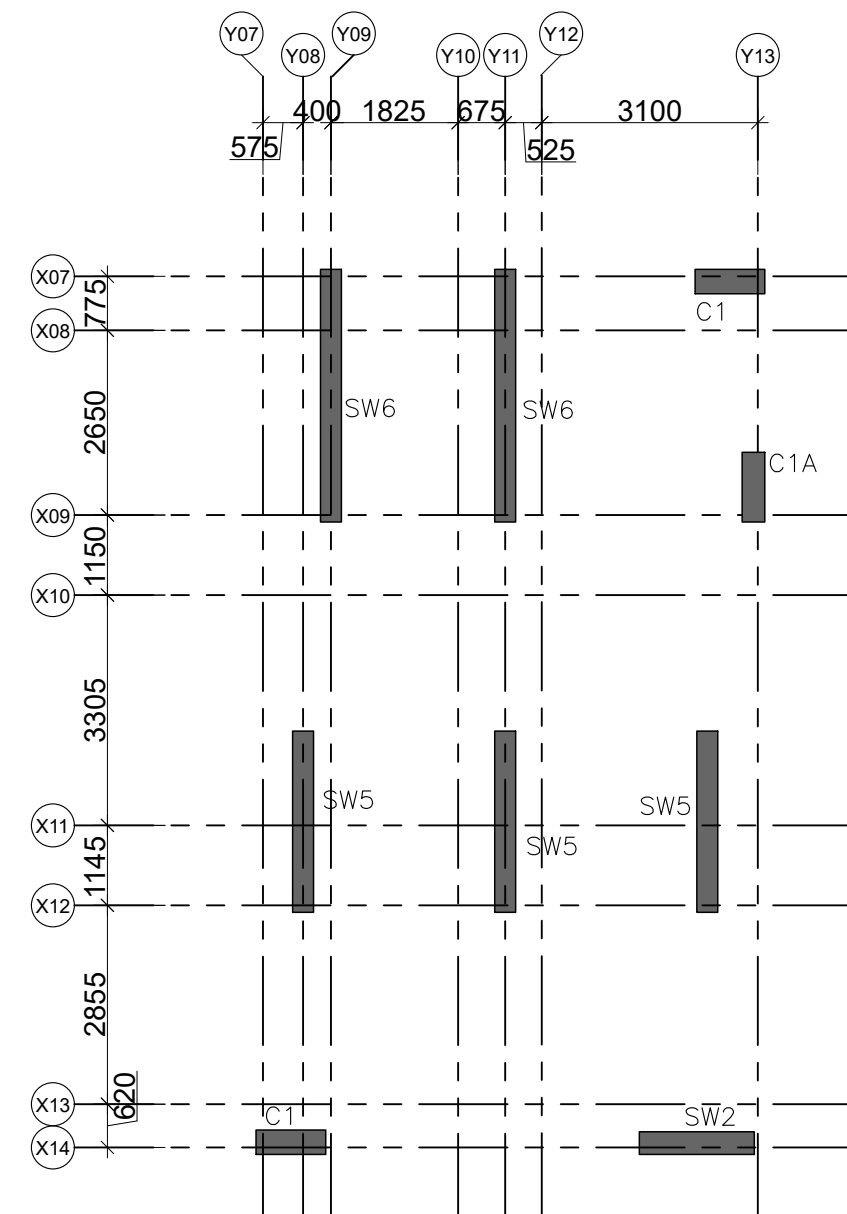


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DRG. No. NPCL-KAGA-WD-ST-DSP-01a



COLUMN LAYOUT PLAN  
STILT FLOOR LVL. TO TERRACE FLOOR LVL.



COLUMN LAYOUT PLAN  
TERRACE FLOOR LVL. TO MUMTY FLOOR LVL.

- ALL DIMENSIONS ARE IN MILLIMETERS.
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- ALL DIMENSIONS /LEVELS & CUT OUT CHECK AS PER ARCHITECTURAL & SERVICES DRG.
- CONC.MIX.
  - FOUNDATION:- M35
  - COLUMN:- AS/COLUMN SCHEDULE
  - BEAM & SLAB:- M30
  - OVERHEAD TANK:- M30
- SLAB STEEL EXTEND .3xLENGTH OF PANEL FROM THE FACE OF BEAM.
- ALL RCC WORKS SHOULD BE CARRIED OUT AS PER LAYER SHALL BE AS FOLLOWS:
  - RAFT BOTTOM :60MM
  - RAFT TOP/SIDES :50MM
  - COLUMNS, PEDESTALS :40MM
  - BEAMS :30MM OR DIA OF BAR
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  - RETAIN. WALL :30MM
- REINFORCEMENT STEEL SHALL BE HIGH YIELD STRENGTH DEFORMED BARS(#) CONFORMING TO IS:1786 Grade Fe 550D.
- NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED AT ANY SECTION.
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- FOLLOW THIS DRG. WITH RESPECT TO OTHER DRG.
- USE COUPLERS FOR OVERLAPPING MORE THAN 20MM DIA. BAR.

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Department of Civil Engineering  
Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005

**ASSISTANT PROFESSOR**  
Department of Architecture,  
Planning and Design  
Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005

RO	05.02.2026	ISSUED FOR TENDER
REV.	DATE	REVISION NOTE

 **NUCLEAR POWER CORPORATION OF INDIA LIMITED**  
( A GOVERNMENT OF INDIA ENTERPRISE )

REVIEWED:	APPROVED:
NAME:	NAME:
DATE:	DATE:

DRAWING NO. (NPCIL INTERNAL DWG. NO.) KAIGA-1-6/91214/5002/ST/RO	REVISION NO. RO
---------------------------------------------------------------------	--------------------

ARCHITECT:  
 **VYOM**  
ARCHITECTS & ENGINEERS  
E-147, OKHLA PHASE-3, NEW DELHI 110020.  
T: +91 11 2691 0018 / 0019  
E: INFO@VYOM.IN WWW.VYOM.IN

TITLE :- TYPE-D SPECIAL  
COLUMN & SHEAR WALL SCHEDULE DETAILS.

DES'D. DATE	DR'N. DATE	BS 05/02/2026	REV'D. DATE	BP 05/02/2026
DES. CHK'D. DATE	DRG. CHK'D. DATE	SM 05/02/2026	APP'D. DATE	VB 05/02/2026

PROJECT	KAIGA-5&6 TOWNSHIP	SCALE	1:150
		PROJECTION	

DRG. No. NPCL-KAGA-WD-ST-DSP-01a	REV. No. RO
FLOPPY/CD No.	FILE NAME: TYPE-D SPECIAL

DRG. TO BE READ IN CONJUNCTION WITH DCN/FCN/ECON. IF ANY.



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DRG. No. NPCL-KAGA-WD-ST-DSP-01b

A1

D

C

B

A

F

G

H

LEVEL	COLUMN SIZE	FOUND. TO 2nd FLOOR	COLUMN SIZE	2nd FLOOR TO 4th FLOOR	2nd FLOOR TO 4th FLOOR	COLUMN SIZE	4th FLOOR TO 6th FLOOR	4th FLOOR TO 6th FLOOR	COLUMN SIZE	6th FLOOR TO 8th FLOOR	6th FLOOR TO 8th FLOOR	COLUMN SIZE	8th FLOOR TO 10th FLOOR	8th FLOOR TO 10th FLOOR	COLUMN SIZE	10th FLOOR TO 12th FLOOR	10th FLOOR TO 12th FLOOR	COLUMN SIZE	12th FLOOR TO TOP LEVEL	12th FLOOR TO TOP LEVEL	TIES
SW1		CONCRETE GRADE M40 REINF.:— 16-200(b) TIES:— OUTER-(A) (A)08@100c/c INNER-(B) (B)08@100c/c OUTER-(C) (C)08@100c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M35 REINF.:— 16-200(b) TIES:— OUTER-(A) (A)08@90c/c INNER-(B) (B)08@100c/c OUTER-(C) (C)08@100c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M35 REINF.:— 08-200(b) TIES:— OUTER-(A) (A)08@90c/c INNER-(B) (B)08@90c/c OUTER-(C) (C)08@90c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M30 REINF.:— 08-200(b) TIES:— OUTER-(A) (A)08@90c/c INNER-(B) (B)08@90c/c OUTER-(C) (C)08@90c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M30 REINF.:— 08-200(b) TIES:— OUTER-(A) (A)08@90c/c INNER-(B) (B)08@90c/c OUTER-(C) (C)08@90c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M30 REINF.:— 08-200(b) TIES:— OUTER-(A) (A)08@90c/c INNER-(B) (B)08@90c/c OUTER-(C) (C)08@90c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M30 REINF.:— 08-200(b) TIES:— OUTER-(A) (A)08@90c/c INNER-(B) (B)08@90c/c OUTER-(C) (C)08@90c/c INNER-(D) (D)08@600c/c							
SW2		CONCRETE GRADE M40 REINF.:— 16-200(b) TIES:— OUTER-(A) (A)10@90c/c INNER-(B) (B)08@90c/c OUTER-(C) (C)08@90c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M35 REINF.:— 16-200(b) TIES:— OUTER-(A) (A)10@90c/c INNER-(B) (B)08@90c/c OUTER-(C) (C)08@90c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M35 REINF.:— 08-200(b) TIES:— OUTER-(A) (A)10@90c/c INNER-(B) (B)08@90c/c OUTER-(C) (C)08@90c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M30 REINF.:— 08-200(b) TIES:— OUTER-(A) (A)10@90c/c INNER-(B) (B)08@90c/c OUTER-(C) (C)08@90c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M30 REINF.:— 08-200(b) TIES:— OUTER-(A) (A)10@90c/c INNER-(B) (B)08@90c/c OUTER-(C) (C)08@90c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M30 REINF.:— 08-200(b) TIES:— OUTER-(A) (A)10@90c/c INNER-(B) (B)08@90c/c OUTER-(C) (C)08@90c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M30 REINF.:— 08-200(b) TIES:— OUTER-(A) (A)10@90c/c INNER-(B) (B)08@90c/c OUTER-(C) (C)08@90c/c INNER-(D) (D)08@600c/c							
SW3		CONCRETE GRADE M40 REINF.:— 24-250(a) TIES:— OUTER-(A) (A)10@100c/c INNER-(B) (B)08@100c/c OUTER-(C) (C)08@100c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M35 REINF.:— 16-250(a) TIES:— OUTER-(A) (A)10@100c/c INNER-(B) (B)08@100c/c OUTER-(C) (C)08@100c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M35 REINF.:— 08-250(a) TIES:— OUTER-(A) (A)10@100c/c INNER-(B) (B)08@100c/c OUTER-(C) (C)08@100c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M30 REINF.:— 16-200(b) TIES:— OUTER-(A) (A)08@100c/c INNER-(B) (B)08@100c/c OUTER-(C) (C)08@100c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M30 REINF.:— 16-200(b) TIES:— OUTER-(A) (A)08@90c/c INNER-(B) (B)08@90c/c OUTER-(C) (C)08@90c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M30 REINF.:— 08-200(b) TIES:— OUTER-(A) (A)08@90c/c INNER-(B) (B)08@90c/c OUTER-(C) (C)08@90c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M30 REINF.:— 24-160(c) TIES:— OUTER-(A) (A)08@100c/c INNER-(B) (B)08@100c/c OUTER-(C) (C)08@100c/c INNER-(D) (D)08@600c/c							
SW4		CONCRETE GRADE M40 REINF.:— 24-200(b) TIES:— OUTER-(A) (A)10@100c/c INNER-(B) (B)08@100c/c OUTER-(C) (C)08@100c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M35 REINF.:— 16-200(b) TIES:— OUTER-(A) (A)10@90c/c INNER-(B) (B)08@90c/c OUTER-(C) (C)08@90c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M35 REINF.:— 08-200(b) TIES:— OUTER-(A) (A)10@90c/c INNER-(B) (B)08@90c/c OUTER-(C) (C)08@90c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M30 REINF.:— 08-200(b) TIES:— OUTER-(A) (A)10@90c/c INNER-(B) (B)08@90c/c OUTER-(C) (C)08@90c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M30 REINF.:— 08-200(b) TIES:— OUTER-(A) (A)10@90c/c INNER-(B) (B)08@90c/c OUTER-(C) (C)08@90c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M30 REINF.:— 08-200(b) TIES:— OUTER-(A) (A)10@90c/c INNER-(B) (B)08@90c/c OUTER-(C) (C)08@90c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M30 REINF.:— 08-200(b) TIES:— OUTER-(A) (A)10@90c/c INNER-(B) (B)08@90c/c OUTER-(C) (C)08@90c/c INNER-(D) (D)08@600c/c							
SW5		CONCRETE GRADE M40 REINF.:— 08-320(a) TIES:— OUTER-(A) (A)10@100c/c INNER-(B) (B)08@100c/c OUTER-(C) (C)08@100c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M35 REINF.:— 24-250(a) TIES:— OUTER-(A) (A)10@100c/c INNER-(B) (B)08@100c/c OUTER-(C) (C)08@100c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M35 REINF.:— 16-250(a) TIES:— OUTER-(A) (A)10@90c/c INNER-(B) (B)08@90c/c OUTER-(C) (C)08@90c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M30 REINF.:— 08-250(a) TIES:— OUTER-(A) (A)10@90c/c INNER-(B) (B)08@90c/c OUTER-(C) (C)08@90c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M30 REINF.:— 24-200(b) TIES:— OUTER-(A) (A)10@90c/c INNER-(B) (B)08@90c/c OUTER-(C) (C)08@90c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M30 REINF.:— 16-200(b) TIES:— OUTER-(A) (A)10@90c/c INNER-(B) (B)08@90c/c OUTER-(C) (C)08@90c/c INNER-(D) (D)08@600c/c		CONCRETE GRADE M30 REINF.:— 16-200(b) TIES:— OUTER-(A) (A)10@90c/c INNER-(B) (B)08@90c/c OUTER-(C) (C)08@90c/c INNER-(D) (D)08@600c/c							

X = VERTICAL R/F. AS PER TYPICAL SHEAR WALL DETAIL IN SHEET - 1d

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- CONC.MIX.
  - FOUNDATION:— M35
  - COLUMN:— AS/COLUMN SCHEDULE
  - BEAM & SLAB:— M30
  - OVERHEAD TANK:— M30
- SLAB STEEL EXTEND .3xLENGTH OF PANEL FROM THE FACE OF BEAM.
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- FOLLOW THIS DRG. WITH RESPECT TO OTHER DRG.
- USE COUPLERS FOR OVERLAPPING MORE THAN 20MM DIA. BAR.

  
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**ASSISTANT PROFESSOR**  
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Planning and Design  
Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005



**NUCLEAR POWER CORPORATION OF INDIA LIMITED**  
( A GOVERNMENT OF INDIA ENTERPRISE )

REVIEWED:	APPROVED:
NAME:	NAME:
DATE:	DATE:

DRAWING NO. (NPCIL INTERNAL DWG. NO.) KAIGA-1-6/91214/5003/ST/R0	REVISION NO. R0
---------------------------------------------------------------------	--------------------

ARCHITECT:

**VYOM**  
ARCHITECTS & ENGINEERS  
E-147, OKHLA PHASE-3, NEW DELHI 110020.  
T: +91 11 2691 0018 / 0019  
E: INFO@VYOM.IN W: WWW.VYOM.IN

TITLE :- TYPE-D SPECIAL COLUMN & SHEAR WALL SCHEDULE DETAILS.

DES'D. DATE	DR'N. DATE	BS 05/02/2026	REV'D. DATE	BP 05/02/2026
DES. CHK'D. DATE	DRG. CHK'D. DATE	SM 05/02/2026	APP'D. DATE	VB 05/02/2026

PROJECT	KAIGA-5&6 TOWNSHIP	SCALE	1:50
PROJECTION			

DRG. No. NPCL-KAGA-WD-ST-DSP-01b	REV. No. R0
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FLOPPY/CD No. FILE NAME: TYPE-D SPECIAL

DRG. TO BE READ IN CONJUNCTION WITH DCN/FCN/ECN, IF ANY.

1



THIS DESIGN AND DRAWING IS THE PROPERTY OF THE NUCLEAR POWER CORPORATION. IT MUST BE RETURNED WITH QUOTATION OR UPON DELIVERY OF MATERIAL / EQUIPMENT TO THE ORDERING OFFICE. EXCEPT BY PERMISSION OF THE OWNER.

DRG. No. NPCL-KAGA-WD-ST-DSP-01c

LEVEL	COLUMN SIZE	FOUND. TO 2nd FLOOR	COLUMN SIZE	2nd FLOOR TO 4th FLOOR	COLUMN SIZE	4th FLOOR TO 6th FLOOR	COLUMN SIZE	6th FLOOR TO 8th FLOOR	COLUMN SIZE	8th FLOOR TO 10th FLOOR	COLUMN SIZE	10th FLOOR TO 12th FLOOR	COLUMN SIZE	12th FLOOR TO TOP LEVEL	TIES
SW6	300	REINF.: 32-320(A) 24-250(a) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c OUTER-(C) (C)0800100c/c INNER-(D) (D)0800600c/c	300	REINF.: 16-320(A) 40-250(a) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c OUTER-(C) (C)0800100c/c INNER-(D) (D)0800600c/c	300	REINF.: 08-320(A) 32-250(a) 16-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c OUTER-(C) (C)0800100c/c INNER-(D) (D)0800600c/c	300	REINF.: 28-250(a) 28-200(b) 12-160(c) TIES:- OUTER-(A) (A)080090c/c INNER-(B) (B)080090c/c OUTER-(C) (C)080090c/c INNER-(D) (D)0800600c/c	300	REINF.: 16-250(a) 28-200(b) 12-160(c) TIES:- OUTER-(A) (A)080090c/c INNER-(B) (B)080090c/c OUTER-(C) (C)080090c/c INNER-(D) (D)0800600c/c	300	REINF.: 08-250(a) 24-200(b) 16-160(c) TIES:- OUTER-(A) (A)080090c/c INNER-(B) (B)080090c/c OUTER-(C) (C)080090c/c INNER-(D) (D)0800600c/c	300	REINF.: 20-200(b) 36-160(d) TIES:- OUTER-(A) (A)080090c/c INNER-(B) (B)080090c/c OUTER-(C) (C)080090c/c INNER-(D) (D)0800600c/c	TIES
SW7	325	REINF.: 32-320(A) 16-250(a) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c OUTER-(C) (C)0800100c/c INNER-(D) (D)0800600c/c	325	REINF.: 16-320(A) 32-250(a) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c OUTER-(C) (C)0800100c/c INNER-(D) (D)0800600c/c	325	REINF.: 08-320(A) 24-250(a) 12-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c OUTER-(C) (C)0800100c/c INNER-(D) (D)0800600c/c	325	REINF.: 24-250(a) 12-200(b) 12-160(c) TIES:- OUTER-(A) (A)080090c/c INNER-(B) (B)080090c/c OUTER-(C) (C)080090c/c INNER-(D) (D)0800600c/c	325	REINF.: 16-250(a) 16-200(b) 16-160(c) TIES:- OUTER-(A) (A)080090c/c INNER-(B) (B)080090c/c OUTER-(C) (C)080090c/c INNER-(D) (D)0800600c/c	325	REINF.: 08-250(a) 16-200(b) 16-160(c) TIES:- OUTER-(A) (A)080090c/c INNER-(B) (B)080090c/c OUTER-(C) (C)080090c/c INNER-(D) (D)0800600c/c	325	REINF.: 16-200(b) 32-160(c) TIES:- OUTER-(A) (A)080090c/c INNER-(B) (B)080090c/c OUTER-(C) (C)080090c/c INNER-(D) (D)0800600c/c	TIES
C1	1000	REINF.: 08-250(a) 12-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c	1000	REINF.: 08-250(a) 12-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c	1000	REINF.: 08-250(a) 12-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c	1000	REINF.: 08-250(a) 12-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c	1000	REINF.: 08-250(a) 12-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c	1000	REINF.: 08-250(a) 12-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c	1000	REINF.: 08-250(a) 12-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c	TIES
C1A	1000	REINF.: 08-250(a) 12-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c	1000	REINF.: 08-250(a) 12-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c	1000	REINF.: 08-250(a) 12-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c	1000	REINF.: 08-250(a) 12-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c	1000	REINF.: 08-250(a) 12-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c	1000	REINF.: 08-250(a) 12-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c	1000	REINF.: 08-250(a) 12-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c	TIES
C1B	1000	REINF.: 12-250(a) 08-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c	1000	REINF.: 12-250(a) 08-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c	1000	REINF.: 12-250(a) 08-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c	1000	REINF.: 12-250(a) 08-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c	1000	REINF.: 12-250(a) 08-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c	1000	REINF.: 12-250(a) 08-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c	1000	REINF.: 12-250(a) 08-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c	TIES
C2	945	REINF.: 18-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c	945	REINF.: 18-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c	945	REINF.: 18-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c	945	REINF.: 18-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c	945	REINF.: 18-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c	945	REINF.: 18-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c	945	REINF.: 18-200(b) TIES:- OUTER-(A) (A)1000100c/c INNER-(B) (B)0800100c/c	TIES

X = VERTICAL R/F. AS PER TYPICAL SHEAR WALL DETAIL IN SHEET - 1d

- ALL DIMENSIONS ARE IN MILLIMETERS.
- DRAWINGS SHALL NOT BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
- CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCY BEFORE EXECUTION OF WORK, TO THE CONSULTANTS.
- THE STRUCTURE IS DESIGNED CONSIDERING ABOVE INDICATED CONCRETE & REINFORCING STEEL GRID. IT IS CONTRACTORS RESPONSIBILITY TO ACHIEVE THE DESIRE STRENGTH BY STANDARD DESIGN MIX.
- ALL DIMENSIONS /LEVELS & CUT OUT CHECK AS PER ARCHITECTURAL & SERVICES DRG.
- CONC.MIX.
  - FOUNDATION:- M35
  - COLUMN:- AS/COLUMN SCHEDULE
  - BEAM & SLAB:- M30
  - OVERHEAD TANK:- M30
- SLAB STEEL EXTEND .3xLENGTH OF PANEL FROM THE FACE OF BEAM.
- ALL RCC WORKS SHOULD BE CARRIED OUT AS PER LAYER SHALL BE AS FOLLOWS:
  - RAFT BOTTOM :60MM
  - RAFT TOP/SIDES :50MM
  - COLUMNS, PEDESTALS :40MM
  - BEAMS :30MM OR DIA OF BAR
  - SLABS :30MM OR DIA OF BAR WHICHEVER IS MORE
- REINFORCEMENT STEEL SHALL BE HIGH YIELD STRENGTH DEFORMED BARS(Ø) CONFORMING TO IS:1786 Grade Fe 550D
- NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED AT ANY SECTION.
- STRUCTURAL & ARCHITECTURAL DRAWINGS SHOULD BE FOLLOWED IN RELATION TO EACHOTHER & ANY AMBIGUITY IF FOUND SHOULD BE REPORTED IN WRITING BEFORE EXECUTION.
- STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR CENTRING, CURING, FABRICATION, WELDING, MISUNDERSTANDING OF DRGS. & QUALITY OF MATERIALS.
- PROVIDE DOWELS FOR ANY ARCHITECTURAL FEATURES NOT SHOWN IN THIS DRAWING AS PER ARCHITECTURAL DRAWINGS.
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- THIS DRG. IS VALID & DESIGN FOR S+12TH STOREY BUILDING ONLY.
- FOLLOW THIS DRG. WITH RESPECT TO OTHER DRG.
- USE COUPLERS FOR OVERLAPPING MORE THAN 20MM DIA. BAR.

**PROFESSOR**  
Department of Civil Engineering  
Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005

**ASSISTANT PROFESSOR**  
Department of Architecture,  
Planning and Design  
Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005

RO 05.02.2026 ISSUED FOR TENDER

REV. DATE REVISION NOTE

**NUCLEAR POWER CORPORATION OF INDIA LIMITED**  
( A GOVERNMENT OF INDIA ENTERPRISE )

REVIEWED: APPROVED:

NAME: DATE: NAME: DATE:

DRAWING NO. (NPCL INTERNAL DWG. NO.) KAIGA-1-6/91214/5004/ST/RO REVISION NO. RO

ARCHITECT: **VYOM**  
ARCHITECTS & ENGINEERS  
E-147, OKHLA PHASE-3, NEW DELHI 110020.  
T: +91 11 2691 0018 / 0019  
E: INFO@VYOM.IN W: WWW.VYOM.IN

TITLE :- **TYPE-D SPECIAL TYPICAL SHEAR WALL IN PLAN**

DES'D. DATE DR'N. DATE BS 05/02/2026 REV'D. DATE BP 05/02/2026  
DES. CHK'D. DATE SM 05/02/2026 APP'D. DATE VB 05/02/2026

PROJECT **KAIGA-5&6 TOWNSHIP** SCALE 1:50  
PROJECTION

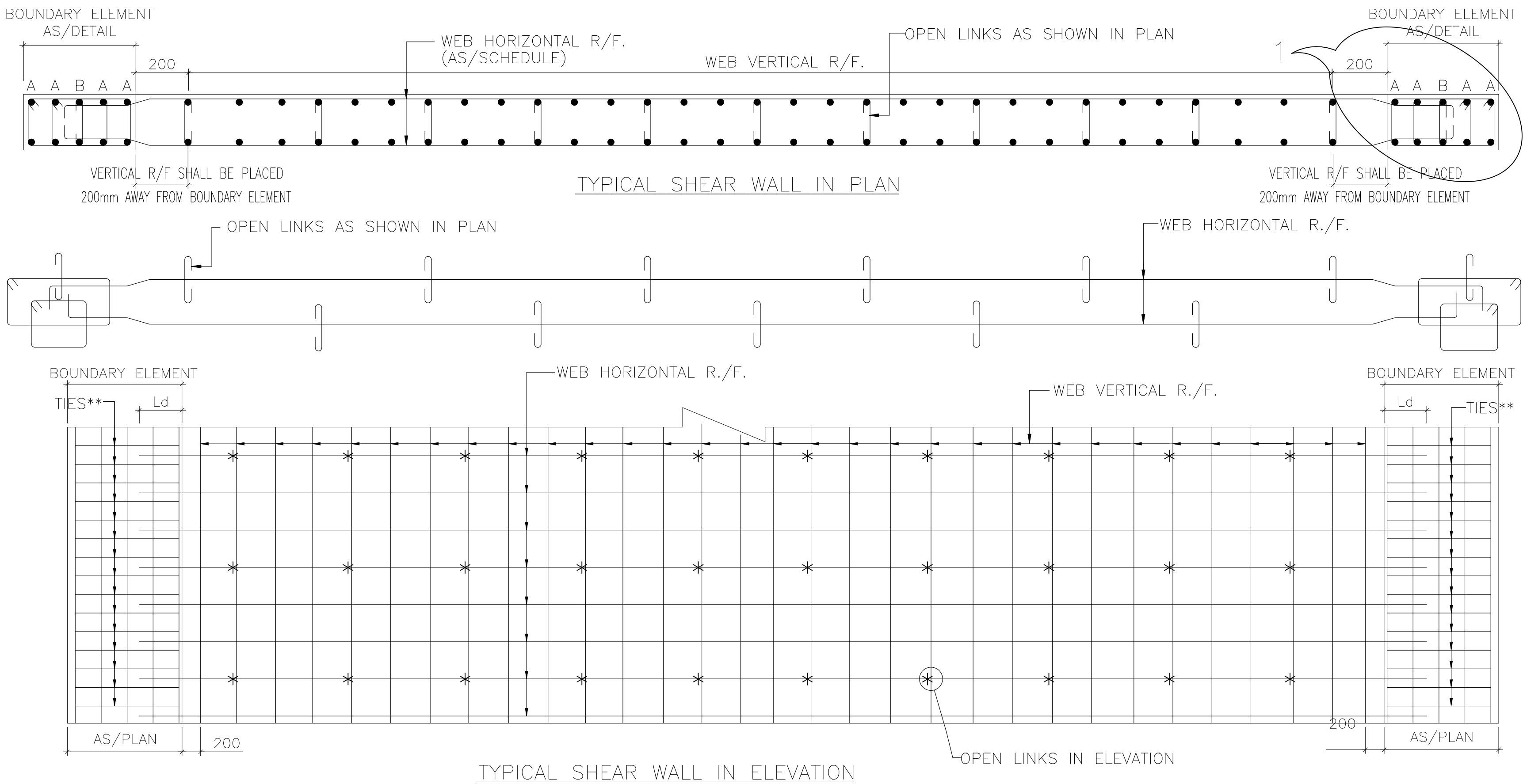
DRG. No. **NPCL-KAGA-WD-ST-DSP-01c** REV. No. RO  
FLOPPY/CD No. FILE NAME: TYPE-D SPECIAL

DRG. TO BE READ IN CONJUNCTION WITH DCM/FCN/ECN, IF ANY.



THIS DESIGN AND DRAWING IS THE PROPERTY OF THE NUCLEAR POWER CORPORATION. IT MUST BE RETURNED WITH QUOTATION OR UPON DELIVERY OF MATERIAL / EQUIPMENT TO THE PROJECT OF THE OWNER. EXCEPT BY PERMISSION OF THE OWNER.

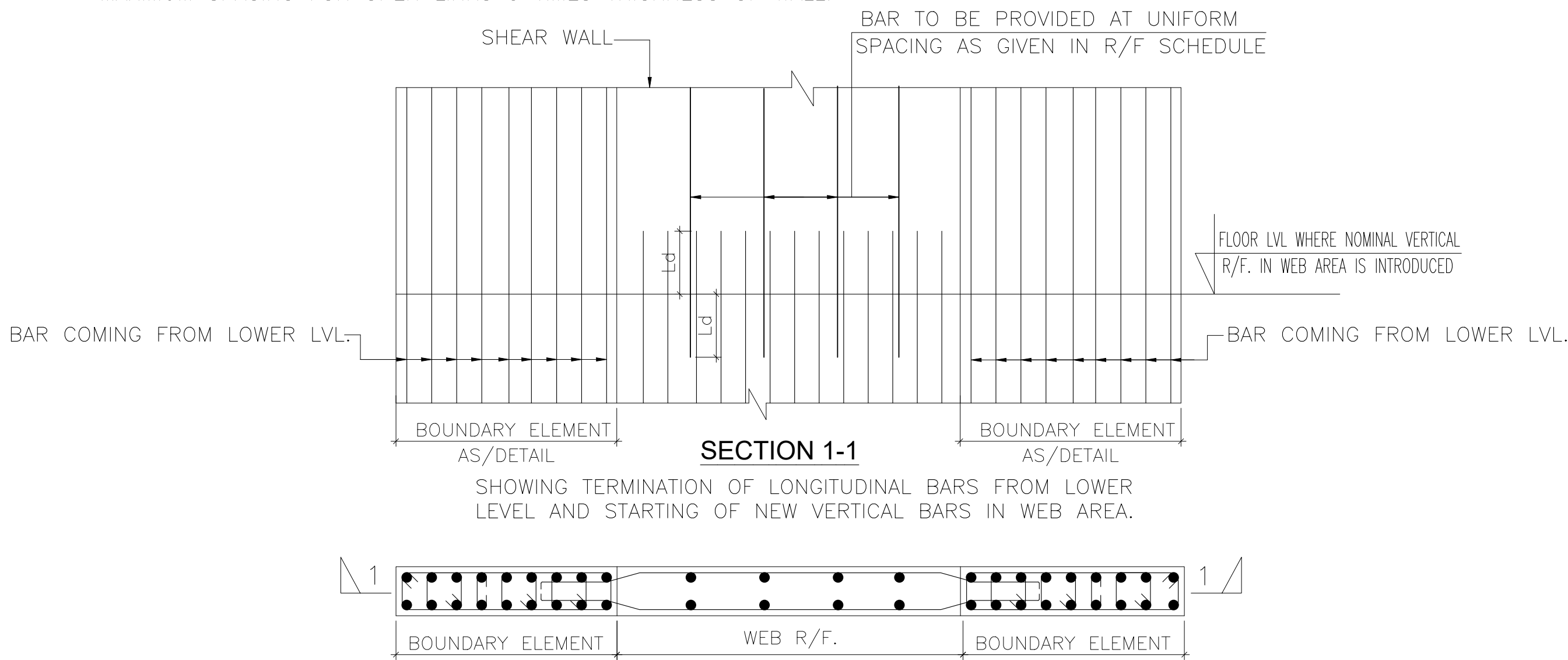
H  
G  
F  
E  
D  
C  
B  
A  
A1



FOR 200/325/350mm THICK WALL SPACING FOR OPEN LINKS SHALL BE 600c/c BOTH DIRECTION(8mm $\Phi$ )  
FOR 450mm THICK WALL SPACING FOR OPEN LINKS SHALL BE 600c/c BOTH DIRECTION(8mm $\Phi$ )

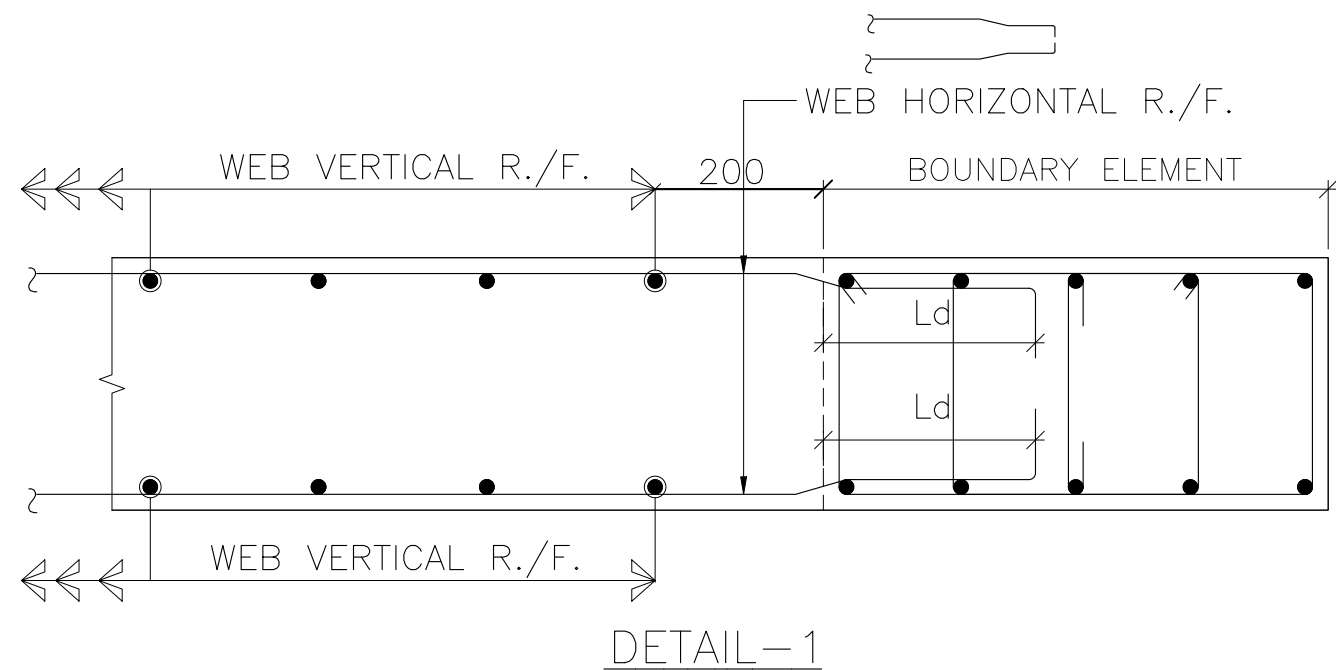
\* MAXIMUM SPACING FOR OPEN LINKS 3 TIMES THICKNESS OF WALL.

\*\* TIES AS SPECIFIED FOR ZONE – A IN TIE SCHEDULE SHALL BE PROVIDED IN COMPLETE FLOOR HEIGHT IN THE BOUNDARY ELEMENT



LEGEND FOR CLEAR COVER

WALL THICK.	CLEAR COVER FROM LATERAL TIES
UPTO 250mm	40mm
FOR 300mm AND ABOVE	40mm



LONGITUDINAL BAR JOGGLE DETAIL FOR SHOWING REDUCTION IN COVER AS PER THICKNESS OF WALL.

TABLE-1 WEB VERTICAL R/F TABLE

VERTICAL WEB R./F. IN SHEAR WALL(U.N.O.)					
SHEAR WALL THICKNESS	200mm.	300mm.	325/350mm.	400mm.	450mm.
R/F	12 $\Phi$ @300c/c	12 $\Phi$ @275c/c	12 $\Phi$ @250c/c	12 $\Phi$ @225c/c	12 $\Phi$ @200c/c

REFERENCE DRAWINGS		DRAWING No.		No. LOCATION		DESCRIPTION REVISIONS		DR'N.	DES'D.	D.CHK'D.	REV'D.	APP'D.

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- ALL DIMENSIONS /LEVELS & CUT OUT CHECK AS PER ARCHITECTURAL & SERVICES DRG.
- CONC.MIX.
  - FOUNDATION:- M35
  - COLUMN:- AS/COLUMN SCHEDULE
  - BEAM & SLAB:- M30
  - OVERHEAD TANK:- M30
- SLAB STEEL EXTEND .3xLENGTH OF PANEL FROM THE FACE OF BEAM.
- ALL RCC WORKS SHOULD BE CARRIED OUT AS PER LAYER SHALL BE AS FOLLOWS:
  - RAFT BOTTOM :60MM
  - RAFT TOP/SIDES :50MM
  - COLUMNS, PEDESTALS :40MM
  - BEAMS :30MM OR DIA OF BAR
  - SLABS :30MM OR DIA OF BAR WHICHEVER IS MORE :30MM
- RETAIN. WALL
- REINFORCEMENT STEEL SHALL BE HIGH YIELD STRENGTH DEFORMED BARS(#) CONFORMING TO IS:1786 Grade Fe 550D
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- USE COUPLERS FOR OVERLAPPING MORE THAN 20MM DIA. BAR.

  
**PROFESSOR**  
Department of Civil Engineering  
Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005

  
**ASSISTANT PROFESSOR**  
Department of Architecture,  
Planning and Design  
Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005

RO	05.02.2026	ISSUED FOR TENDER
REV.	DATE	REVISION NOTE

**NUCLEAR POWER CORPORATION OF INDIA LIMITED**  
( A GOVERNMENT OF INDIA ENTERPRISE )

REVIEWED:	APPROVED:
NAME:	NAME:
DATE:	DATE:

DRAWING NO. (NPCIL INTERNAL DWG. NO.) KAIGA-1-6/91214/5005/ST/RO	REVISION NO. RO
---------------------------------------------------------------------	--------------------

**VYOM**  
ARCHITECTS & ENGINEERS  
E-147, OKHLA PHASE-3, NEW DELHI 110020.  
T: +91 11 2691 0018 / 0019  
E: INFO@VYOM.IN W: WWW.VYOM.IN

TITLE :- TYPE-D SPECIAL  
TYPICAL SHEAR WALL IN PLAN

DES'D. DATE	DR'N. DATE	BS 05/02/2026	REV'D. DATE	BP 05/02/2026
DES. CHK'D. DATE	DRG. CHK'D. DATE	SM 05/02/2026	APP'D. DATE	VB 05/02/2026

PROJECT	KAIGA-5&6 TOWNSHIP	SCALE	1:50
PROJECTION			

DRG. No. NPCL-KAGA-WD-ST-DSP-01d	REV. No. RO
----------------------------------	----------------

FLOPPY/CD No. FILE NAME: TYPE-D SPECIAL

DRG. TO BE READ IN CONJUNCTION WITH DCN/FCN/ECN. IF ANY.



THIS DESIGN AND DRAWING IS THE PROPERTY OF THE NUCLEAR POWER CORPORATION. IT MUST BE RETURNED WITH QUOTATION OR UPON DELIVERY OF MATERIAL / EQUIPMENT TO THE SUPPLIER. EXCEPT BY PERMISSION OF THE OWNER.

DRG. No. NPCL-KAGA-WD-ST-DSP-02

### NOTES :-

- (1) SULPHATE RESISTING CEMENT (SRC) SHALL BE USED FOR CONCRETE CASTING UPTO PLINTH LVL.
- (2) CONTINOUS DEWATERING SHALL BE DONE AT SITE. TILL THE CASTING OF STILT FLOOR ROOF SLAB.
- (3) MINIMUM CEMENT CONTENT SHOULD BE 340kg/m3

### RAFT FOUNDATION PLAN TOP & BOTTOM ALL THROUGH BAR DETAILS.

### FOOTING REINFORCEMENT SCHEDULE

MARK	SIZE		THICKNESS	PEDESTAL		BOTTOM REINFORCEMENT		TOP REINFORCEMENT	
	L	B		DEPTH	OFFSET/WIDTH	MAIN	CROSS	MAIN	CROSS
CF1	AS/PLAN		800	200	500	20 $\Phi$ @100c/c	20 $\Phi$ @100c/c	20 $\Phi$ @100c/c	20 $\Phi$ @100c/c
CF2	AS/PLAN		800	200	500	20 $\Phi$ @100c/c	20 $\Phi$ @100c/c	20 $\Phi$ @100c/c	20 $\Phi$ @100c/c

- 1). ALL DIMENSIONS ARE IN MILLIMETERS.
- 2). DRAWINGS SHALL NOT BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
- 3). CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCY BEFORE EXECUTION OF WORK, TO THE CONSULTANTS.
- 4). THE STRUCTURE IS DESIGNED CONSIDERING ABOVE INDICATED CONCRETE & REINFORCING STEEL GRID. IT IS CONTRACTORS RESPONSIBILITY TO ACHIEVE THE DESIRE STRENGTH BY STANDARD DESIGN MIX.
- 5). ALL DIMENSIONS /LEVELS & CUT OUT CHECK AS PER ARCHITECTURAL & SERVICES DRG.
- 6). CONC.MIX.
  - a). FOUNDATION:- M35
  - b). COLUMN:- AS/COLUMN SCHEDULE
  - c). BEAM & SLAB:- M30
  - d). OVERHEAD TANK:- M30
- 7). SLAB STEEL EXTEND .3xLENGTH OF PANEL FROM THE FACE OF BEAM.
- 8). ALL RCC WORKS SHOULD BE CARRIED OUT AS PER LAYER SHALL BE AS FOLLOWS:
  - RAFT BOTTOM :60MM
  - RAFT TOP/SIDES :50MM
  - COLUMNS, PEDESTALS :40MM
  - BEAMS :30MM OR DIA OF BAR
  - SLABS :30MM OR DIA OF BAR WHICHEVER IS MORE
  - RETAIN. WALL :30MM
- 9). REINFORCEMENT STEEL SHALL BE HIGH YIELD STRENGTH DEFORMED BARS(#) CONFORMING TO IS:1786 Grade Fe 550D
- 10). NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED AT ANY SECTION.
- 11). STRUCTURAL & ARCHITECTURAL DRAWINGS SHOULD BE FOLLOWED IN RELATION TO EACHOTHER & ANY AMBIGUITY IF FOUND SHOULD BE REPORTED IN WRITING BEFORE EXECUTION.
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- 16). FOLLOW THIS DRG. WITH RESPECT TO OTHER DRG.
- 17). USE COUPLERS FOR OVERLAPPING MORE THAN 20MM DIA. BAR.

  
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Department of Civil Engineering  
Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005

  
**ASSISTANT PROFESSOR**  
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Planning and Design  
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Banaras Hindu University  
Varanasi-221005

RO	05.02.2026	ISSUED FOR TENDER
REV.	DATE	REVISION NOTE



**NUCLEAR POWER CORPORATION OF INDIA LIMITED**  
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REVIEWED:	APPROVED:
NAME:	NAME:
DATE:	DATE:

DRAWING NO. (NPCIL INTERNAL DWG. NO.) KAIGA-1-6/91214/5006/ST/RO	REVISION NO. RO
---------------------------------------------------------------------	--------------------

ARCHITECT:  
  
**VYOM**  
ARCHITECTS & ENGINEERS  
E-147, OKHLA PHASE-3, NEW DELHI 110020.  
T: +91 11 2691 0018 / 0019  
E: INFO@VYOM.IN W: WWW.VYOM.IN

TITLE :-  
**TYPE-D SPECIAL  
RAFT FOUNDATION PLAN &  
FOOTING SCHEDULE DETAILS.**

DES'D. DATE	DR'N. DATE	BS 05/02/2026	REV'D. DATE	BP 05/02/2026
DES. CHK'D. DATE	DRG. CHK'D. DATE	SM 05/02/2026	APP'D. DATE	VB 05/02/2026

PROJECT	KAIGA-5&6 TOWNSHIP	SCALE	1:100
PROJECTION			

DRG. No. NPCL-KAGA-WD-ST-DSP-02	REV. No. RO
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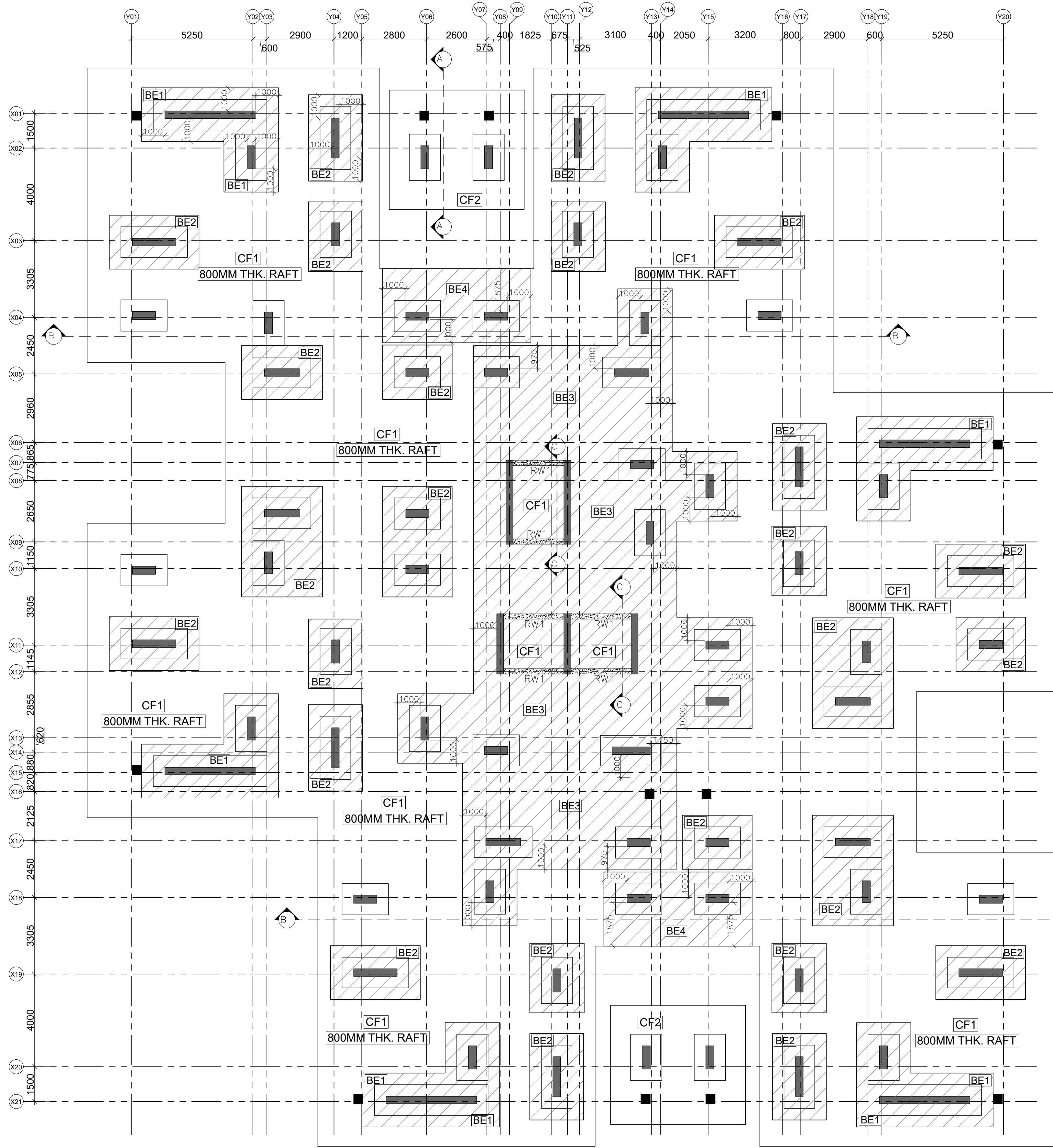
FLOPPY/CD No. FILE NAME: TYPE-D SPECIAL

DRG. TO BE READ IN CONJUNCTION WITH DCN/FCN/EON, IF ANY.



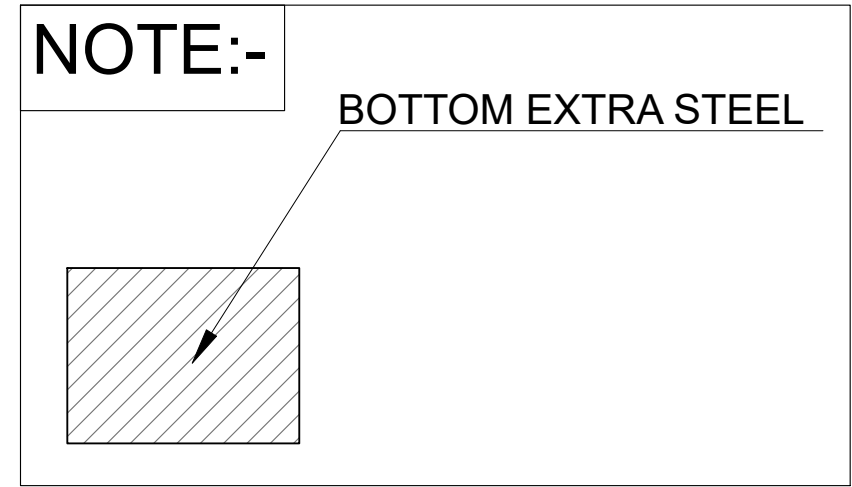
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DRG. No. NPCL-KAGA-WD-ST-DSP-02a



RAFT FOUNDATION PLAN  
BOTTOM EXTRA BAR DETAILS.

NOTES:-  
PROVIDE SPACER BARS BETWEEN 2 LAYERS OF REINFORCEMENT @ 2000 MM C/C. DIA OF SPACER BAR SHALL NOT BE LESS THAN 25MM.



FOOTING SCHEDULE(BOTTOM EXTRA STEEL)

S.NO	LEGENDS	BOTTOM EXTRA STEEL	
		MAIN	CROSS
1.	BE1	20@100c/c(1ST LAYER) 20@100c/c(2ND LAYER)	20@100c/c(1ST LAYER) 20@100c/c(2ND LAYER)
2.	BE2	16@100c/c(1ST LAYER) 16@100c/c(2ND LAYER)	16@100c/c(1ST LAYER) 16@100c/c(2ND LAYER)
3.	BE3	25@100c/c(1ST LAYER) 25@100c/c(2ND LAYER)	20@100c/c(1ST LAYER) 20@100c/c(2ND LAYER)
4.	BE4	16@100c/c(1ST LAYER)	16@100c/c(1ST LAYER)

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- THE STRUCTURE IS DESIGNED CONSIDERING ABOVE INDICATED CONCRETE & REINFORCING STEEL GRID. IT IS CONTRACTORS RESPONSIBILITY TO ACHIEVE THE DESIRE STRENGTH BY STANDARD DESIGN MIX.
- ALL DIMENSIONS /LEVELS & CUT OUT CHECK AS PER ARCHITECTURAL & SERVICES DRG.
- CONC.MIX.
  - FOUNDATION:- M35
  - COLUMN:- AS/COLUMN SCHEDULE
  - BEAM & SLAB:- M30
  - OVERHEAD TANK:- M30
- SLAB STEEL EXTEND .3xLENGTH OF PANEL FROM THE FACE OF BEAM.
- ALL RCC WORKS SHOULD BE CARRIED OUT AS PER LAYER SHALL BE AS FOLLOWS:
  - RAFT BOTTOM :60MM
  - RAFT TOP/SIDES :50MM
  - COLUMNS, PEDESTALS :40MM
  - BEAMS :30MM OR DIA OF BAR
  - SLABS :30MM OR DIA OF BAR WHICHEVER IS MORE
  - RETAIN. WALL :30MM
- REINFORCEMENT STEEL SHALL BE HIGH YIELD STRENGTH DEFORMED BARS(#) CONFORMING TO IS:1786 Grade Fe 550D
- NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED AT ANY SECTION.
- STRUCTURAL & ARCHITECTURAL DRAWINGS SHOULD BE FOLLOWED IN RELATION TO EACHOTHER & ANY AMBIGUITY IF FOUND SHOULD BE REPORTED IN WRITING BEFORE EXECUTION.
- STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR CENTRING, CURING, FABRICATION, WELDING, MISUNDERSTANDING OF DRGS. & QUALITY OF MATERIALS.
- PROVIDE DOWELS FOR ANY ARCHITECTURAL FEATURES NOT SHOWN IN THIS DRAWING AS PER ARCHITECTURAL DRAWINGS.
- STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR ANY STRUCTURAL PROBLEM/FAILURE ARISING DUE TO ANY UNAUTHORIZED DRILLING, CUTTING, BREAKING ETC. IN ANY RCC MEMBER FOR ANY PURPOSE WHATSOEVER (AC PIPING, ELECTRICAL, FIRE, PLUMBING ETC.)
- THIS DRG. IS VALID & DESIGN FOR S+12TH STOREY BUILDING ONLY.
- FOLLOW THIS DRG. WITH RESPECT TO OTHER DRG.
- USE COUPLERS FOR OVERLAPPING MORE THAN 20MM DIA. BAR.

*P. Kumar*  
**PROFESSOR**  
Department of Civil Engineering  
Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005

*S. K. Singh*  
**ASSISTANT PROFESSOR**  
Department of Architecture,  
Planning and Design  
Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005



NUCLEAR POWER CORPORATION OF INDIA LIMITED  
( A GOVERNMENT OF INDIA ENTERPRISE )

REVIEWED:

APPROVED:

NAME:

NAME:

DATE:

DATE:

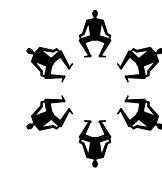
DRAWING NO. (NPCL INTERNAL DWG. NO.)

REVISION NO.

KAIGA-1-6/91214/5007/ST/RO

RO

ARCHITECT:



**VYOM**  
ARCHITECTS & ENGINEERS  
E-147, OKHLA PHASE-3, NEW DELHI 110020.  
T: +91 11 2691 0018 / 0019  
E: INFO@VYOM.IN W: WWW.VYOM.IN

TITLE :-  
TYPE-D SPECIAL  
BOTTOM EXTRA BAR DETAILS.

DES'D.

DR'N.

REV'D.

BP

DATE

DATE

DATE

05/02/2026

DES. CHK'D.

DRG. CHK'D.

APP'D.

VB

DATE

DATE

DATE

05/02/2026

PROJECT

KAIGA-5&6 TOWNSHIP

SCALE

1:100

PROJECTION

DRG. No. NPCL-KAGA-WD-ST-DSP-02a

REV. No.

FLOPPY/CD No.

FILE NAME: TYPE-D SPECIAL

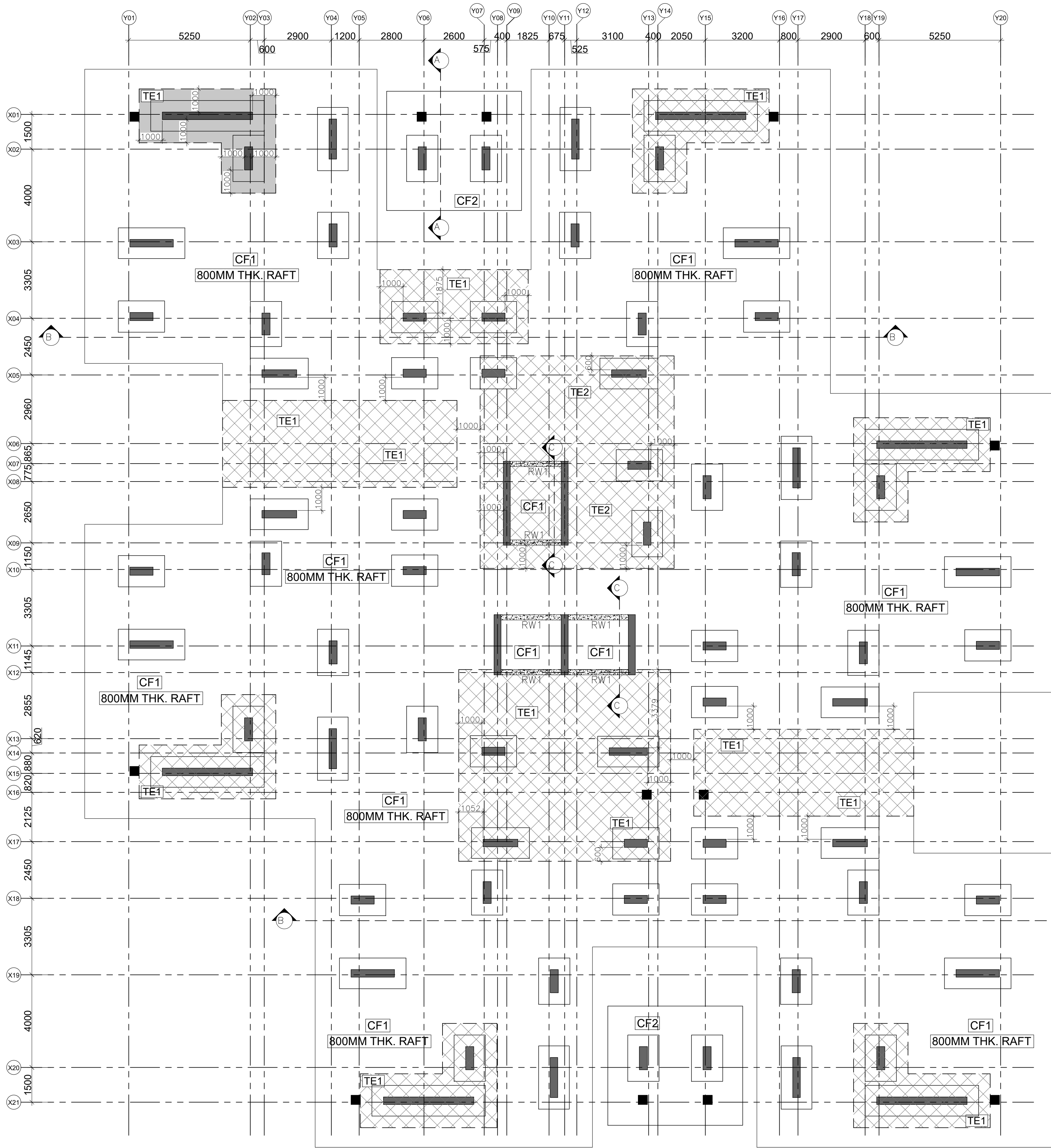
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DRG. TO BE READ IN CONJUNCTION WITH DCN/FCN/ECN, IF ANY.



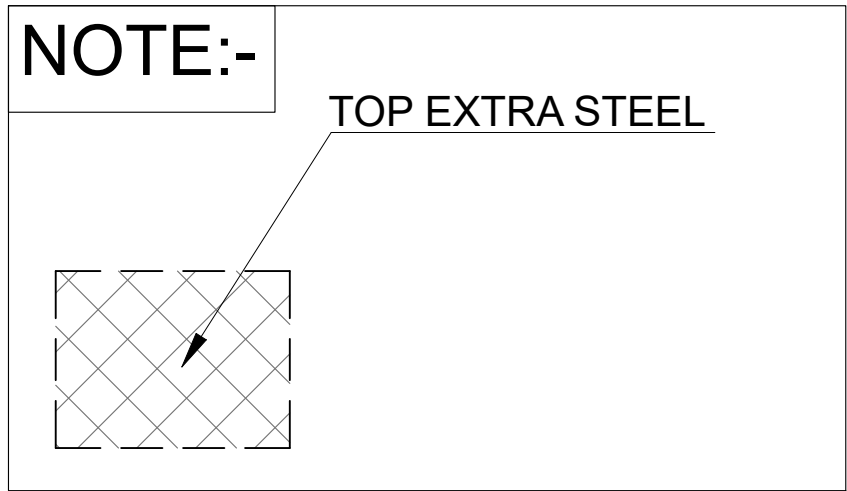
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DRG. No. NPCL-KAGA-WD-ST-DSP-02b



RAFT FOUNDATION PLAN  
TOP EXTRA BAR DETAILS.

NOTES:-  
PROVIDE SPACER BARS BETWEEN 2 LAYERS OF REINFORCEMENT @ 2000 MM C/C. DIA OF SPACER BAR SHALL NOT BE LESS THAN 25MM.



FOOTING SCHEDULE(TOP EXTRA STEEL)

S.NO.	LEGENDS	BOTTOM EXTRA STEEL	
		MAIN	CROSS
1.	TE1	20@100c/c(1ST LAYER)	16@100c/c(1ST LAYER)
2.	TE2	20@100c/c(1ST LAYER) 20@100c/c(1ST LAYER)	20@100c/c(1ST LAYER) 20@100c/c(1ST LAYER)

REFERENCE DRAWINGS		DRAWING No.		R0		ISSUED FOR TENDER		BS		BP		SM		BP		VB	
No.		LOCATION		DESCRIPTION		DR'N.		DES'D.		D.CHK'D.		REV'D.		APP'D.			
				REVISIONS		SIGNATURE		WITH		DATE							

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- CONC.MIX.
  - FOUNDATION:- M35
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  - OVERHEAD TANK:- M30
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**PROFESSOR**  
Department of Civil Engineering  
Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005

  
**ASSISTANT PROFESSOR**  
Department of Architecture,  
Planning and Design  
Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005



NUCLEAR POWER CORPORATION OF INDIA LIMITED  
( A GOVERNMENT OF INDIA ENTERPRISE )

REVIEWED:	APPROVED:
NAME:	NAME:
DATE:	DATE:

DRAWING NO. (NPCL INTERNAL DWG. NO.) KAIGA-1-6/91214/5008/ST/R0	REVISION NO. R0
--------------------------------------------------------------------	--------------------

ARCHITECT:  
  
**VYOM**  
ARCHITECTS & ENGINEERS  
E-147, OKHLA PHASE-3, NEW DELHI 110020.  
T: +91 11 2691 0018 / 0019  
E: INFO@VYOM.IN W: WWW.VYOM.IN

TITLE :-  
TYPE-D SPECIAL  
TOP EXTRA BAR DETAILS.

DES'D. DATE	DR'N. DATE	BS 05/02/2026	REV'D. DATE	BP 05/02/2026
DES. CHK'D. DATE	DRG. CHK'D. DATE	SM 05/02/2026	APP'D. DATE	VB 05/02/2026

PROJECT	KAIGA-5&6 TOWNSHIP	SCALE	1:100
PROJECTION			

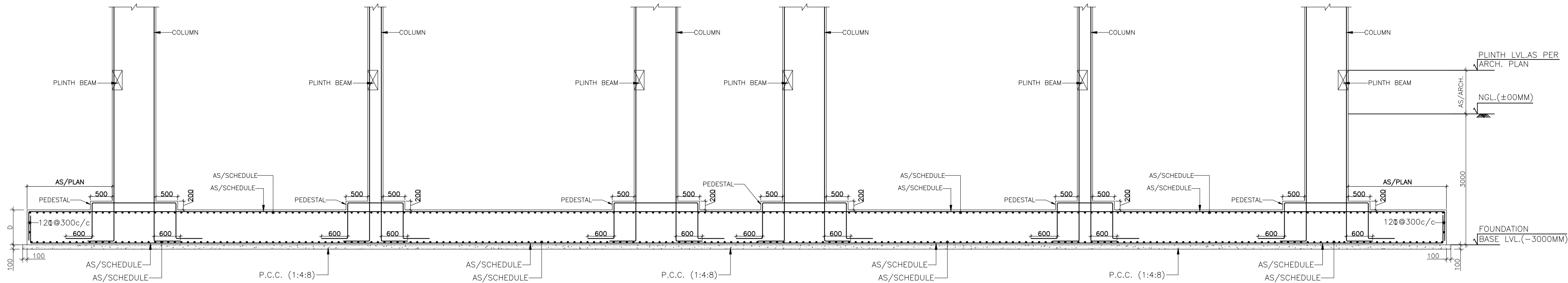
DRG. No. NPCL-KAGA-WD-ST-DSP-02b	REV. No. R0
FLOPPY/CD No.	FILE NAME: TYPE-D SPECIAL

DRG. TO BE READ IN CONJUNCTION WITH DCN/FCN/EON, IF ANY.



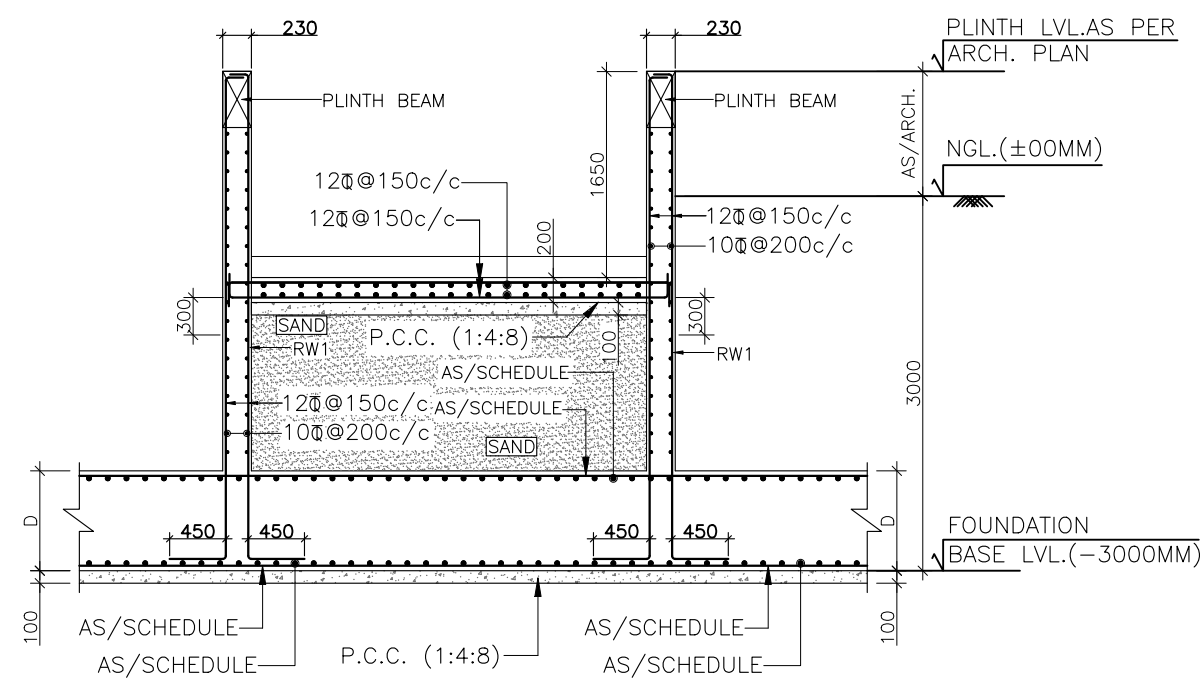
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DRG. No. NPCL-KAGA-WD-ST-DSP-02c

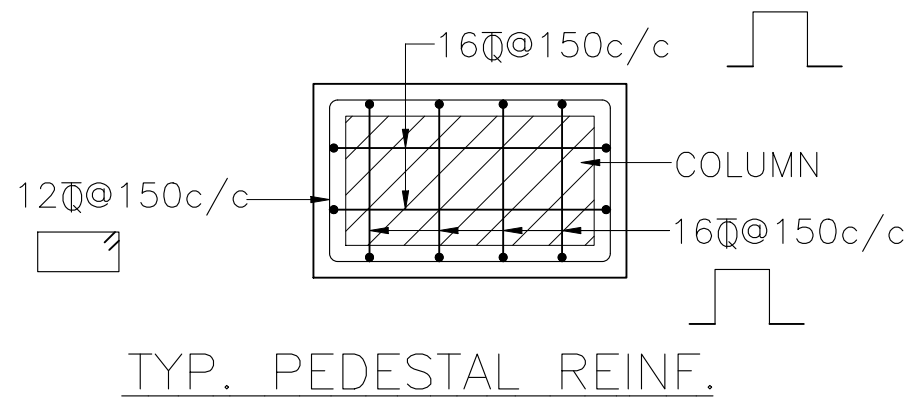


SECTION B-B

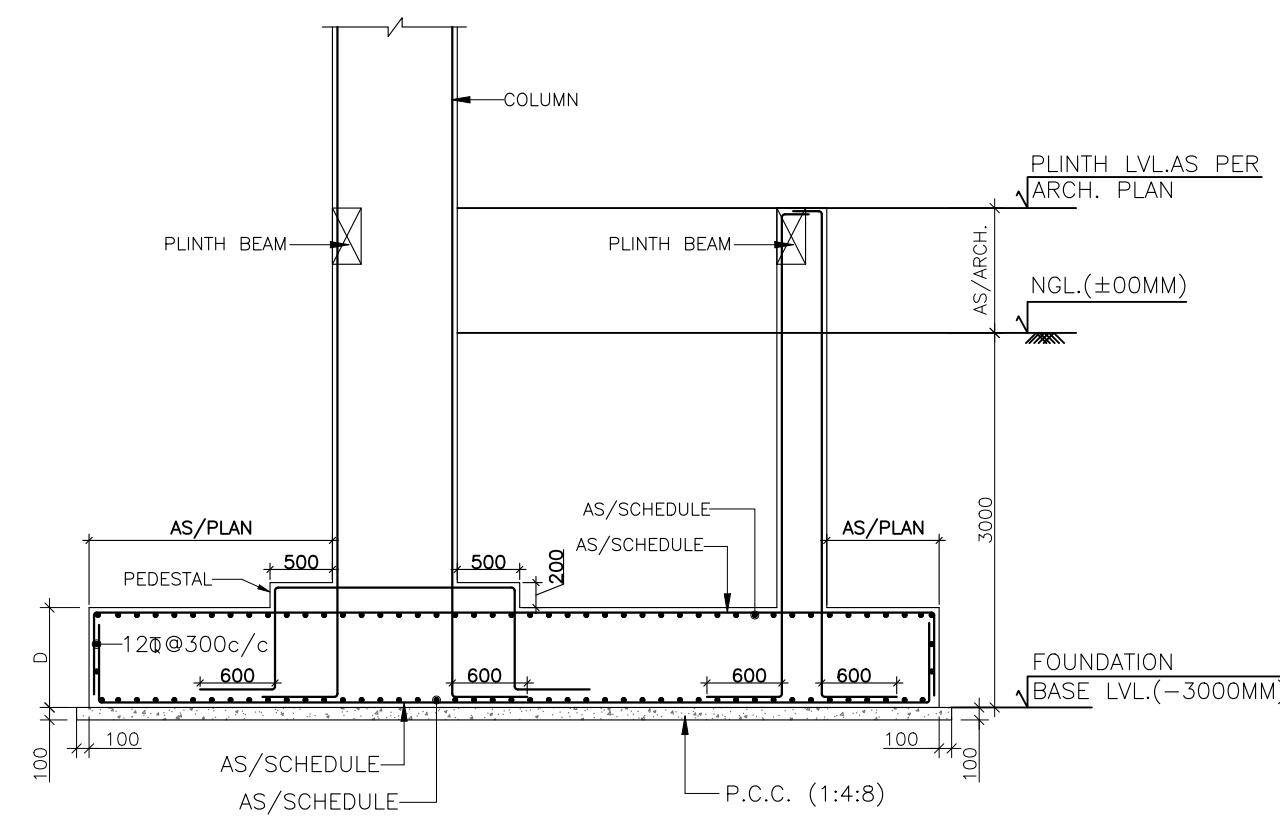
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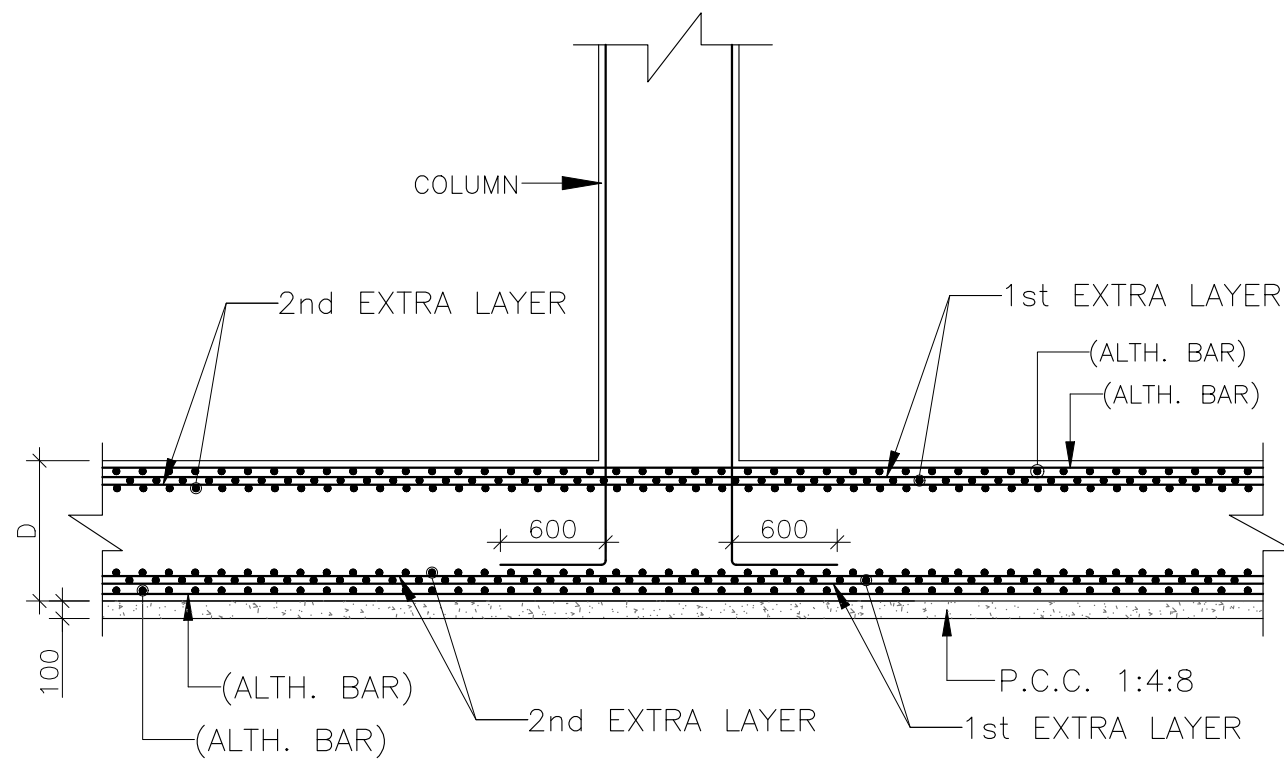
SECTION C-C



TYP. PEDESTAL REINF.



SECTION A-A



TYP. (ALTH. BAR & EXTRA BAR LAYER DETAILS).

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Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005

**ASSISTANT PROFESSOR**  
Department of Architecture,  
Planning and Design  
Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005



**NUCLEAR POWER CORPORATION OF INDIA LIMITED**  
( A GOVERNMENT OF INDIA ENTERPRISE )

REVIEWED:	APPROVED:
NAME:	NAME:
DATE:	DATE:

DRAWING NO. (NPCIL INTERNAL DWG. NO.) KAGA-1-6/91214/5009/ST/R0	REVISION NO. R0
--------------------------------------------------------------------	--------------------

ARCHITECT:  
**VYOM**  
ARCHITECTS & ENGINEERS  
E-147, OKHLA PHASE-3, NEW DELHI 110020.  
T: +91 11 2691 0018 / 0019  
E: INFO@VYOM.IN W: WWW.VYOM.IN

TITLE :- TYPE-D SPECIAL  
RAFT FOUNDATION SECTION DETAILS.

DES'D. DATE	DR'N. DATE	REV'D. DATE	BP DATE
	BS 05/02/2026		05/02/2026
DES. CHK'D. DATE	DRG. CHK'D. DATE	APP'D. DATE	VB 05/02/2026
	SM 05/02/2026		

PROJECT KAIGA-5&6 TOWNSHIP	SCALE 1:50
	PROJECTION

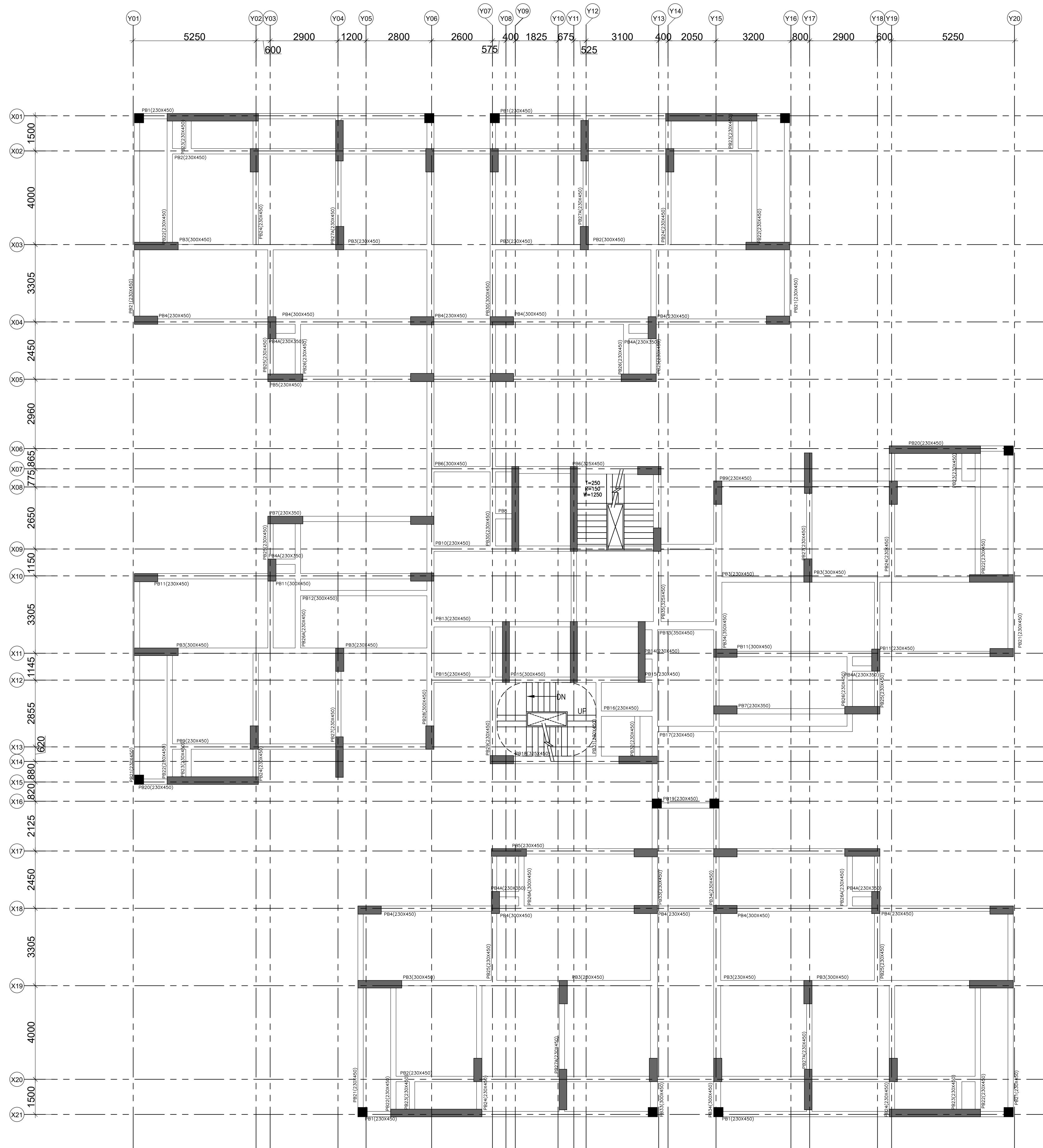
DRG. No. NPCL-KAGA-WD-ST-DSP-02c	REV. No. R0
FLOPPY/CD No.	FILE NAME: TYPE-D SPECIAL

DRG. TO BE READ IN CONJUNCTION WITH DCN/FCN/EON, IF ANY.



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DRG. No. NPCL-KAGA-WD-ST-DSP-03



PLINTH LEVEL BEAM PLAN  
ALL BEAM SHALL BE AS/PLAN & SECTION DETAILS.(U.N.O)  
U.N.O.=UNLESS NOTIFIED OTHERWISE

- 1). ALL DIMENSIONS ARE IN MILLIMETERS.
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- 6). CONC.MIX.
  - a). FOUNDATION:- M35
  - b). COLUMN:- AS/COLUMN SCHEDULE
  - c). BEAM & SLAB:- M30
  - d). OVERHEAD TANK:- M30
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  - COLUMNS, PEDESTALS :40MM
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**PROFESSOR**  
Department of Civil Engineering  
Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005

**ASSISTANT PROFESSOR**  
Department of Architecture,  
Planning and Design  
Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005

RO	05.02.2026	ISSUED FOR TENDER
REV.	DATE	REVISION NOTE

**NUCLEAR POWER CORPORATION OF INDIA LIMITED**  
( A GOVERNMENT OF INDIA ENTERPRISE )

REVIEWED:	APPROVED:
NAME:	NAME:
DATE:	DATE:

DRAWING NO. (NPCL INTERNAL DWG. NO.)  
KAIGA-1-6/91214/5010/ST/R0

REVISION NO.  
R0

ARCHITECT:  
**VYOM**  
ARCHITECTS & ENGINEERS  
E-147, OKHLA PHASE-3, NEW DELHI 110020.  
T: +91 11 2691 0018 / 0019  
E: INFO@VYOM.IN W: WWW.VYOM.IN

TITLE :-  
PLINTH LVL. BEAM PLAN

DES'D. DATE	DR'N. DATE	BS 05/02/2026	REV'D. DATE	BP 05/02/2026
DES. CHK'D. DATE	DRG. CHK'D. DATE	SM 05/02/2026	APP'D. DATE	VB 05/02/2026

PROJECT KAIGA-5&6 TOWNSHIP

SCALE 1:100

PROJECTION

DRG. No. NPCL-KAGA-WD-ST-DSP-03

REV. No.  
R0

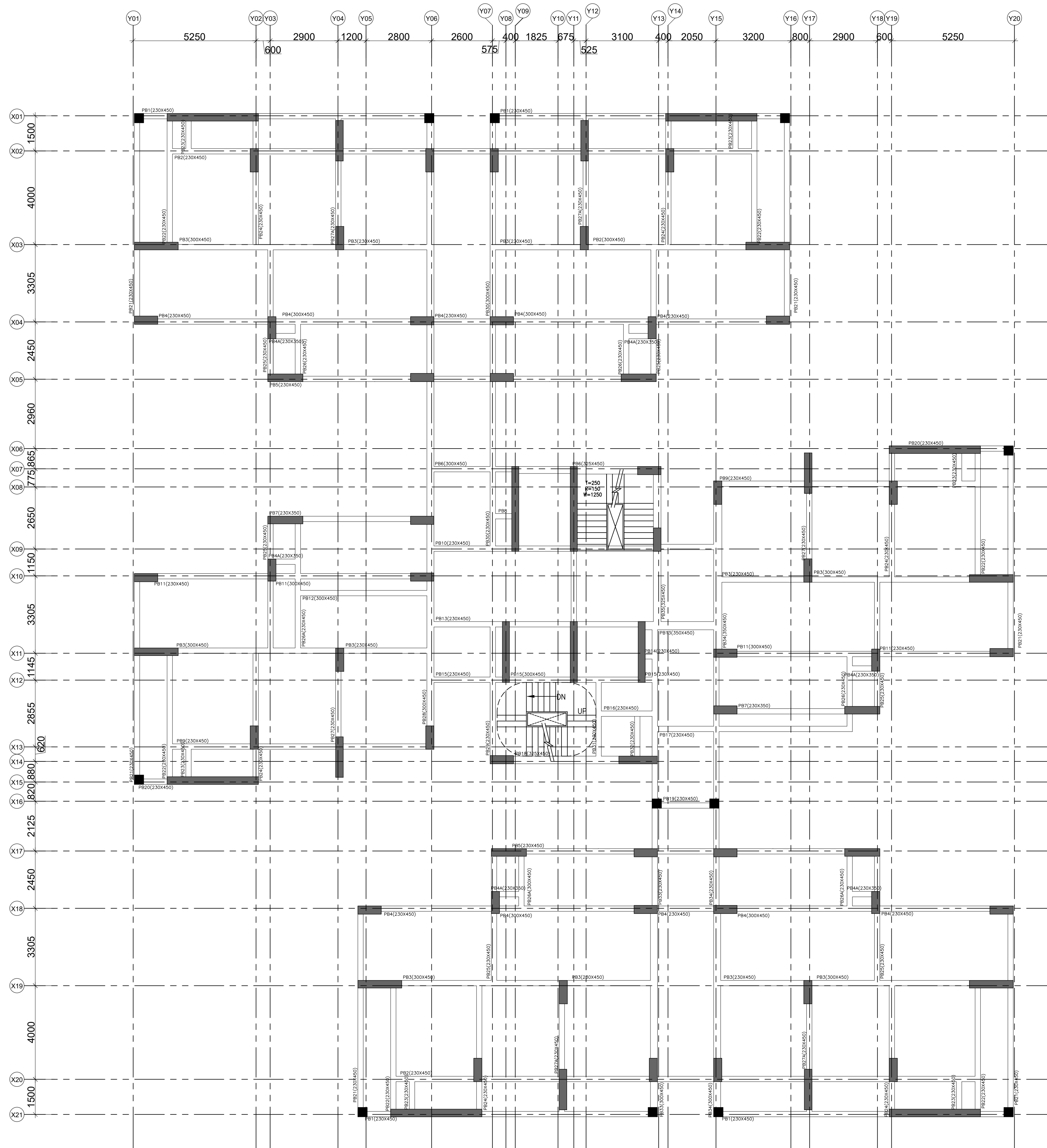
FLOPPY/CD No. FILE NAME: TYPE-D SPECIAL

DRG. TO BE READ IN CONJUNCTION WITH DCN/FCN/ECON. IF ANY.



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DRG. No. NPCL-KAGA-WD-ST-DSP-03a



PLINTH LEVEL BEAM PLAN  
ALL BEAM SHALL BE AS/PLAN & SECTION DETAILS.(U.N.O)  
U.N.O.=UNLESS NOTIFIED OTHERWISE

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  - c). BEAM & SLAB:- M30
  - d). OVERHEAD TANK:- M30
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**PROFESSOR**  
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Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005

**ASSISTANT PROFESSOR**  
Department of Architecture,  
Planning and Design  
Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005

RO	05.02.2026	ISSUED FOR TENDER
REV.	DATE	REVISION NOTE

**NUCLEAR POWER CORPORATION OF INDIA LIMITED**  
( A GOVERNMENT OF INDIA ENTERPRISE )

REVIEWED:	APPROVED:
NAME:	NAME:
DATE:	DATE:

DRAWING NO. (NPCL INTERNAL DWG. NO.) KAIGA-1-6/91214/5011/ST/R0  
REVISION NO. R0

ARCHITECT:  
**VYOM**  
ARCHITECTS & ENGINEERS  
E-147, OKHLA PHASE-3, NEW DELHI 110020.  
T: +91 11 2691 0018 / 0019  
E: INFO@VYOM.IN W: WWW.VYOM.IN

TITLE :-  
PLINTH LVL. BEAM DETAILS

DES'D. DATE	DR'N. DATE	BS 05/02/2026	REV'D. DATE	BP 05/02/2026
DES. CHK'D. DATE	DRG. CHK'D. DATE	SM 05/02/2026	APP'D. DATE	VB 05/02/2026

PROJECT KAIGA-5&6 TOWNSHIP  
SCALE 1:100  
PROJECTION

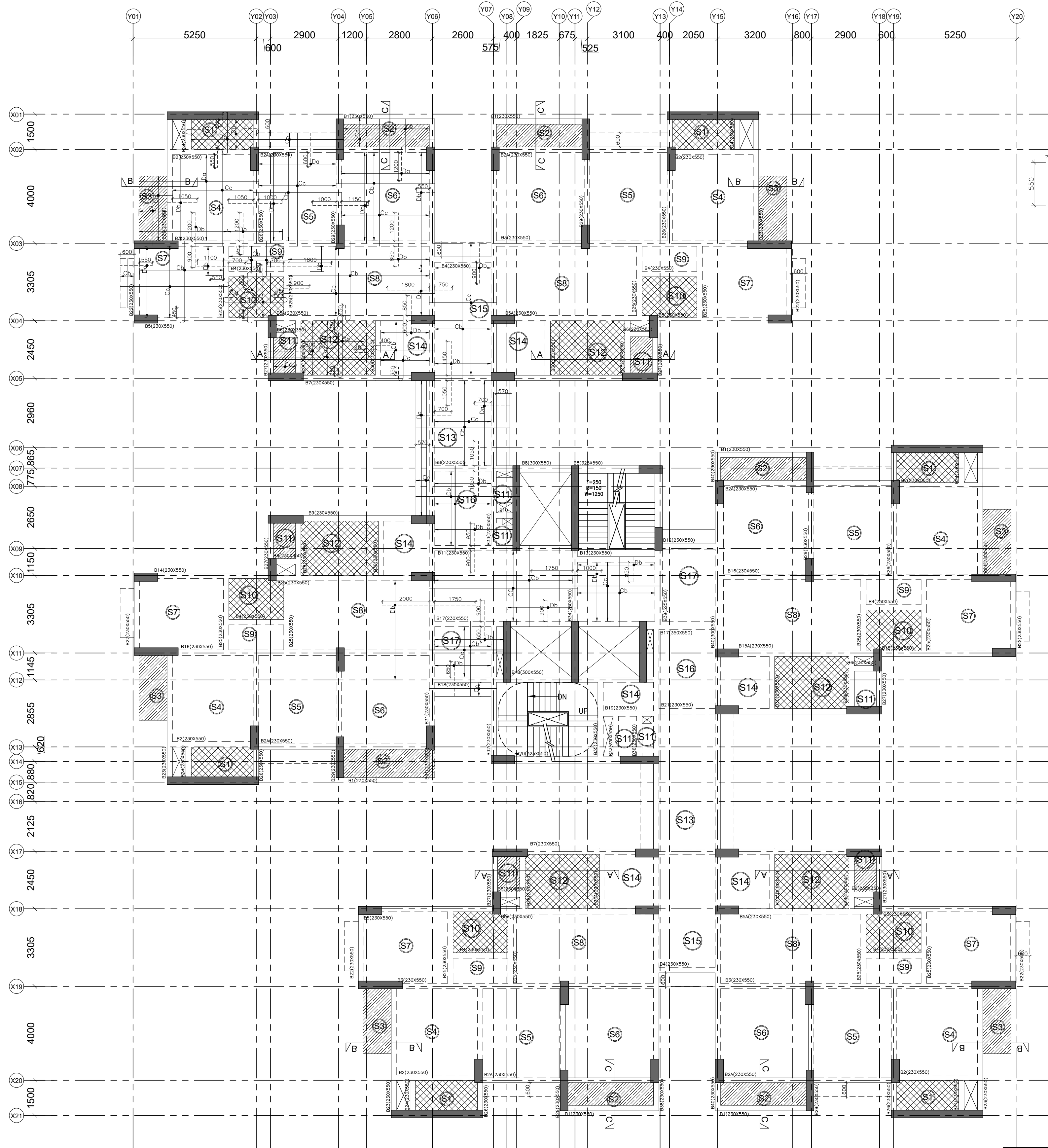
DRG. No. NPCL-KAGA-WD-ST-DSP-03a  
FLOPPY/CD No. FILE NAME: TYPE-D SPECIAL  
REV. No. R0

DRG. TO BE READ IN CONJUNCTION WITH DCN/FCN/ECON. IF ANY.



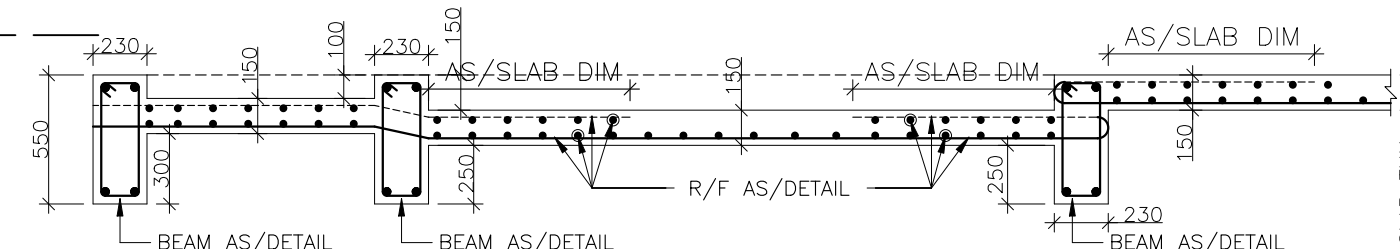
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DRG. No.  
NPCL-KAGA-WD-ST-DSP-04

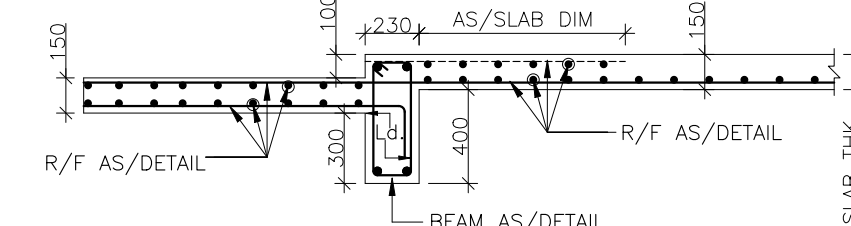


GROUND FLOOR ROOF PLAN  
ALL BEAM SHALL BE AS/PLAN & SECTION DETAILS.(U.N.O)  
ALL SLAB SHALL BE 150MM THICK. U.N.O.  
U.N.O.=UNLESS NOTIFIED OTHERWISE

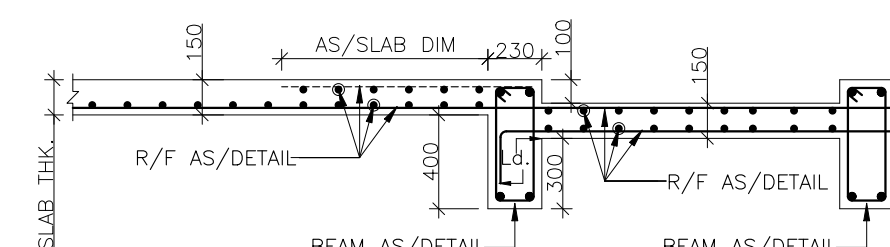
NOTE:- FILLING IN SUNKEN SLAB SHALL BE OF LIGHT-WEIGHT MATERIAL OF DENSITY NOT MORE THAN 800Kg/M³



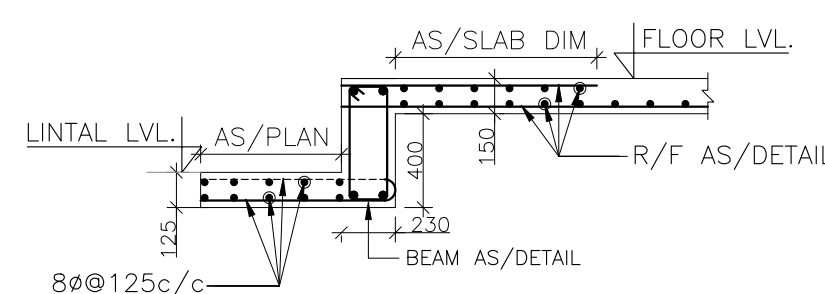
SECTION A-A



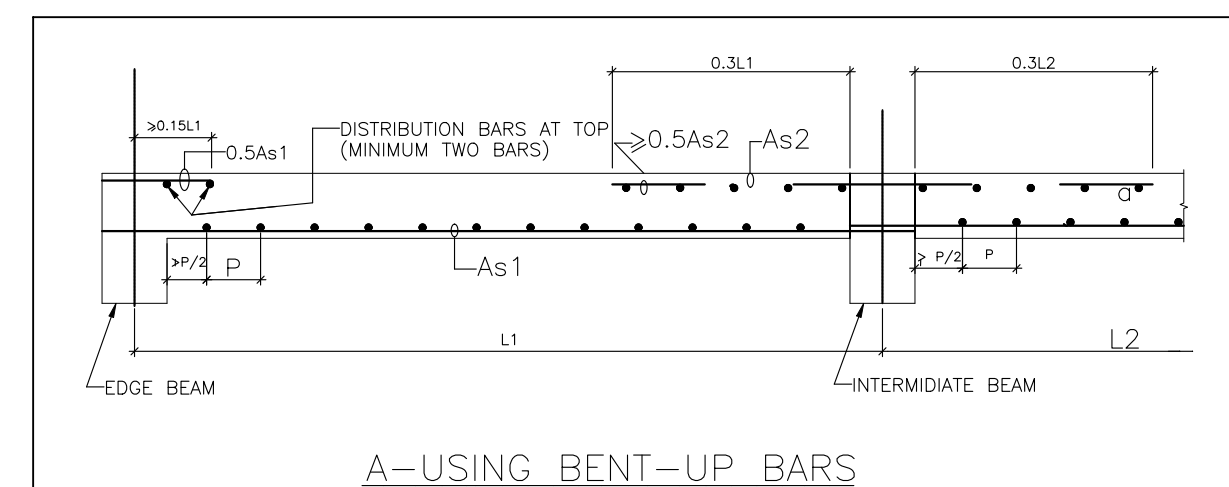
SECTION B-B



SECTION C-C



TYP. SECTION FOR LINTAL SUNSHADE



SLAB REINF. SCHEDULE

MARK	REINFORCEMENT
Cb	8ø@125c/c
Cc	8ø@150c/c
Db	8ø@125c/c
Da	10ø@125c/c
○	INDICATE SLAB THICK.
Ld	50xDIA OF BAR
---	TOP REINF.
---	BOTTOM REINF.
L.V.	LENGTH VARIES
H.B	HIDDEN BEAM
U.N.O.	UN NOTIFIED OBJECT
ALL DIST. STEEL	8ø@200c/c

LEGEND	
	SUNKEN 150MM
	SUNKEN 100MM

- ALL DIMENSIONS ARE IN MILLIMETERS.
- DRAWINGS SHALL NOT BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
- CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCY BEFORE EXECUTION OF WORK, TO THE CONSULTANTS.
- THE STRUCTURE IS DESIGNED CONSIDERING ABOVE INDICATED CONCRETE & REINFORCING STEEL GRID. IT IS CONTRACTORS RESPONSIBILITY TO ACHIEVE THE DESIRE STRENGTH BY STANDARD DESIGN MIX.
- ALL DIMENSIONS /LEVELS & CUT OUT CHECK AS PER ARCHITECTURAL & SERVICES DRG.
- CONC.MIX.
  - FOUNDATION:- M35
  - COLUMN:- AS/COLUMN SCHEDULE
  - BEAM & SLAB:- M30
  - OVERHEAD TANK:- M30
- SLAB STEEL EXTEND .3xLENGTH OF PANEL FROM THE FACE OF BEAM.
- ALL RCC WORKS SHOULD BE CARRIED OUT AS PER LAYER SHALL BE AS FOLLOWS:
  - RAFT BOTTOM :60MM
  - RAFT TOP/SIDES :50MM
  - COLUMNS, PEDESTALS :40MM
  - BEAMS :30MM OR DIA OF BAR
  - SLABS :30MM OR DIA OF BAR WHICHEVER IS MORE :30MM
- REINFORCEMENT STEEL SHALL BE HIGH YIELD STRENGTH DEFORMED BARS(Ø) CONFORMING TO IS:1786 Grade Fe 550D.
- NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED AT ANY SECTION.
- STRUCTURAL & ARCHITECTURAL DRAWINGS SHOULD BE FOLLOWED IN RELATION TO EACHOTHER & ANY AMBIGUITY IF FOUND SHOULD BE REPORTED IN WRITING BEFORE EXECUTION.
- STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR CENTRING, CURING, FABRICATION, WELDING, MISUNDERSTANDING OF DRGS. & QUALITY OF MATERIALS.
- PROVIDE DOWELS FOR ANY ARCHITECTURAL FEATURES NOT SHOWN IN THIS DRAWING AS PER ARCHITECTURAL DRAWINGS.
- STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR ANY STRUCTURAL PROBLEM/FAILURE ARISING DUE TO ANY UNAUTHORIZED DRILLING, CUTTING, BREAKING ETC. IN ANY RCC MEMBER FOR ANY PURPOSE WHATSOEVER (AC PIPING, ELECTRICAL, FIRE, PLUMBING ETC.)
- THIS DRG. IS VALID & DESIGN FOR S-12TH STOREY BUILDING ONLY.
- FOLLOW THIS DRG. WITH RESPECT TO OTHER DRG.
- USE COUPLERS FOR OVERLAPPING MORE THAN 20MM DIA. BAR.

**PROFESSOR**  
Department of Civil Engineering  
Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005

**ASSISTANT PROFESSOR**  
Department of Architecture,  
Planning and Design  
Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005

RO	05.02.2026	ISSUED FOR TENDER
REV.	DATE	REVISION NOTE

**NUCLEAR POWER CORPORATION OF INDIA LIMITED**  
( A GOVERNMENT OF INDIA ENTERPRISE )

REVIEWED:	APPROVED:
NAME:	NAME:
DATE:	DATE:

DRAWING NO. (NPCL INTERNAL DWG. NO.) KAIGA-1-6/91214/5012/ST/RO	REVISION NO. RO
--------------------------------------------------------------------	--------------------

ARCHITECT:  
**VYOM**  
ARCHITECTS & ENGINEERS  
E-147, OKHLA PHASE-3, NEW DELHI 110020.  
T: +91 11 2691 0018 / 0019  
E: INFO@VYOM.IN W: WWW.VYOM.IN

TITLE :-  
**GROUND FLOOR FRAMING PLAN**

DES'D. DATE	DR'N. DATE	BS 05/02/2026	REV'D. DATE	BP 05/02/2026
DES. CHK'D. DATE	DRG. CHK'D. DATE	SM 05/02/2026	APP'D. DATE	VB 05/02/2026

PROJECT	KAIGA-5&6 TOWNSHIP	SCALE	1:100
PROJECTION			

DRG. No. NPCL-KAGA-WD-ST-DSP-04	REV. No. RO
FLOPPY/CD No.	FILE NAME: TYPE-D SPECIAL

DRG. TO BE READ IN CONJUNCTION WITH DCN/FCN/ECON. IF ANY.



THIS DESIGN AND DRAWING IS THE PROPERTY OF THE NUCLEAR POWER CORPORATION. IT MUST BE RETURNED WITH QUOTATION OR UPON DELIVERY OF MATERIAL / EQUIPMENT TO THE PROJECT OF THE OWNER. EXCEPT BY PERMISSION OF THE OWNER.

DRG. No.  
A1

NPCL-KAGA-WD-ST-DSP-04a

H

G

F

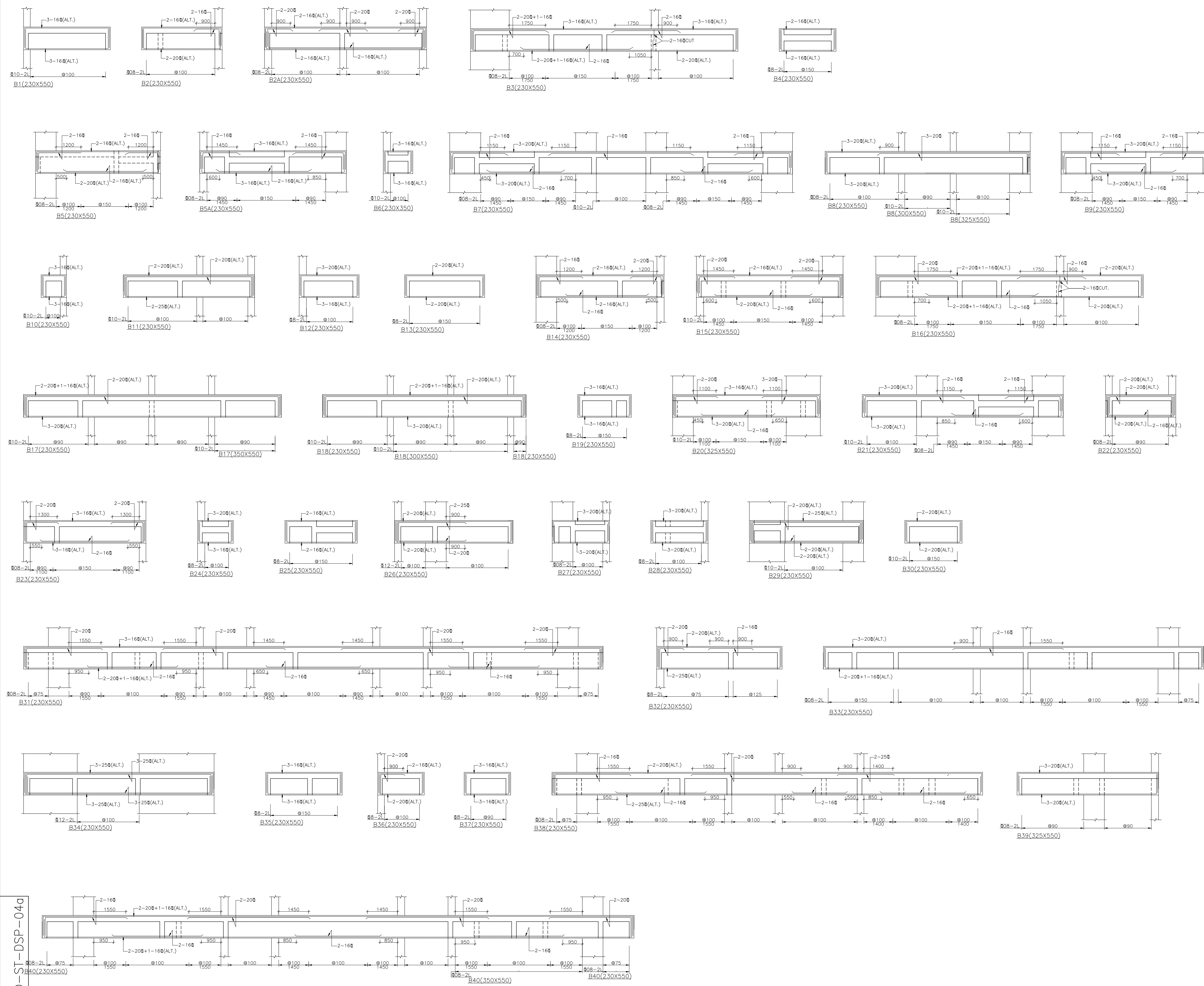
E

D

C

B

A



- 1). ALL DIMENSIONS ARE IN MILLIMETERS.
- 2). DRAWINGS SHALL NOT BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
- 3). CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCY BEFORE EXECUTION OF WORK, TO THE CONSULTANTS.
- 4). THE STRUCTURE IS DESIGNED CONSIDERING ABOVE INDICATED CONCRETE & REINFORCING STEEL GRID. IT IS CONTRACTORS RESPONSIBILITY TO ACHIEVE THE DESIRE STRENGTH BY STANDARD DESIGN MIX.
- 5). ALL DIMENSIONS /LEVELS & CUT OUT CHECK AS PER ARCHITECTURAL & SERVICES DRG.
- 6). CONC.MIX.
  - a). FOUNDATION:- M35
  - b). COLUMN:- AS/COLUMN SCHEDULE
  - c). BEAM & SLAB:- M30
  - d). OVERHEAD TANK:- M30
- 7). SLAB STEEL EXTEND .3xLENGTH OF PANEL FROM THE FACE OF BEAM.
- 8). ALL RCC WORKS SHOULD BE CARRIED OUT AS PER LAYER SHALL BE AS FOLLOWS:
  - RAFT BOTTOM :60MM
  - RAFT TOP/SIDES :50MM
  - COLUMNS, PEDESTALS :40MM
  - BEAMS :30MM OR DIA OF BAR
  - SLABS :30MM OR DIA OF BAR WHICHEVER IS MORE
  - RETAIN. WALL :30MM
- 9). REINFORCEMENT STEEL SHALL BE HIGH YIELD STRENGTH DEFORMED BARS(#) CONFORMING TO IS:1786 Grade Fe 550D
- 10). NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED AT ANY SECTION.
- 11). STRUCTURAL & ARCHITECTURAL DRAWINGS SHOULD BE FOLLOWED IN RELATION TO EACHOTHER & ANY AMBIGUITY IF FOUND SHOULD BE REPORTED IN WRITING BEFORE EXECUTION.
- 12). STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR CENTRING, CURING, FABRICATION, WELDING, MISUNDERSTANDING OF DRGS. & QUALITY OF MATERIALS.
- 13). PROVIDE DOWELS FOR ANY ARCHITECTURAL FEATURES NOT SHOWN IN THIS DRAWING AS PER ARCHITECTURAL DRAWINGS.
- 14). STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR ANY STRUCTURAL PROBLEM/FAILURE ARISING DUE TO ANY UNAUTHORIZED DRILLING, CUTTING, BREAKING ETC. IN ANY RCC MEMBER FOR ANY PURPOSE WHATSOEVER (AC PIPING, ELECTRICAL, FIRE, PLUMBING ETC.)
- 15). THIS DRG. IS VALID & DESIGN FOR S+12TH STOREY BUILDING ONLY.
- 16). FOLLOW THIS DRG. WITH RESPECT TO OTHER DRG.
- 17). USE COUPLERS FOR OVERLAPPING MORE THAN 20MM DIA. BAR.

**PROFESSOR**  
Department of Civil Engineering  
Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005

**ASSISTANT PROFESSOR**  
Department of Architecture,  
Planning and Design  
Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005

RO	05.02.2026	ISSUED FOR TENDER
REV.	DATE	REVISION NOTE

**NUCLEAR POWER CORPORATION OF INDIA LIMITED**  
( A GOVERNMENT OF INDIA ENTERPRISE )

REVIEWED:	APPROVED:
NAME:	NAME:
DATE:	DATE:

DRAWING NO. (NPCL INTERNAL DWG. NO.) KAIGA-1-6/91214/5013/ST/R0	REVISION NO. R0
--------------------------------------------------------------------	--------------------

ARCHITECT:  
**VYOM**  
ARCHITECTS & ENGINEERS  
E-147, OKHLA PHASE-3, NEW DELHI 110020.  
T: +91 11 2691 0018 / 0019  
E: INFO@VYOM.IN W: WWW.VYOM.IN

TITLE :-  
**GROUND FLOOR ROOF BEAM DETAILS**

DES'D. DATE	DR'N. DATE	BS 05/02/2026	REV'D. DATE	BP 05/02/2026
DES. CHK'D. DATE	DRG. CHK'D. DATE	SM 05/02/2026	APP'D. DATE	VB 05/02/2026

PROJECT	KAIGA-5&6 TOWNSHIP	SCALE	1:100
		PROJECTION	

DRG. No. NPCL-KAGA-WD-ST-DSP-04a	REV. No. R0
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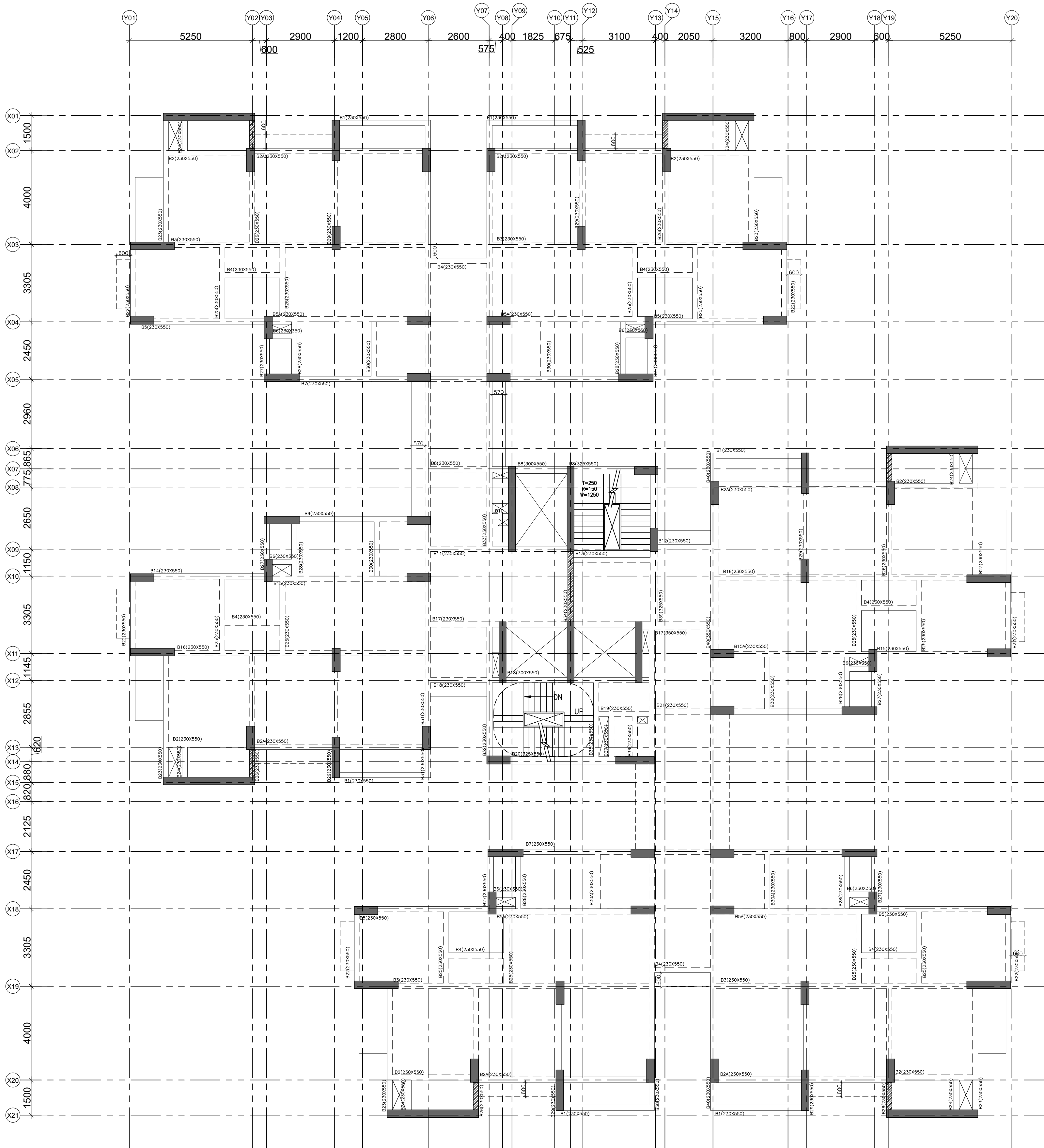
FLOPPY/CD No. FILE NAME: TYPE-D SPECIAL

DRG. TO BE READ IN CONJUNCTION WITH DCN/FCN/ECN, IF ANY.



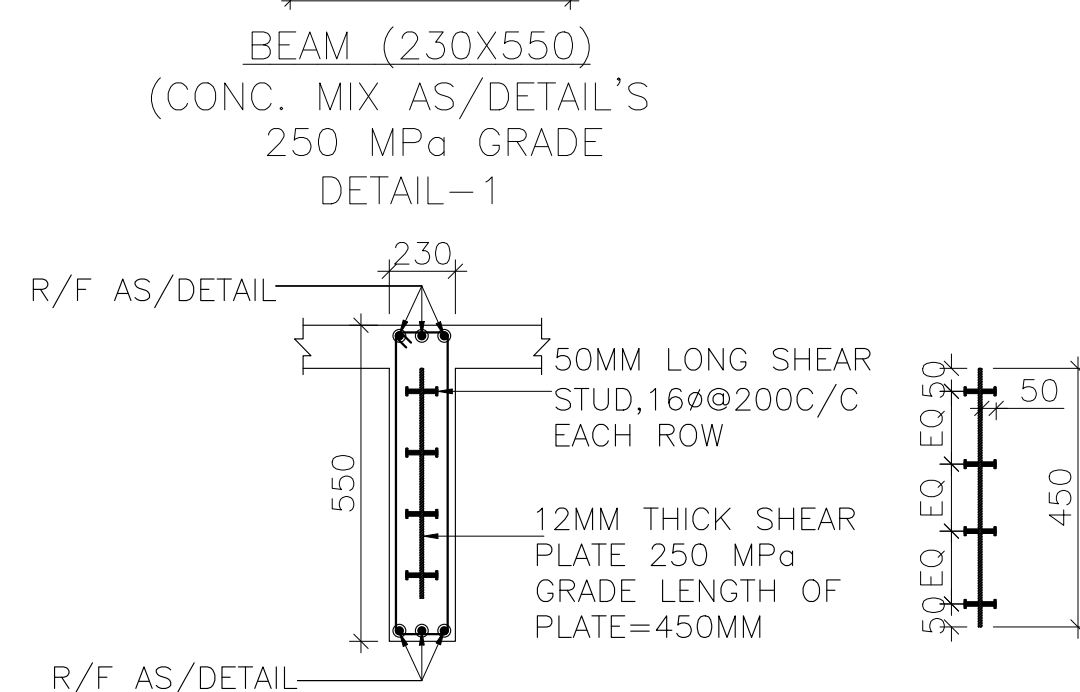
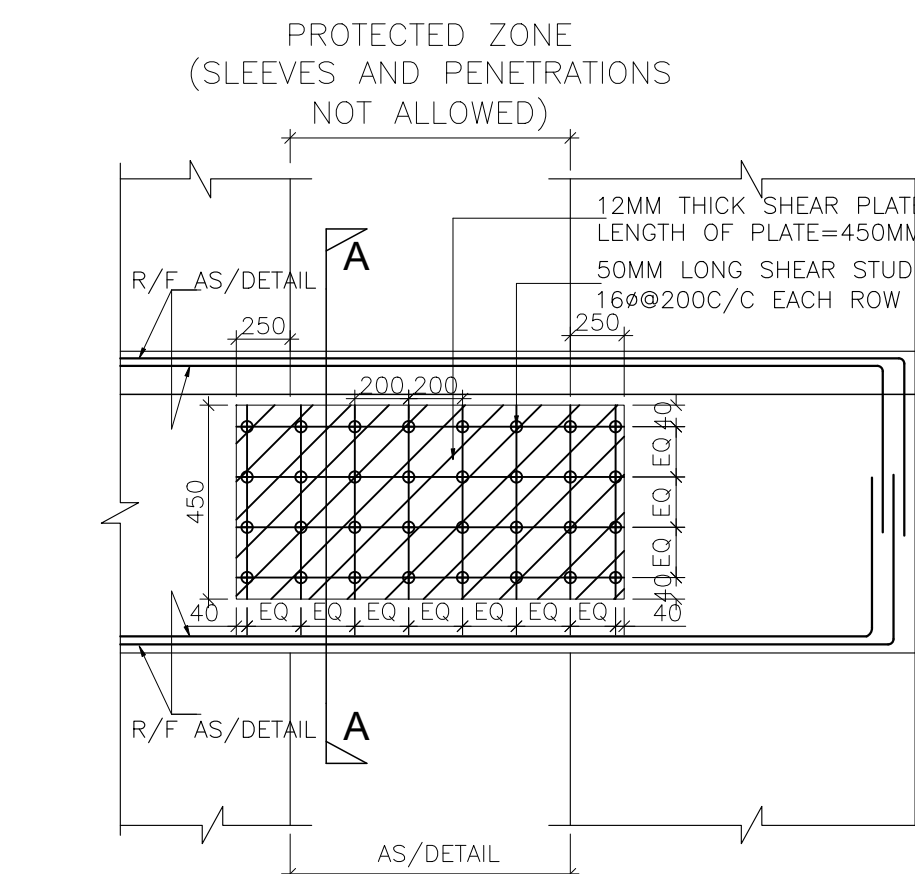
THIS DESIGN AND DRAWING IS THE PROPERTY OF THE NUCLEAR POWER CORPORATION. IT MUST BE RETURNED WITH QUOTATION OR UPON DELIVERY OF MATERIAL / EQUIPMENT TO THE OWNER. EXCEPT BY PERMISSION OF THE OWNER.

DRG. No. NPCL-KAGA-WD-ST-DSP-04b



GROUND TO 7TH FLOOR ROOF SHEAR PLATE PLAN  
ALL BEAM SHALL BE AS/PLAN & SECTION DETAILS.(U.N.O)  
U.N.O.=UNLESS NOTIFIED OTHERWISE

LEGEND	
	BEAMS REQUIRING SHEAR PLATE



SECTION-A-A

- 1). ALL DIMENSIONS ARE IN MILLIMETERS.
- 2). DRAWINGS SHALL NOT BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
- 3). CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCY BEFORE EXECUTION OF WORK, TO THE CONSULTANTS.
- 4). THE STRUCTURE IS DESIGNED CONSIDERING ABOVE INDICATED CONCRETE & REINFORCING STEEL GRID. IT IS CONTRACTORS RESPONSIBILITY TO ACHIEVE THE DESIRE STRENGTH BY STANDARD DESIGN MIX.
- 5). ALL DIMENSIONS /LEVELS & CUT OUT CHECK AS PER ARCHITECTURAL & SERVICES DRG.
- 6). CONC.MIX.
  - a). FOUNDATION:- M35
  - b). COLUMN:- AS/COLUMN SCHEDULE
  - c). BEAM & SLAB:- M30
  - d). OVERHEAD TANK:- M30
- 7). SLAB STEEL EXTEND .3xLENGTH OF PANEL FROM THE FACE OF BEAM.
- 8). ALL RCC WORKS SHOULD BE CARRIED OUT AS PER LAYER SHALL BE AS FOLLOWS:
  - RAFT BOTTOM :60MM
  - RAFT TOP/SIDES :50MM
  - COLUMNS, PEDESTALS :40MM
  - BEAMS :30MM OR DIA OF BAR
  - SLABS :30MM OR DIA OF BAR WHICHEVER IS MORE :30MM
- 9). REINFORCEMENT STEEL SHALL BE HIGH YIELD STRENGTH DEFORMED BARS(#) CONFORMING TO IS:1786 Grade Fe 550D
- 10). NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED AT ANY SECTION.
- 11). STRUCTURAL & ARCHITECTURAL DRAWINGS SHOULD BE FOLLOWED IN RELATION TO EACHOTHER & ANY AMBIGUITY IF FOUND SHOULD BE REPORTED IN WRITING BEFORE EXECUTION.
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- 15). THIS DRG. IS VALID & DESIGN FOR S+12TH STOREY BUILDING ONLY.
- 16). FOLLOW THIS DRG. WITH RESPECT TO OTHER DRG.
- 17). USE COUPLERS FOR OVERLAPPING MORE THAN 20MM DIA. BAR.

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Varanasi-221005

**ASSISTANT PROFESSOR**  
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Planning and Design  
Indian Institute of Technology  
Banaras Hindu University  
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REV.	DATE	REVISION NOTE

**NUCLEAR POWER CORPORATION OF INDIA LIMITED**  
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NAME:	NAME:
DATE:	DATE:

DRAWING NO. (NPCL INTERNAL DWG. NO.) KAIGA-1-6/91214/5014/ST/R0	REVISION NO. R0
--------------------------------------------------------------------	--------------------

ARCHITECT:  
**VYOM**  
ARCHITECTS & ENGINEERS  
E-147, OKHLA PHASE-3, NEW DELHI 110020.  
T: +91 11 2691 0018 / 0019  
E: INFO@VYOM.IN W: WWW.VYOM.IN

TITLE :- GROUND TO 7TH FLOOR ROOF  
SHEAR PLATE PLAN

DES'D. DATE	DR'N. DATE	BS 05/02/2026	REV'D. DATE	BP 05/02/2026
DATE	DATE	DATE	DATE	DATE

PROJECT	KAIGA-5&6 TOWNSHIP	SCALE	1:100
PROJECTION			

DRG. No. NPCL-KAGA-WD-ST-DSP-04b	REV. No. R0
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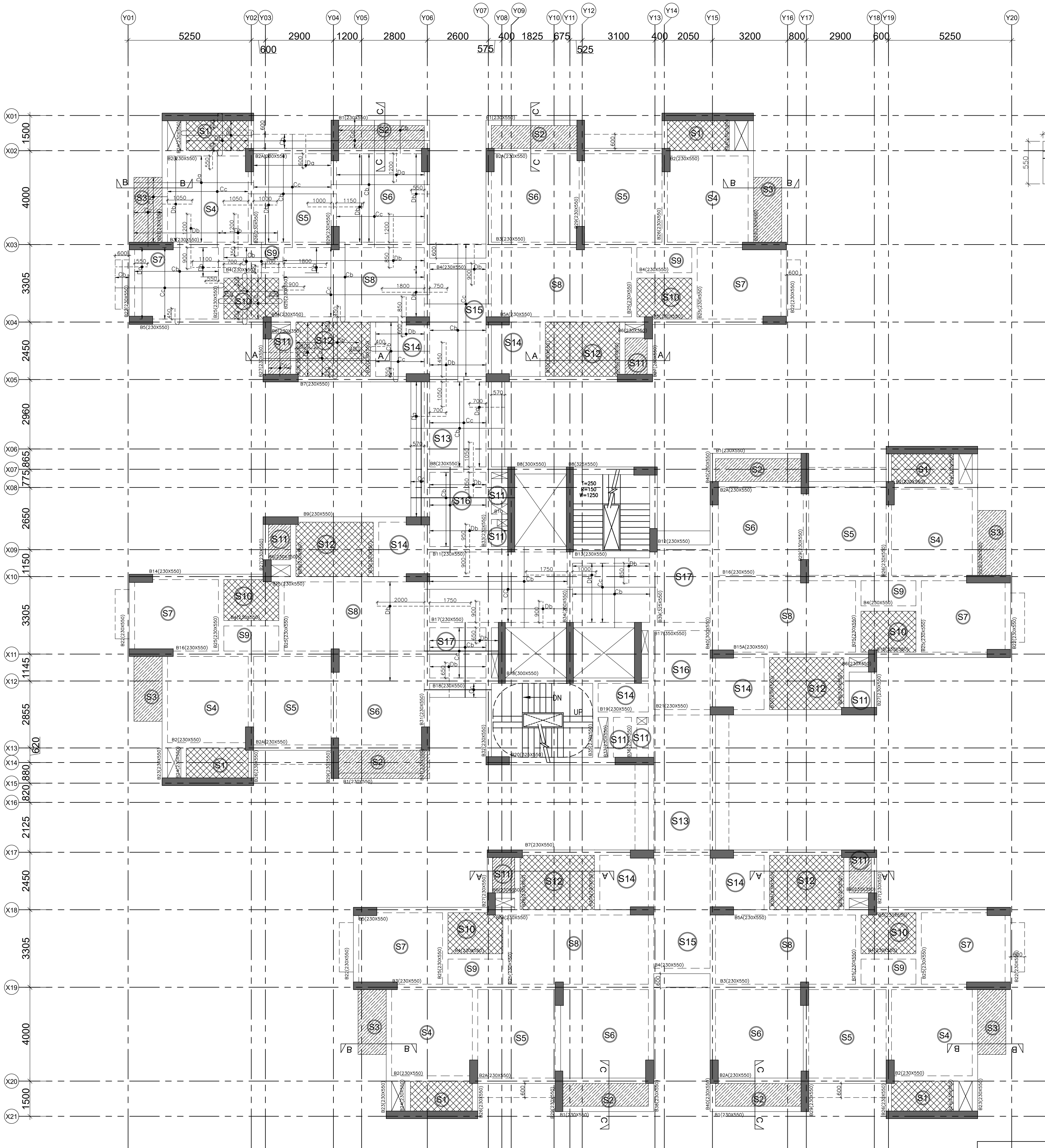
FLOPPY/CD No. FILE NAME: TYPE-D SPECIAL

DRG. TO BE READ IN CONJUNCTION WITH DCN/FCN/ECN, IF ANY.



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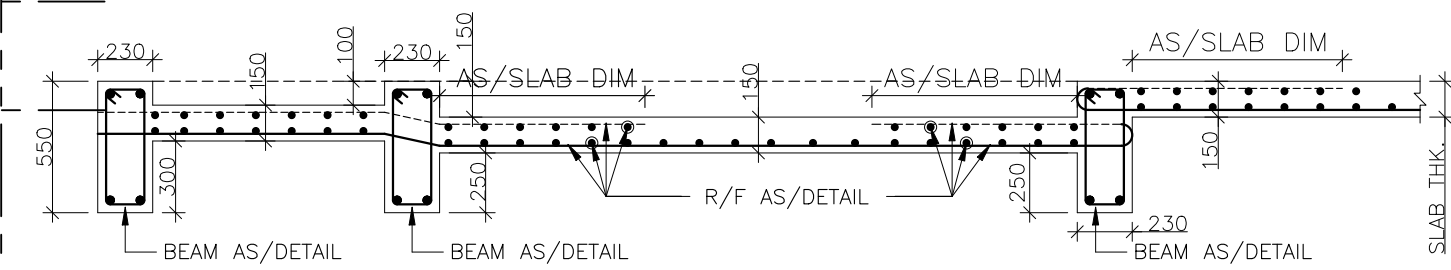
DRG. No. NPCL-KAGA-WD-ST-DSP-05



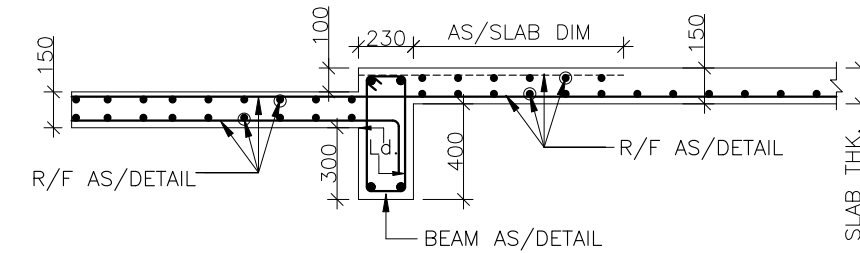
1ST TO 7TH FLOOR ROOF PLAN  
ALL BEAM SHALL BE AS/PLAN & SECTION DETAILS.(U.N.O)  
ALL SLAB SHALL BE 150MM THICK. U.N.O.  
U.N.O.=UNLESS NOTIFIED OTHERWISE

LEGEND	
	SUNKEN 150MM
	SUNKEN 100MM

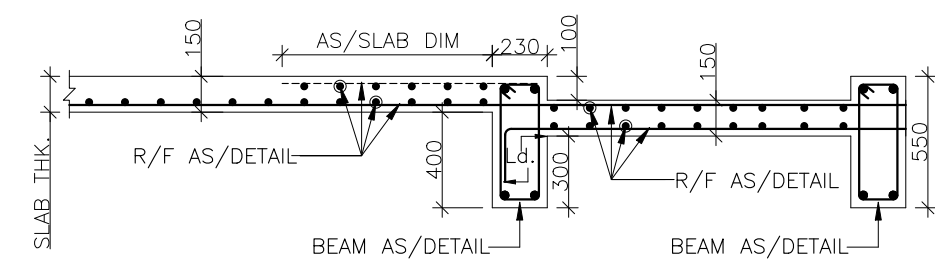
NOTE:- FILLING IN SUNKEN SLAB SHALL BE OF LIGHT-WEIGHT MATERIAL OF DENSITY NOT MORE THAN 800Kg/M<sup>3</sup>



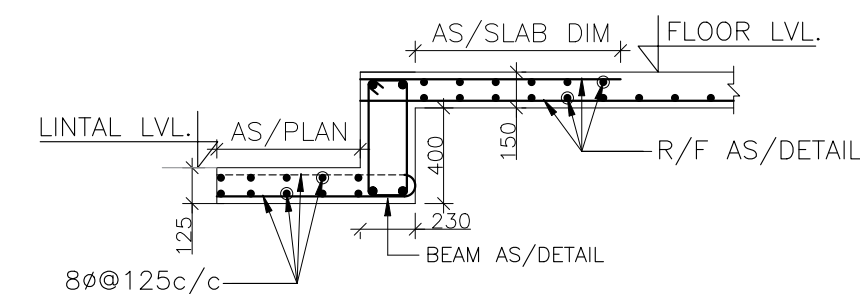
SECTION A-A



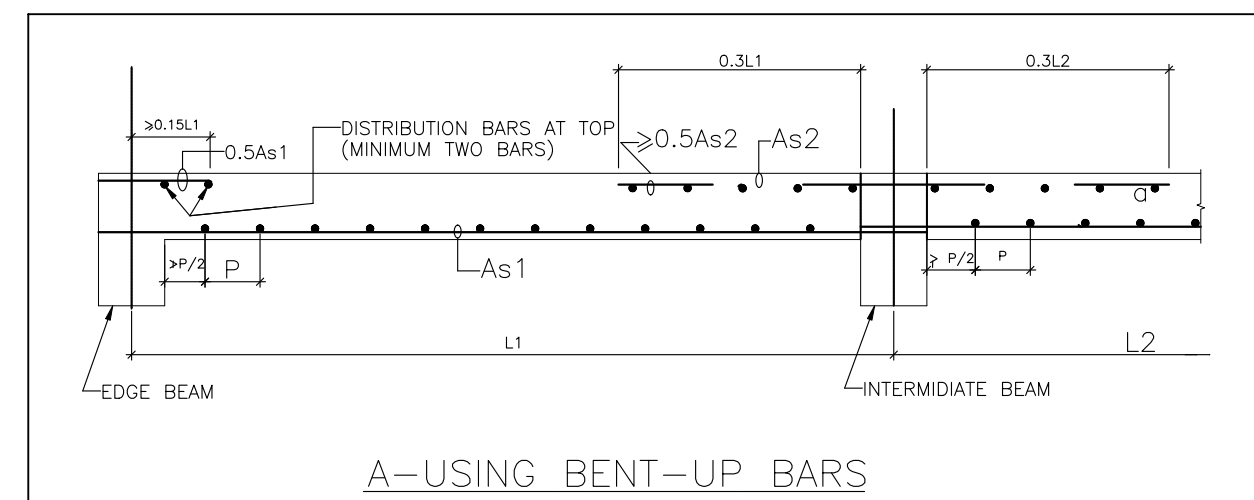
SECTION B-B



SECTION C-C



TYP. SECTION FOR LINTAL SUNSHADE



A-USING BENT-UP BARS

### SLAB REINF. SCHEDULE

MARK	REINFORCEMENT
Cb	8ø@125c/c
Cc	8ø@150c/c
Db	8ø@125c/c
Da	10ø@125c/c
○	INDICATE SLAB THICK.
Ld	50xDIA OF BAR
---	TOP REINF.
---	BOTTOM REINF.
L.V.	LENGTH VARIES
H.B	HIDDEN BEAM
U.N.O.	UN NOTIFIED OBJECT
ALL DIST.	STEEL 8ø@200c/c

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- ALL DIMENSIONS /LEVELS & CUT OUT CHECK AS PER ARCHITECTURAL & SERVICES DRG.
- CONC.MIX.
  - FOUNDATION:- M35
  - COLUMN:- AS/COLUMN SCHEDULE
  - BEAM & SLAB:- M30
  - OVERHEAD TANK:- M30
- SLAB STEEL EXTEND .3xLENGTH OF PANEL FROM THE FACE OF BEAM.
- ALL RCC WORKS SHOULD BE CARRIED OUT AS PER LAYER SHALL BE AS FOLLOWS:
  - RAFT BOTTOM :60MM
  - RAFT TOP/SIDES :50MM
  - COLUMNS, PEDESTALS :40MM
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  - SLABS :30MM OR DIA OF BAR WHICHEVER IS MORE
  - RETAIN. WALL :30MM
- REINFORCEMENT STEEL SHALL BE HIGH YIELD STRENGTH DEFORMED BARS(Ø) CONFORMING TO IS:1786 Grade Fe 550D
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**PROFESSOR**  
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Varanasi-221005

**ASSISTANT PROFESSOR**  
Department of Architecture,  
Planning and Design  
Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005

RO 05.02.2026 ISSUED FOR TENDER

REV. DATE REVISION NOTE



**NUCLEAR POWER CORPORATION OF INDIA LIMITED**  
( A GOVERNMENT OF INDIA ENTERPRISE )

REVIEWED:	APPROVED:
NAME:	NAME:
DATE:	DATE:

DRAWING NO. (NPCL INTERNAL DWG. NO.) KAIGA-1-6/91214/5015/ST/RO REVISION NO. RO

ARCHITECT: **VYOM**  
ARCHITECTS & ENGINEERS  
E-147, OKHLA PHASE-3, NEW DELHI 110020.  
T: +91 11 2691 0018 / 0019  
E: INFO@VYOM.IN WWW.VYOM.IN

TITLE :- 1ST TO 7TH FLOOR ROOF SLAB DETAILS

DES'D. DATE	DR'N. DATE	BS 05/02/2026	REV'D. DATE	BP 05/02/2026
DES. CHK'D. DATE	DRG. CHK'D. DATE	SM 05/02/2026	APP'D. DATE	VB 05/02/2026

PROJECT KAIGA-5&6 TOWNSHIP  
SCALE 1:100  
PROJECTION

DRG. No. NPCL-KAGA-WD-ST-DSP-05  
FLOPPY/CD No. FILE NAME: TYPE-D SPECIAL  
REV. No. RO

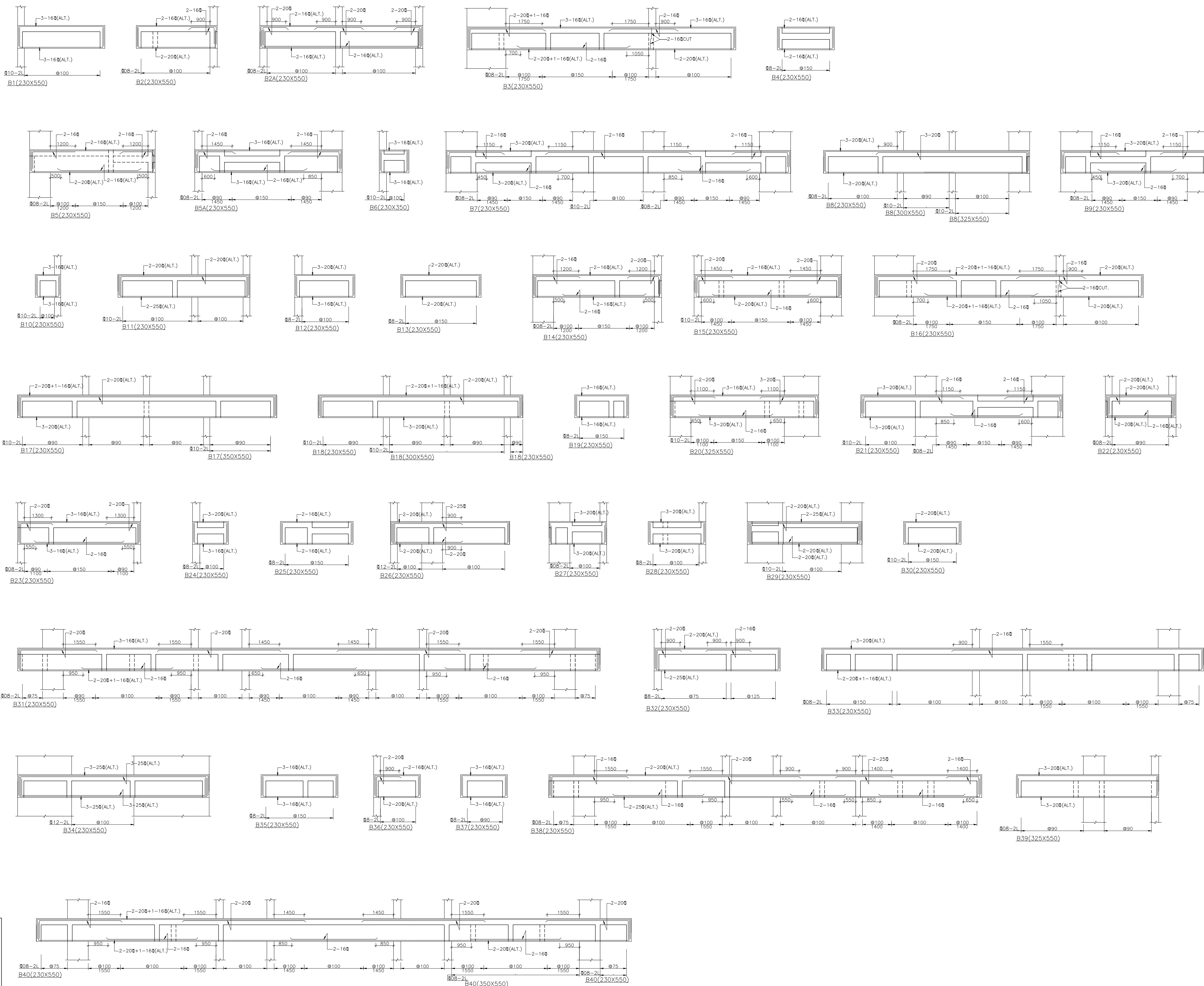
DRG. TO BE READ IN CONJUNCTION WITH DCN/FCN/ECN, IF ANY.



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A1

DRG. No. NPCL-KAGA-WD-ST-DSP-05a



- 1). ALL DIMENSIONS ARE IN MILLIMETERS.
- 2). DRAWINGS SHALL NOT BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
- 3). CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCY BEFORE EXECUTION OF WORK, TO THE CONSULTANTS.
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- 5). ALL DIMENSIONS /LEVELS & CUT OUT CHECK AS PER ARCHITECTURAL & SERVICES DRG.
- 6). CONC.MIX.
  - a). FOUNDATION:- M35
  - b). COLUMN:- AS/COLUMN SCHEDULE
  - c). BEAM & SLAB:- M30
  - d). OVERHEAD TANK:- M30
- 7). SLAB STEEL EXTEND .3xLENGTH OF PANEL FROM THE FACE OF BEAM.
- 8). ALL RCC WORKS SHOULD BE CARRIED OUT AS PER LAYER SHALL BE AS FOLLOWS:
  - RAFT BOTTOM :60MM
  - RAFT TOP/SIDES :50MM
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  - BEAMS :30MM OR DIA OF BAR
  - SLABS :30MM OR DIA OF BAR WHICHEVER IS MORE
- 9). RETAIN. WALL
- 9). REINFORCEMENT STEEL SHALL BE HIGH YIELD STRENGTH DEFORMED BARS(#) CONFORMING TO IS:1786 Grade Fe 550D
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- 16). FOLLOW THIS DRG. WITH RESPECT TO OTHER DRG.
- 17). USE COUPLERS FOR OVERLAPPING MORE THAN 20MM DIA. BAR.

*Phkman*

**PROFESSOR**  
Department of Civil Engineering  
Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005

*S. K. Singh*

**ASSISTANT PROFESSOR**  
Department of Architecture,  
Planning and Design  
Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005

RO	05.02.2026	ISSUED FOR TENDER
REV.	DATE	REVISION NOTE



NUCLEAR POWER CORPORATION OF INDIA LIMITED  
( A GOVERNMENT OF INDIA ENTERPRISE )

REVIEWED:	APPROVED:
NAME:	NAME:
DATE:	DATE:

DRAWING NO. (NPCIL INTERNAL DWG. NO.) KAIGA-1-6/91214/5016/ST/R0	REVISION NO. R0
---------------------------------------------------------------------	--------------------

ARCHITECT:

**VYOM**  
ARCHITECTS & ENGINEERS  
E-147, OKHLA PHASE-3, NEW DELHI 110020.  
T: +91 11 2691 0018 / 0019  
E: INFO@VYOM.IN W: WWW.VYOM.IN

TITLE :- 1ST TO 7TH FLOOR ROOF BEAM DETAILS

DES'D. DATE	DR'N. DATE	BS 05/02/2026	REV'D. DATE	BP 05/02/2026
DES. CHK'D. DATE	DRG. CHK'D. DATE	SM 05/02/2026	APP'D. DATE	VB 05/02/2026

PROJECT	KAIGA-5&6 TOWNSHIP	SCALE	1:100
		PROJECTION	

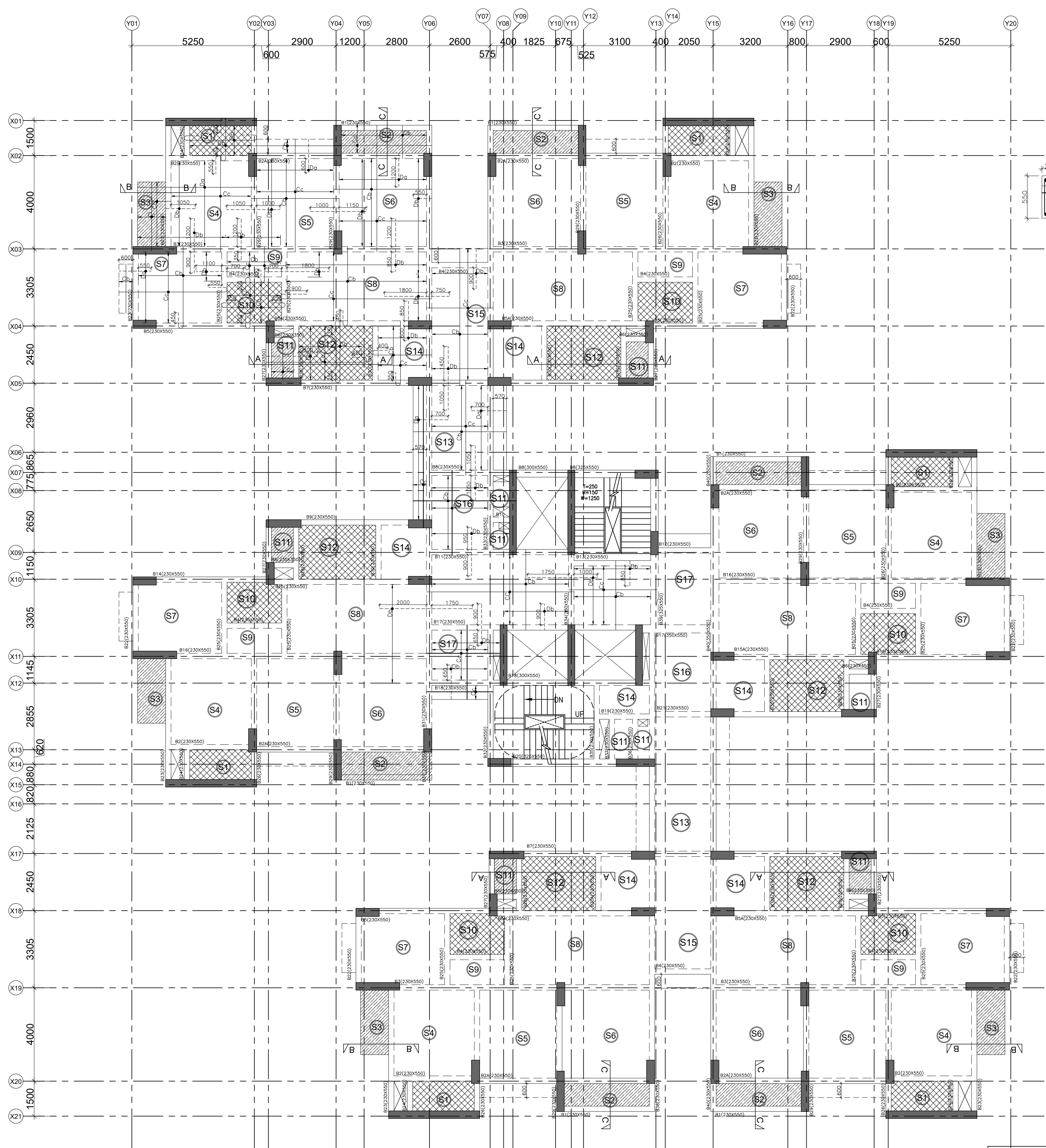
DRG. No. NPCL-KAGA-WD-ST-DSP-05a	REV. No. R0
FLOPPY/CD No.	FILE NAME: TYPE-D SPECIAL

DRG. TO BE READ IN CONJUNCTION WITH DCN/FCN/ECN, IF ANY.

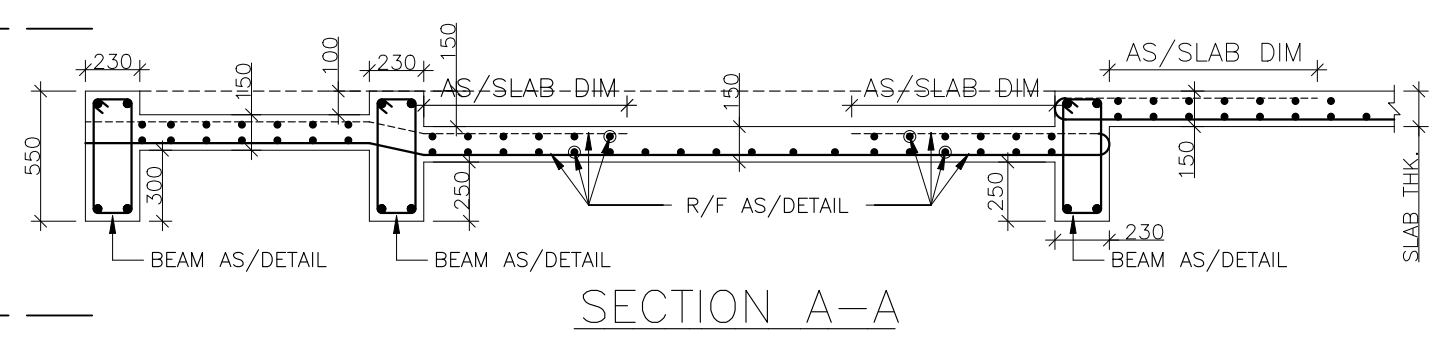


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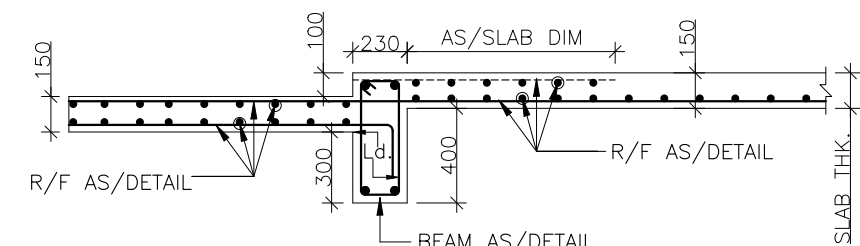
DRG. No. NPCL-KAGA-WD-ST-DSP-06



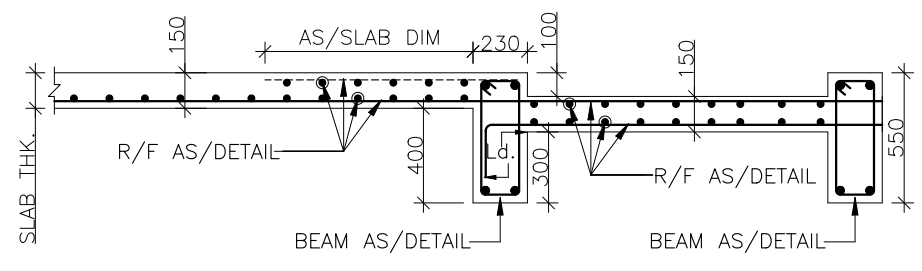
NOTE:- FILLING IN SUNKEN SLAB SHALL BE OF LIGHT-WEIGHT MATERIAL OF DENSITY NOT MORE THAN 800Kg/m³



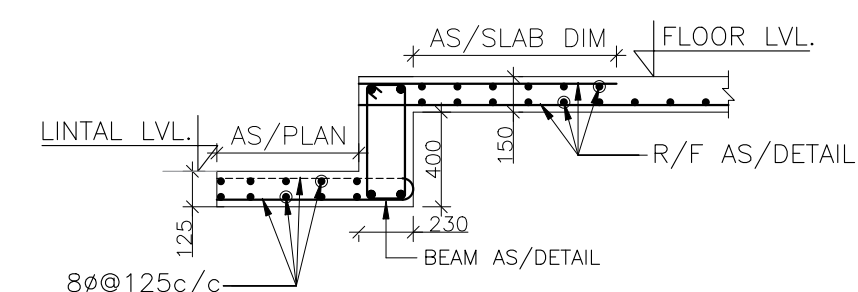
SECTION A-A



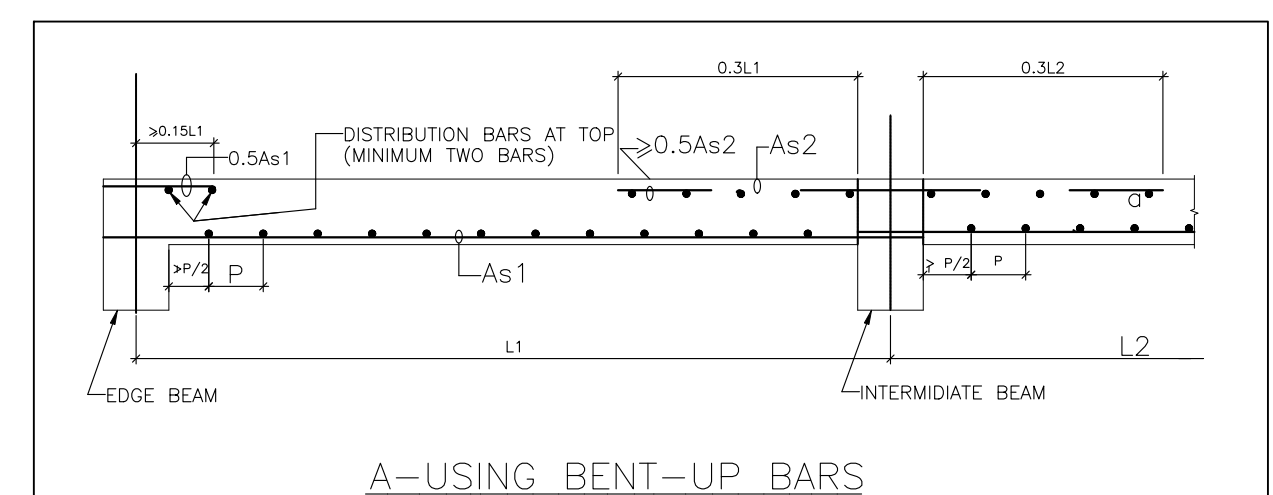
SECTION B-B



SECTION C-C



TYP. SECTION FOR LINTAL SUNSHADE



A-USING BENT-UP BARS

SLAB REINF. SCHEDULE

MARK	REINFORCEMENT
Cb	8@125c/c
Cc	8@150c/c
Db	8@125c/c
Da	10@125c/c
Ld	50x DIA OF BAR
---	TOP REINF.
---	BOTTOM REINF.
L.V.	LENGTH VARIES
H.B	HIDDEN BEAM
U.N.O.	UN NOTIFIED OBJECT
ALL DIST.	STEEL 8@200c/c

LEGEND	
	SUNKEN 150MM
	SUNKEN 100MM

8TH TO 11TH FLOOR ROOF PLAN  
ALL BEAM SHALL BE AS/PLAN & SECTION DETAILS.(U.N.O)  
ALL SLAB SHALL BE 150MM THICK. U.N.O.  
U.N.O.=UNLESS NOTIFIED OTHERWISE

- ALL DIMENSIONS ARE IN MILLIMETERS.
- DRAWINGS SHALL NOT BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
- CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCY BEFORE EXECUTION OF WORK, TO THE CONSULTANTS.
- THE STRUCTURE IS DESIGNED CONSIDERING ABOVE INDICATED CONCRETE & REINFORCING STEEL GRID. IT IS CONTRACTORS RESPONSIBILITY TO ACHIEVE THE DESIRE STRENGTH BY STANDARD DESIGN MIX.
- ALL DIMENSIONS /LEVELS & CUT OUT CHECK AS PER ARCHITECTURAL & SERVICES DRG.
- CONC.MIX.
  - FOUNDATION:- M35
  - COLUMN:- AS/COLUMN SCHEDULE
  - BEAM & SLAB:- M30
  - OVERHEAD TANK:- M30
- SLAB STEEL EXTEND .3xLENGTH OF PANEL FROM THE FACE OF BEAM.
- ALL RCC WORKS SHOULD BE CARRIED OUT AS PER LAYER SHALL BE AS FOLLOWS:
  - RAFT BOTTOM :60MM
  - RAFT TOP/SIDES :50MM
  - COLUMNS, PEDESTALS :40MM
  - BEAMS :30MM OR DIA OF BAR
  - SLABS :30MM OR DIA OF BAR WHICHEVER IS MORE
- RETAIN. WALL
- REINFORCEMENT STEEL SHALL BE HIGH YIELD STRENGTH DEFORMED BARS(Ø) CONFORMING TO IS:1786 Grade Fe 550D
- NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED AT ANY SECTION.
- STRUCTURAL & ARCHITECTURAL DRAWINGS SHOULD BE FOLLOWED IN RELATION TO EACHOTHER & ANY AMBIGUITY IF FOUND SHOULD BE REPORTED IN WRITING BEFORE EXECUTION.
- STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR CENTRING, CURING, FABRICATION, WELDING, MISUNDERSTANDING OF DRGS. & QUALITY OF MATERIALS.
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- THIS DRG. IS VALID & DESIGN FOR S+12TH STOREY BUILDING ONLY.
- FOLLOW THIS DRG. WITH RESPECT TO OTHER DRG.
- USE COUPLERS FOR OVERLAPPING MORE THAN 20MM DIA. BAR.

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Department of Civil Engineering  
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Varanasi-221005

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**NUCLEAR POWER CORPORATION OF INDIA LIMITED**  
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DRAWING NO. (NPCIL INTERNAL DWG. NO.) KAIGA-1-6/91214/5017/ST/R0	REVISION NO. R0
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ARCHITECT:  
**VYOM**  
ARCHITECTS & ENGINEERS  
E-147, OKHLA PHASE-3, NEW DELHI 110020.  
T: +91 11 2691 0018 / 0019  
E: INFO@VYOM.IN WWW.VYOM.IN

TITLE :- 8TH TO 11TH FLOOR ROOF  
SLAB DETAILS

DES'D. DATE	DR'N. DATE	BS 05/02/2026	REV'D. DATE	BP 05/02/2026
DES. CHK'D. DATE	DRG. CHK'D. DATE	SM 05/02/2026	APP'D. DATE	VB 05/02/2026

PROJECT	KAIGA-5&6 TOWNSHIP	SCALE	1:100
PROJECTION			

DRG. No. NPCL-KAGA-WD-ST-DSP-06	REV. No. R0
FLOPPY/CD No.	FILE NAME: TYPE-D SPECIAL

DRG. TO BE READ IN CONJUNCTION WITH DCN/FCN/ECN, IF ANY.



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PRG. No. NPCL-KAGA-WD-ST-DSP-6a

A1

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B

C

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E

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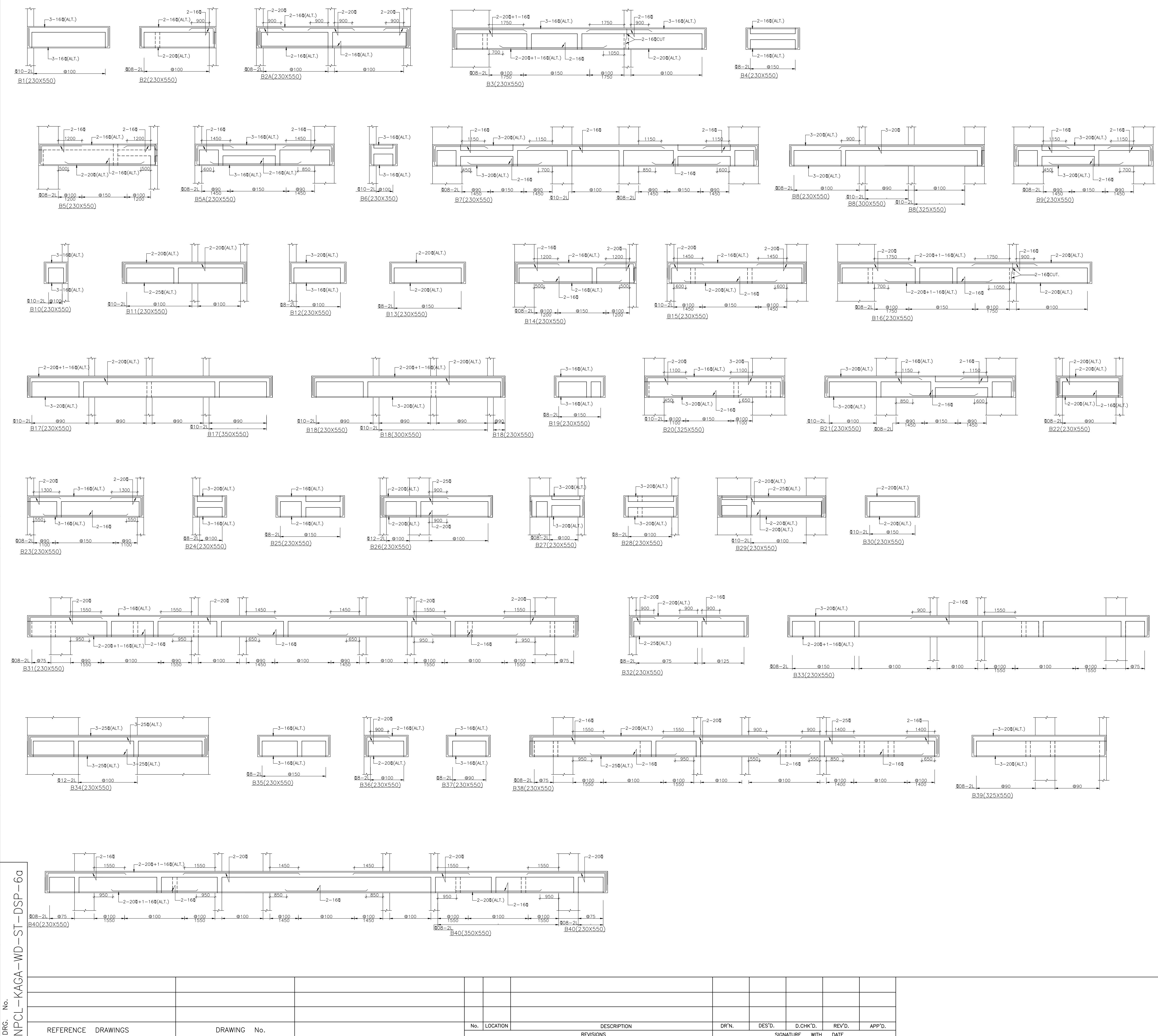
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4

3

2

1




- 1). ALL DIMENSIONS ARE IN MILLIMETERS.
- 2). DRAWINGS SHALL NOT BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
- 3). CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCY BEFORE EXECUTION OF WORK, TO THE CONSULTANTS.
- 4). THE STRUCTURE IS DESIGNED CONSIDERING ABOVE INDICATED CONCRETE & REINFORCING STEEL GRID. IT IS CONTRACTORS RESPONSIBILITY TO ACHIEVE THE DESIRE STRENGTH BY STANDARD DESIGN MIX.
- 5). ALL DIMENSIONS /LEVELS & CUT OUT CHECK AS PER ARCHITECTURAL & SERVICES DRG.
- 6). CONC.MIX.
  - a). FOUNDATION:- M35
  - b). COLUMN:- AS/COLUMN SCHEDULE
  - c). BEAM & SLAB:- M30
  - d). OVERHEAD TANK:- M30
- 7). SLAB STEEL EXTEND .3xLENGTH OF PANEL FROM THE FACE OF BEAM.
- 8). ALL RCC WORKS SHOULD BE CARRIED OUT AS PER LAYER SHALL BE AS FOLLOWS:
  - RAFT BOTTOM :60MM
  - RAFT TOP/SIDES :50MM
  - COLUMNS, PEDESTALS :40MM
  - BEAMS :30MM OR DIA OF BAR
  - SLABS :30MM OR DIA OF BAR WHICHEVER IS MORE
- 9). RETAIN. WALL
- 9). REINFORCEMENT STEEL SHALL BE HIGH YIELD STRENGTH DEFORMED BARS(#) CONFORMING TO IS:1786 Grade Fe 550D
- 10). NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED AT ANY SECTION.
- 11). STRUCTURAL & ARCHITECTURAL DRAWINGS SHOULD BE FOLLOWED IN RELATION TO EACHOTHER & ANY AMBIGUITY IF FOUND SHOULD BE REPORTED IN WRITING BEFORE EXECUTION.
- 12). STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR CENTRING, CURING, FABRICATION, WELDING, MISUNDERSTANDING OF DRGS. & QUALITY OF MATERIALS.
- 13). PROVIDE DOWELS FOR ANY ARCHITECTURAL FEATURES NOT SHOWN IN THIS DRAWING AS PER ARCHITECTURAL DRAWINGS.
- 14). STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR ANY STRUCTURAL PROBLEM/FAILURE ARISING DUE TO ANY UNAUTHORIZED DRILLING, CUTTING, BREAKING ETC. IN ANY RCC MEMBER FOR ANY PURPOSE WHATSOEVER (AC PIPING, ELECTRICAL, FIRE, PLUMBING ETC.)
- 15). THIS DRG. IS VALID & DESIGN FOR S+12TH STOREY BUILDING ONLY.
- 16). FOLLOW THIS DRG. WITH RESPECT TO OTHER DRG.
- 17). USE COUPLERS FOR OVERLAPPING MORE THAN 20MM DIA. BAR.

**PROFESSOR**  
Department of Civil Engineering  
Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005

**ASSISTANT PROFESSOR**  
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Indian Institute of Technology  
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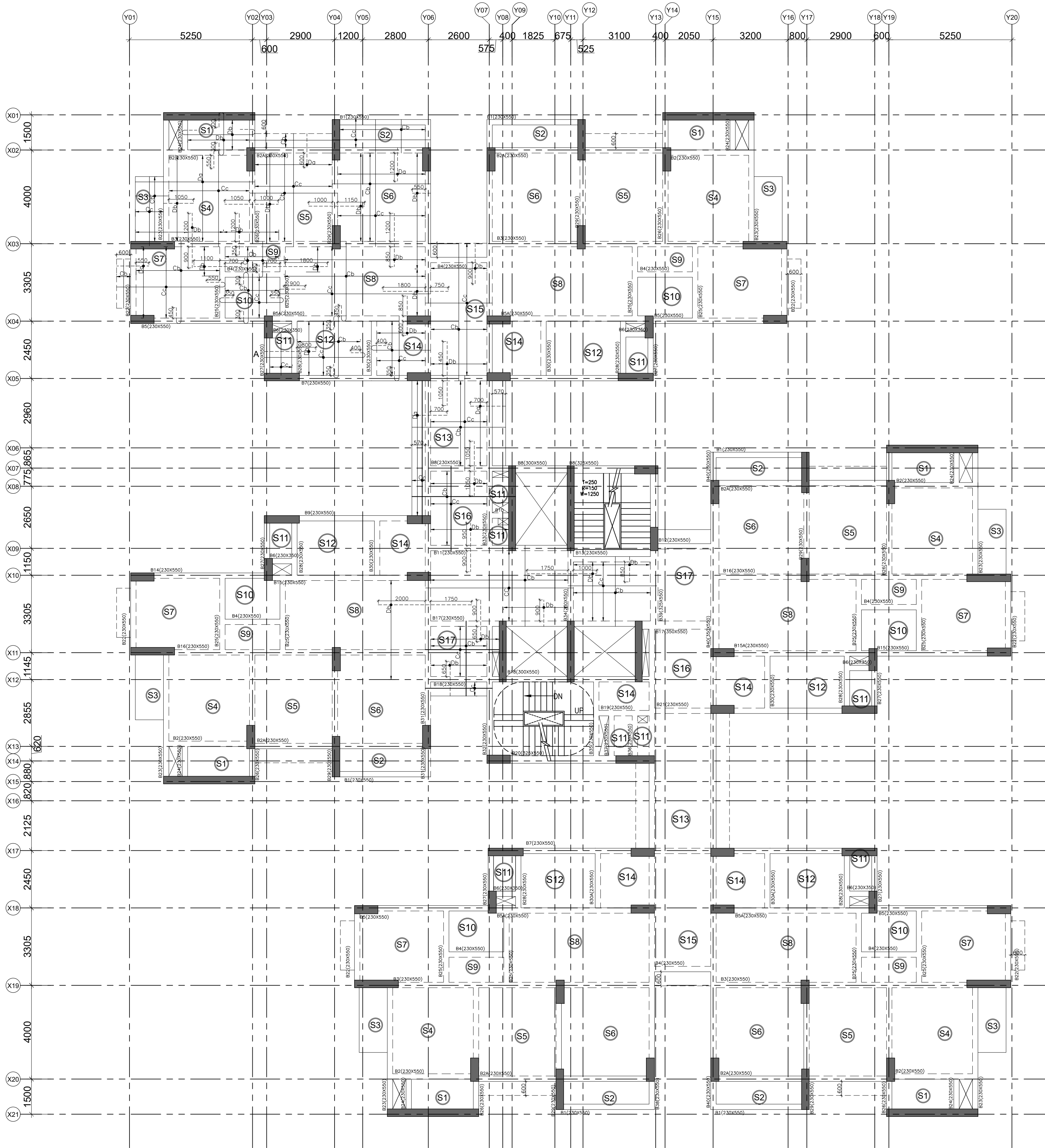
RO	05.02.2026	ISSUED FOR TENDER
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 <b>NUCLEAR POWER CORPORATION OF INDIA LIMITED</b> ( A GOVERNMENT OF INDIA ENTERPRISE )			
REVIEWED:		APPROVED:	
NAME:		NAME:	
DATE:		DATE:	
DRAWING NO. (NPCL INTERNAL DWG. NO.) KAIGA-1-6/91214/5018/ST/RO		REVISION NO. RO	
ARCHITECT: <b>VYOM</b> ARCHITECTS & ENGINEERS E-147, OKHLA PHASE-3, NEW DELHI 110020. T: +91 11 2691 0018 / 0019 E: INFO@VYOM.IN W: WWW.VYOM.IN			
TITLE :- <b>8TH TO 11TH FLOOR ROOF BEAM DETAILS</b>			
DES'D. DATE	DR'N. DATE	BS 05/02/2026	REV'D. BP 05/02/2026
DES. CHK'D. DATE	DRG. CHK'D. DATE	SM 05/02/2026	APP'D. VB 05/02/2026
PROJECT KAIGA-5&6 TOWNSHIP		SCALE 1:100	
DRG. No. NPCL-KAGA-WD-ST-DSP-06a		REV. No. RO	
FLOPPY/CD No.		FILE NAME: TYPE-D SPECIAL	
DRG. TO BE READ IN CONJUNCTION WITH DCN/FCN/ECN, IF ANY.			

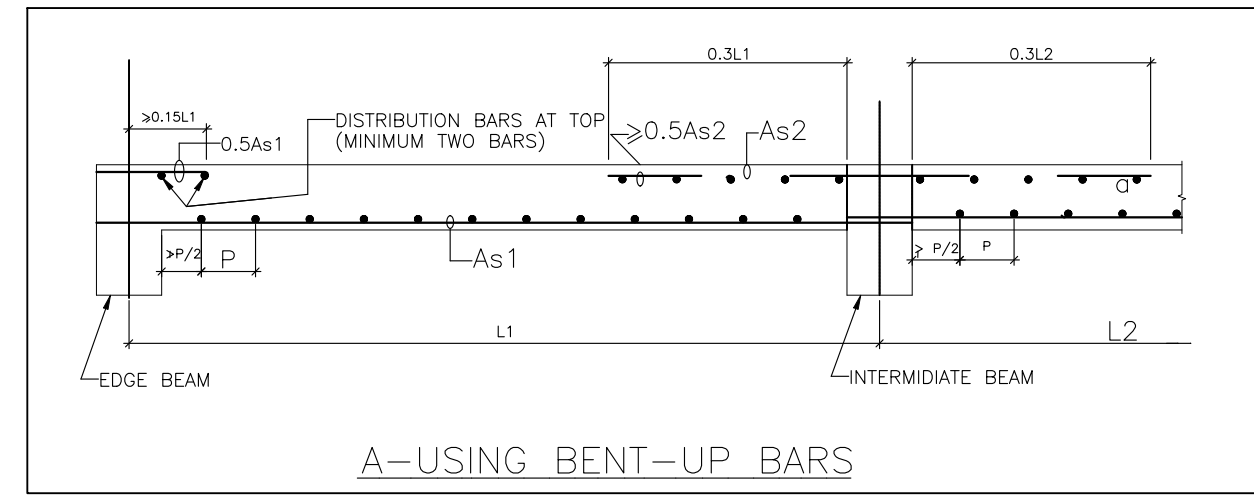


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DRG. No. NPCL-KAGA-WD-ST-DSP-07



TERRACE LVL. FLOOR PLAN  
ALL BEAM SHALL BE AS/PLAN & SECTION DETAILS.(U.N.O)  
ALL SLAB SHALL BE 150MM THICK. U.N.O.  
U.N.O.=UNLESS NOTIFIED OTHERWISE



#### SLAB REINF. SCHEDULE

MARK	REINFORCEMENT
Cb	8φ@125c/c
Cc	8φ@150c/c
Db	8φ@125c/c
Da	10φ@125c/c
○	INDICATE SLAB THICK.
Ld	50xDIA OF BAR
---	TOP REINF.
---	BOTTOM REINF.
L.V.	LENGTH VARIES
H.B	HIDDEN BEAM
U.N.O.	UN NOTIFIED OBJECT
ALL DIST.	STEEL 8φ@200c/c

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- CONC.MIX.
  - FOUNDATION:- M35
  - COLUMN:- AS/COLUMN SCHEDULE
  - BEAM & SLAB:- M30
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Banaras Hindu University  
Varanasi-221005

**ASSISTANT PROFESSOR**  
Department of Architecture,  
Planning and Design  
Indian Institute of Technology  
Banaras Hindu University  
Varanasi-221005

RO 05.02.2026 ISSUED FOR TENDER

REV. DATE REVISION NOTE



NUCLEAR POWER CORPORATION OF INDIA LIMITED  
( A GOVERNMENT OF INDIA ENTERPRISE )

REVIEWED: APPROVED:  
NAME: NAME:  
DATE: DATE:

DRAWING NO. (NPCIL INTERNAL DWG. NO.) KAIGA-1-6/91214/5019/ST/RO REVISION NO. RO

ARCHITECT: **VYOM**  
ARCHITECTS & ENGINEERS  
E-147, OKHLA PHASE-3, NEW DELHI 110020.  
T: +91 11 2691 0018 / 0019  
E: INFO@VYOM.IN W: WWW.VYOM.IN

TITLE :- TERRACE LVL. FLOOR SLAB DETAILS

DES'D. DATE 05/02/2026 DR'N. DATE 05/02/2026 BS DATE 05/02/2026 REV'D. DATE 05/02/2026 BP DATE 05/02/2026  
DES. CHK'D. DATE 05/02/2026 DRG. CHK'D. DATE 05/02/2026 SM DATE 05/02/2026 APP'D. DATE 05/02/2026 VB DATE 05/02/2026

PROJECT KAIGA-5&6 TOWNSHIP SCALE 1:100  
PROJECTION

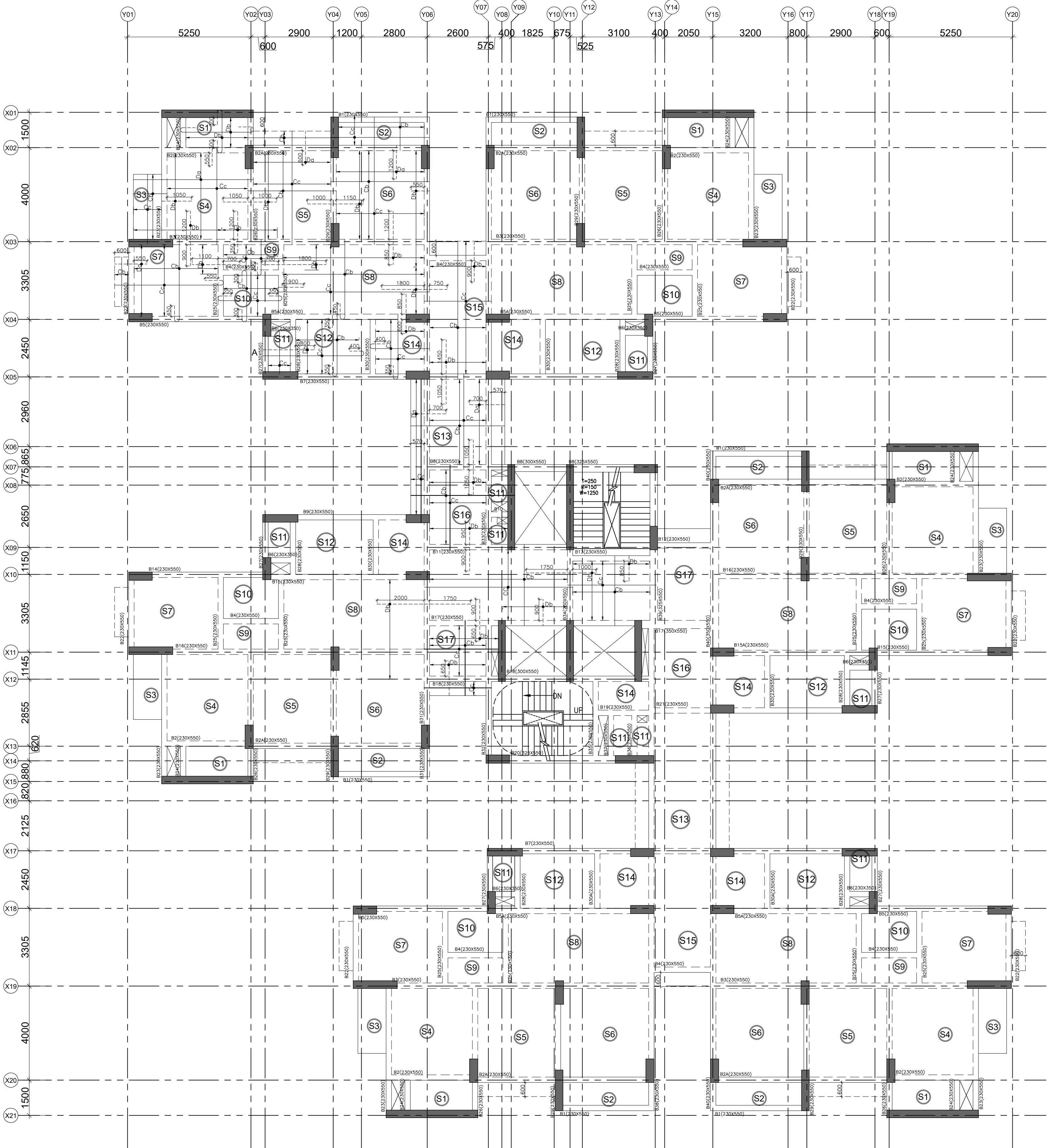
DRG. No. NPCL-KAGA-WD-ST-DSP-07 REV. No. RO  
FLOPPY/CD No. FILE NAME: TYPE-D SPECIAL

DRG. TO BE READ IN CONJUNCTION WITH DCN/FCN/ECON. IF ANY.

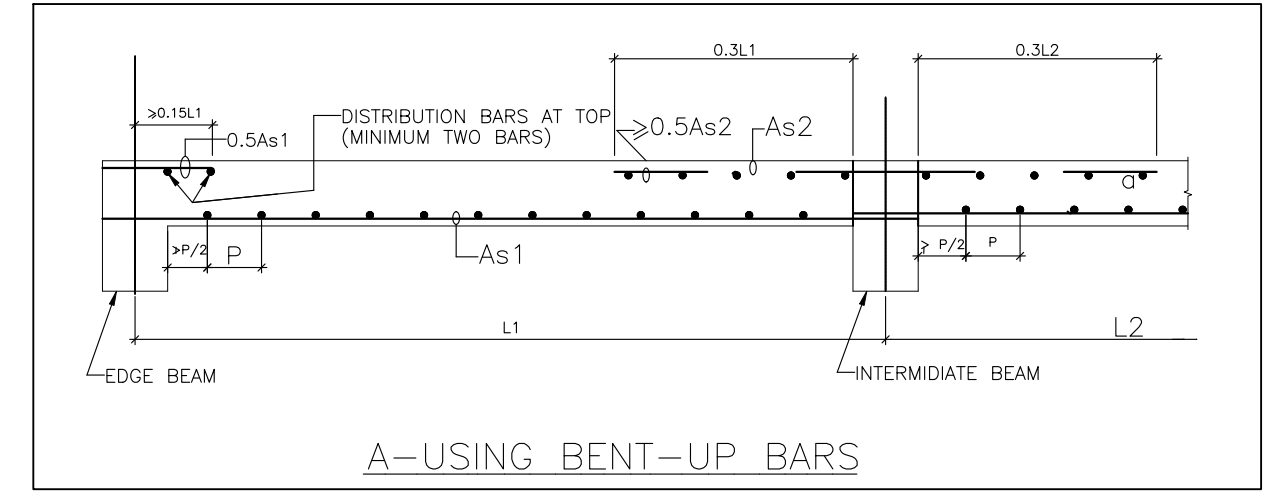


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DRG. No. NPCL-KAGA-WD-ST-DSP-07a



TERRACE LVL. FLOOR PLAN  
ALL BEAM SHALL BE AS/PLAN & SECTION DETAILS.(U.N.O)  
ALL SLAB SHALL BE 150MM THICK. U.N.O.  
U.N.O.=UNLESS NOTIFIED OTHERWISE



A-USING BENT-UP BARS

SLAB REINF. SCHEDULE

MARK	REINFORCEMENT
Cb	8ø@125c/c
Cc	8ø@150c/c
Db	8ø@125c/c
Da	10ø@125c/c
○	INDICATE SLAB THICK.
Ld	50xDIA OF BAR
---	TOP REINF.
---	BOTTOM REINF.
L.V.	LENGTH VARIES
H.B	HIDDEN BEAM
U.N.O.	UN NOTIFIED OBJECT
ALL DIST.	STEEL 8ø@200c/c

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- CONC.MIX.
  - FOUNDATION:- M35
  - COLUMN:- AS/COLUMN SCHEDULE
  - BEAM & SLAB:- M30
  - OVERHEAD TANK:- M30
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TITLE :-  
TERRACE LVL. BEAM DETAILS

DES'D. DATE	DR'N. DATE	BS 05/02/2026	REV'D. DATE	BP 05/02/2026
DES. CHK'D. DATE	DRG. CHK'D. DATE	SM 05/02/2026	APP'D. DATE	VB 05/02/2026

PROJECT KAIGA-5&6 TOWNSHIP	SCALE 1:100
PROJECTION First Angle	

DRG. No. NPCL-KAGA-WD-ST-DSP-07a	REV. No. RO
FLOPPY/CD No.	FILE NAME: TYPE-D SPECIAL

DRG. TO BE READ IN CONJUNCTION WITH DCN/FCN/ECON. IF ANY.