



राष्ट्रीय प्रौद्योगिकी संस्थान
NATIONAL INSTITUTE OF TECHNOLOGY
राउरकेला ROURKELA- 769008, ओडिशा ODISHA



Date: 22/02/2026

No

To

Commissioner
Brahmapur Municipal Corporation, Berhampur
Berhampur, Odisha

Sub :- Vetting of structural design for 2B+G+5 and drawings for proposed construction of 2B+G+3 BeMC Giri Market Shopping Center cum Vending Zone, Berhampur, Odisha.

Sir,

The vetting of structural design for 2B+G+5 and drawings for proposed construction of 2B+G+3 BeMC Giri Market Shopping Center cum Vending Zone, Berhampur, Odisha are been thoroughly checked and found ok as per the relevant code provisions to the best of my knowledge and vetted by me.

NIT Rourkela will not be responsible for any kind of legal liability including but not limited to any loss, injury, claim or damage of any kind whatsoever resulting from and/or arising out of actual execution of the building of any kind resulting from further course of execution of construction of this building. The execution of the work should be done as per given design and drawings with proper quality control of materials as per provisions of relevant standards.

Shishir Kr. Sahu 22/2/2026

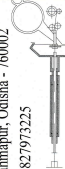
(Prof. Shishir Kr. Sahu)

Dr. Shishir Kumar Sahu
Professor, Deptt. of Civil Engineering
National Institute of Technology
Rourkela-769008, Odisha, India

SAAJAN ARCHITECTS

Architecture / Interiors / Project Management

Door No. ODBR-016-210-174, 2nd Floor,
Parkstreet, Brahmapur, Odisha - 760002
Phone:- +91-7827973225



STRUCTURAL CONSULTANT :-



STR. ENGG. :- ER. MANAS RANJAN SABAR

CLIENT :-



BERHAMPUR MUNICIPAL
CORPORATION, BERHAMPUR,
ODISHA

PROJECT :-

BaMC GIRI MARKET COMPLEX
AND VENDING ZONE

REVISION :-

Sl. No	Date	Revision

DRG / SHEET TITLE :-

PROPOSED SITE LAYOUT

SHEET -A0, SCALE- 1:200

Date :- 22.01.2026

Drawn By :- Ar. Shubhra Saloni

Er. Ranjan Mahapatra

Checked By :- Ar. Saajan Varanasi

NORTH INDICATOR :-



GENERAL NOTES :-

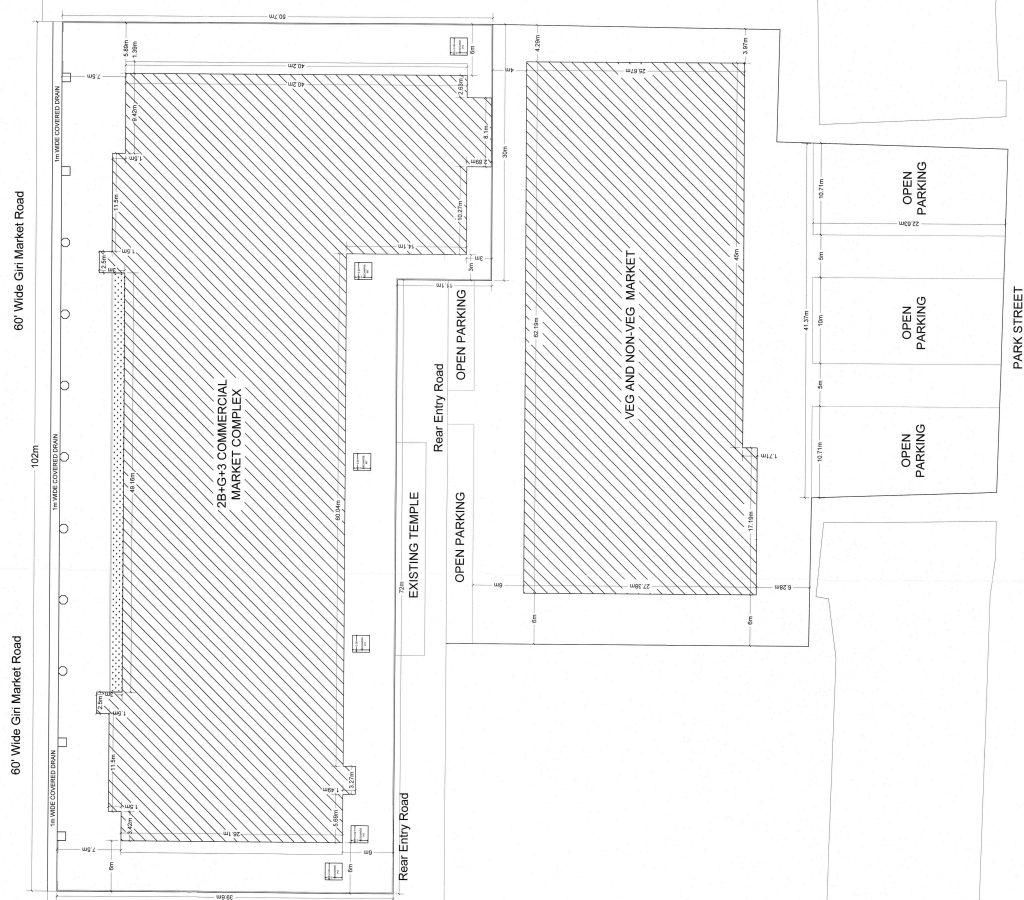
1. ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS ARE IN METERS.
3. ALL DIMENSIONS ARE TO BE READ AND NOT TO BE MEASURED OR CALCULATED.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DETAILS & SPECIFICATIONS & SITE CONDITIONS & SHALL REPORT ANY ERROR, OMISSION AND/OR AMALITY TO THE ARCHITECT BEFORE COMMENCEMENT OF CONSTRUCTION.
5. FOR CONSTRUCTION PURPOSES, THE DIMENSIONS SHALL NOT BE MEASURED DIRECTLY ON THE DRAWING. THE DIMENSIONS SHALL NOT BE MEASURED UNTIL THEY ARE ISSUED FOR CONSTRUCTION.
6. THIS DRAWING IS THE PROPERTY OF THE ARCHITECT AND IT SHALL BE KEPT IN THE ARCHITECT'S OFFICE. NO REPRODUCTION OR PURCHASE FOR WHICH WAS ISSUED WITHOUT THE PERMISSION OF ARCHITECT.
7. MATERIAL WILL BE SELECTED AND SPECIFIED BY AN ARCHITECT.

LEGEND :-

SITE AREA : 1.96 acre

DWG. No. :- 01

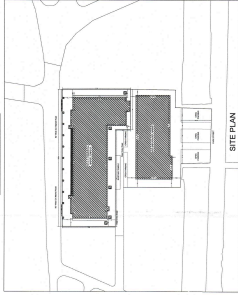
STAMP & SIGNATURE :-



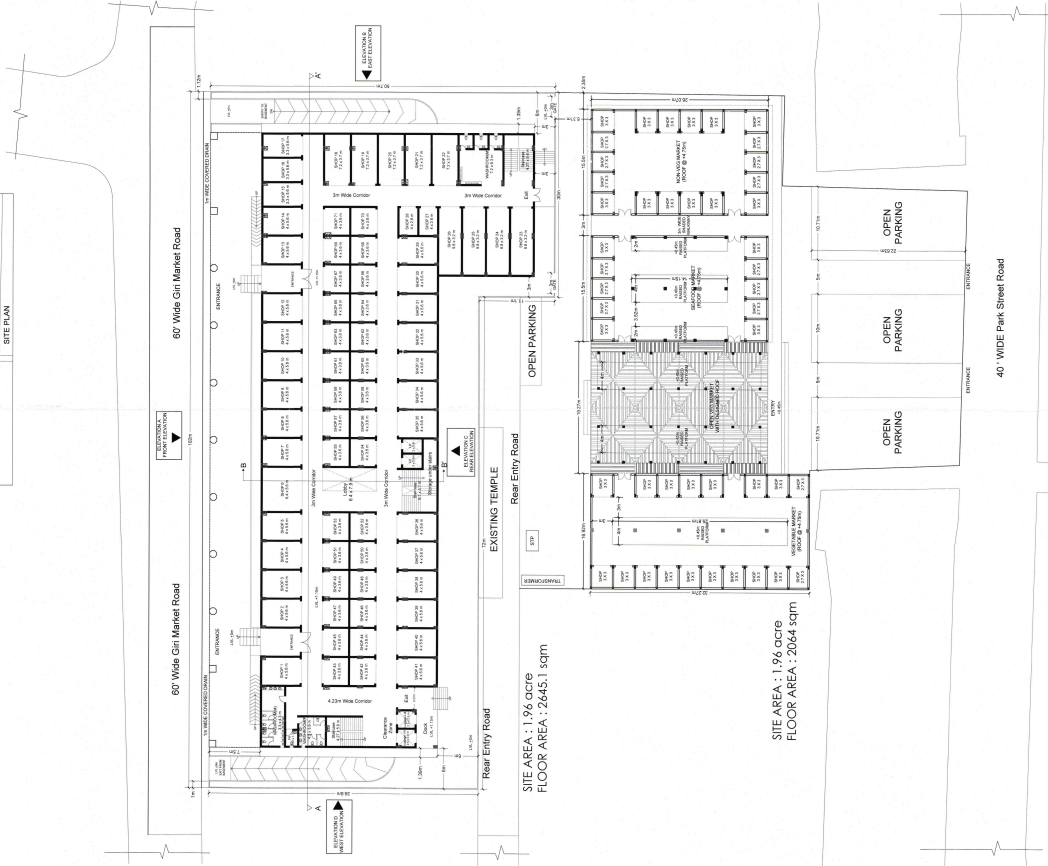
SITE PLAN



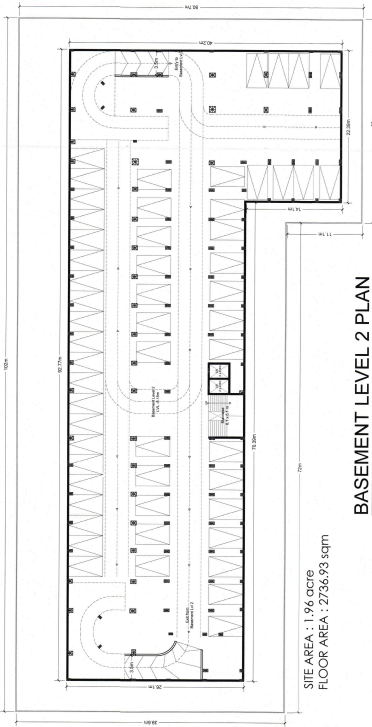
KEY PLAN



SITE PLAN

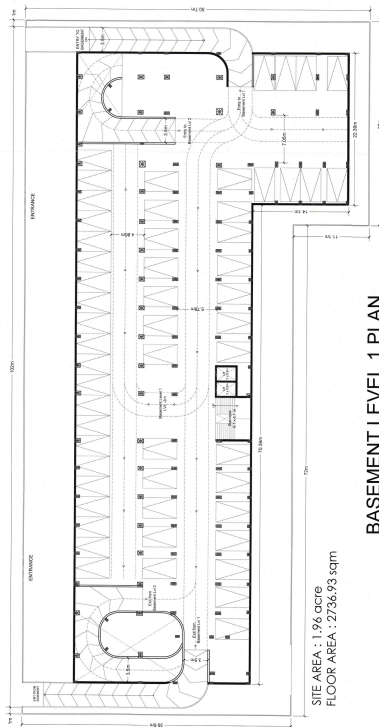


GROUND FLOOR PLAN AND SITE



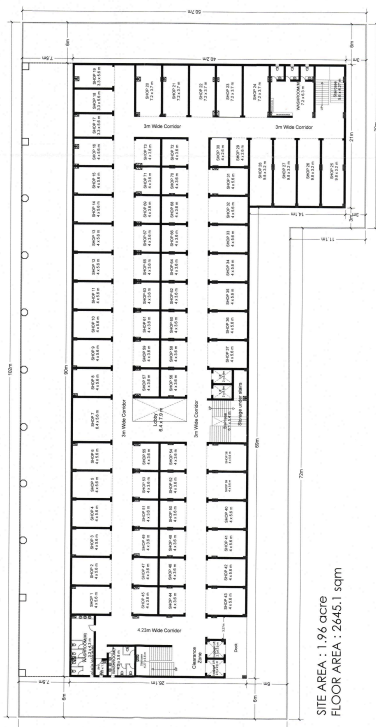
BASEMENT LEVEL 2 PLAN

SITE AREA : 1.96 acre
FLOOR AREA : 2736.93 sqm



BASEMENT LEVEL 1 PLAN

SITE AREA : 1.96 acre
FLOOR AREA : 2736.93 sqm



TYPICAL FLOOR PLAN (1st, 2nd & 3rd FLOOR)

SITE AREA : 1.96 acre
FLOOR AREA : 2645.1 sqm

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ODISHA

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BeMC GIRI MARKET COMPLEX
AND VENDING ZONE

REVISION :	Sl. No	Date	Revision

DRG / SHEET TITLE :-

PROPOSED FLOOR PLAN

SHEET -A0, SCALE: 1:250

Date :- 22.01.2026

Drawn By :-

Ar. Shubhra Saloni

Checked By :-

Ar. Ranjan Mahapatra

NORTH INDICATOR :-



GENERAL NOTES :-

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LEGEND :-

DWG No. :- 02

STAMP & SIGNATURE :-



SAAJAN ARCHITECTS

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CLIENT :-



BERHAMPUR MUNICIPAL
CORPORATION, BERHAMPUR,
ODISHA

PROJECT :-

BeMC GIRI MARKET COMPLEX
AND VENDING ZONE

REVISION :-

Sl. No	Date	Revision

DRG / SHEET TITLE :-

SECTIONAL DRAWING DETAILS
OF MARKET COMPLEX

SHEET -A0, SCALE- 1:180

Date :- 22.01.2026

Drawn By :-

Ar. Shubrina Saloni

Er. Ranjan Mahapatra

Checked By :-

Ar. Saajan Varanasi

NORTH INDICATOR :-

N

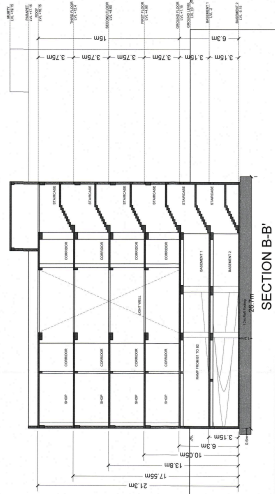
GENERAL NOTES :-

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6. MATERIAL WILL BE SELECTED AND SPECIFIED BY AN ARCHITECT.

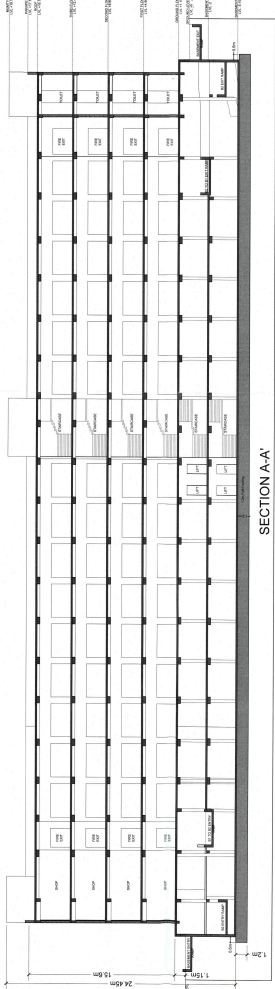
LEGEND :-

DWG No. :- 03

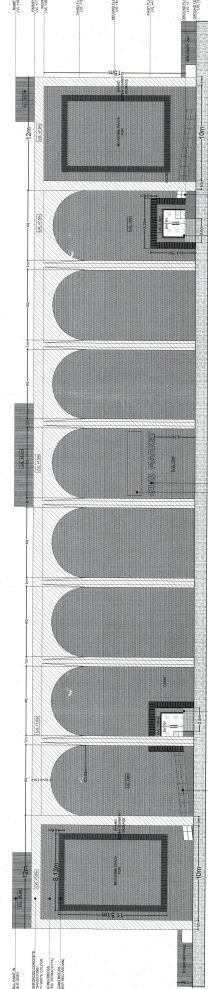
STAMP & SIGNATURE :-



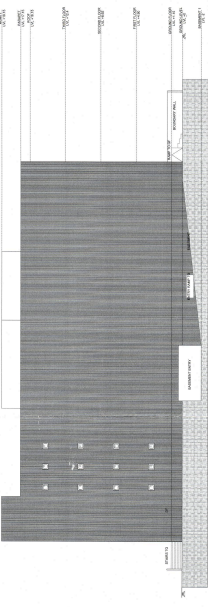
SECTION A-A'



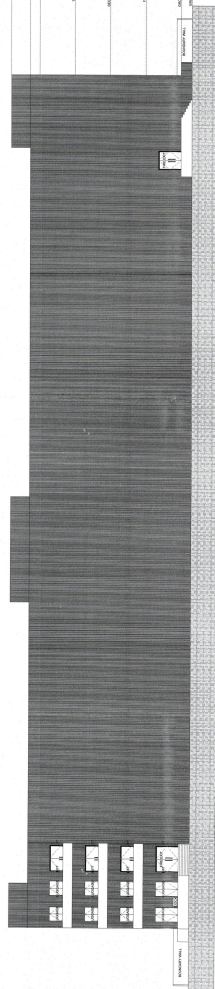
SECTION B-B'



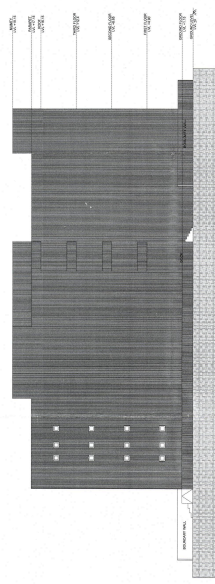
ELEVATION A
FRONT ELEVATION



ELEVATION B
EAST ELEVATION



ELEVATION C
REAR ELEVATION



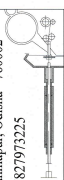
ELEVATION D
WEST ELEVATION



SAAJAN ARCHITECTS

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STRUCTURAL CONSULTANT :



STR. ENGG.: ER. MANAS RANJAN SABAR

CLIENT :-



BERHAMPUR MUNICIPAL
CORPORATION, BERHAMPUR,
ODISHA

PROJECT :-

B&MC GIRI MARKET COMPLEX
AND VENDING ZONE

REVISION :-

Sl No	Date	Revision

DWG./SHEET TITLE :-
**STRUCTURAL DRAWING
DETAILS OF MARKET
COMPLEX**

SHEET -A0, SCALE- 1:230

Date :- 22.01.2026

Drawn By :- Ar. Shubra Saloni

Checked By :- Ar. Sajaan Varanasi

NORTH INDICATOR :-



GENERAL NOTES :-

1. ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE.
2. ALL LIFELINES ARE IN METERS.
3. ALL DIMENSIONS ARE TO BE READ AND NOT TO BE MEASURED OR
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DETAILS & SPECIFICATIONS & SITE CONDITIONS & SHALL REPORT ANY DISCREPANCY TO THE ARCHITECT BEFORE COMMENCEMENT OF WORK.
5. FOR CONSTRUCTION PURPOSES, THE DIMENSIONS SHALL NOT BE USED FOR CONSTRUCTION UNTIL THEY ARE ISSUED FOR CONSTRUCTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES & SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES & SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES.
7. MATERIAL WILL BE SELECTED AND SPECIFIED BY AN ARCHITECT.

LEGEND :-

DWG No. :- 04

STAMP & SIGNATURE :-

Ar. Sajaan Varanasi

Ar. Shubra Saloni

Ar. Sajaan Varanasi

Ar. Shubra Saloni

Ar. Sajaan Varanasi

Ar. Shubra Saloni

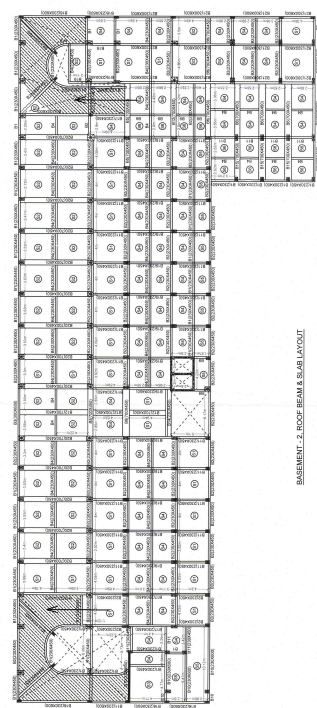
Ar. Sajaan Varanasi

Ar. Shubra Saloni

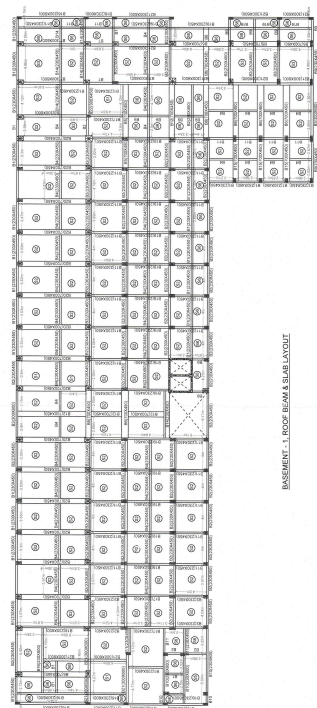
Ar. Sajaan Varanasi

Ar. Shubra Saloni

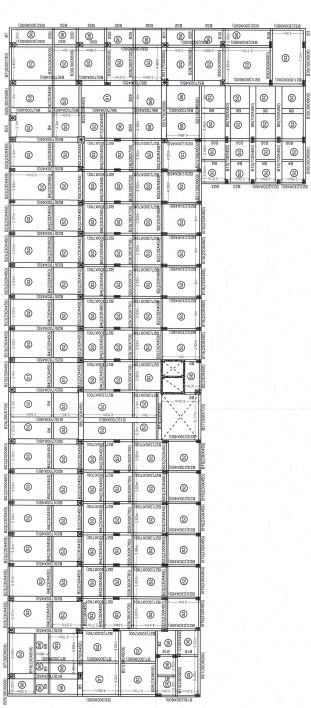
Ar. Sajaan Varanasi



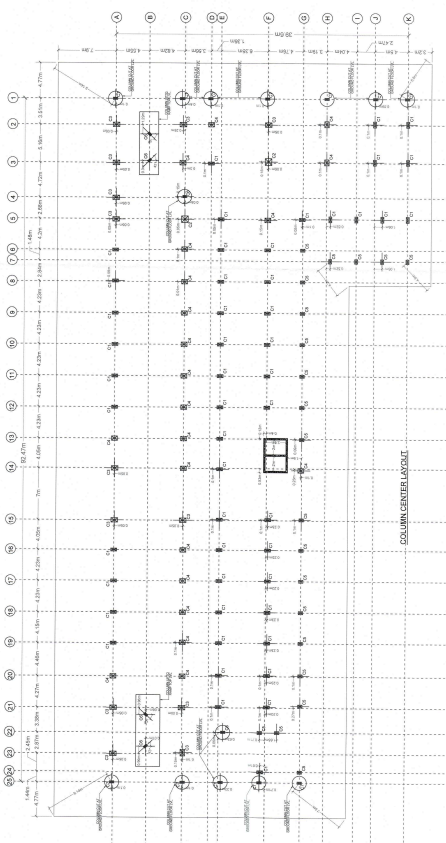
BASEMENT - 2, ROOF BEAM & SLAB LAYOUT



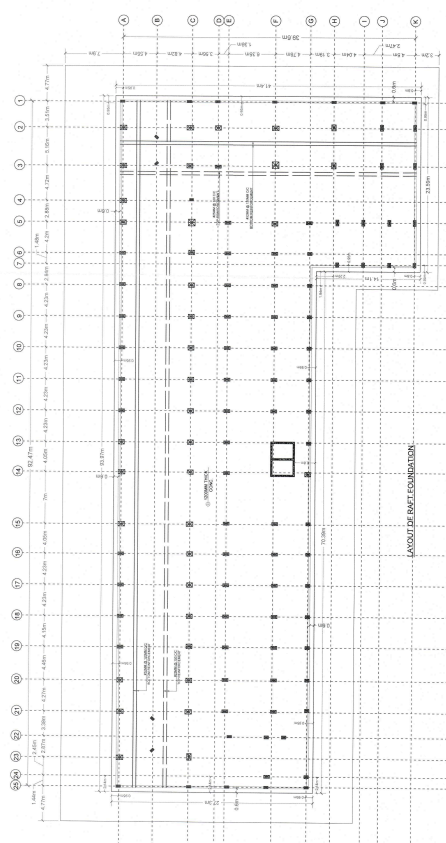
BASEMENT - 1, ROOF BEAM & SLAB LAYOUT



TYPICAL FLOOR, ROOF BEAM & SLAB LAYOUT (SEE 206 & 207 ELEV)



COLUMN CENTER LAYOUT



LAYOUT OF EMPTY FOUNDATION

GENERAL NOTES 1 :-

- A. ALL DIMENSIONS ARE IN FEET & INCHES UNLESS OTHERWISE MENTIONED.
- B. ALL DIMENSIONS ARE TO BE READ AND NOT TO BE MEASURED OR
- C. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DETAILS & SPECIFICATIONS & SITE CONDITIONS & SHALL REPORT ANY DISCREPANCY TO THE ARCHITECT BEFORE COMMENCEMENT OF WORK.
- D. FOR CONSTRUCTION PURPOSES, THE DIMENSIONS SHALL NOT BE USED FOR CONSTRUCTION UNTIL THEY ARE ISSUED FOR CONSTRUCTION.
- E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES & SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES.
- F. MATERIAL WILL BE SELECTED AND SPECIFIED BY AN ARCHITECT.

GENERAL NOTES 2 :-

- A. EARTH BELOW FOUNDATION SHALL BE PROPERLY RAISED & COMPACTED TO THE REQUIRED DENSITY.
- B. ALL DIMENSIONS ARE TO BE READ AND NOT TO BE MEASURED OR
- C. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DETAILS & SPECIFICATIONS & SITE CONDITIONS & SHALL REPORT ANY DISCREPANCY TO THE ARCHITECT BEFORE COMMENCEMENT OF WORK.
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- E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES & SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES.
- F. MATERIAL WILL BE SELECTED AND SPECIFIED BY AN ARCHITECT.

GENERAL NOTES 3 :-

- A. THE COLUMN SHALL BE ALLOWED ONLY AT THE MIDDLE ZONE OF THE COLUMN.
- B. A SECTION AND LAP SHALL BE STAGGERED AT LEAST 40% OF THE COLUMN HEIGHT.
- C. THE TOP OF THE COLUMN SHALL BE STAGGERED AT LEAST 40% OF THE COLUMN HEIGHT.
- D. CLEAR COVER OF COLUMN = 1"5"

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PROJECT :

BMC GIRI MARKET COMPLEX
AND ZONING ZONE

REVISION :

Sl. No	Date	Revision

DRG / SHEET TITLE :- STRUCTURAL DRAWING DETAILS OF MARKET COMPLEX

SHEET -A0, SCALE: N=1:5

Date :- 22.01.2026

Drawn By :- Ar. Shubra Sani

Checked By :- Ar. Sanjan Varanasi

Er. Ranjan Mahapatra

NORTH INDICATOR :-



GENERAL NOTES :-

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LEGEND :-

DWG No. :- 05

STAMP & SIGNATURE :-



TABLE 1: DETAIL OF COLUMN

COLUMN MARK	GROUND TO 1ST FLOOR	1ST FLOOR TO 2ND FLOOR	2ND FLOOR TO TOP	SPACING OF STIRRUPS
C1				END ZONE: 8mm @ 150mm MD ZONE: 8mm @ 150mm
C2				END ZONE: 8mm @ 150mm MD ZONE: 8mm @ 150mm
C3				END ZONE: 8mm @ 150mm MD ZONE: 8mm @ 150mm
C4				END ZONE: 8mm @ 150mm MD ZONE: 8mm @ 150mm
C5				END ZONE: 8mm @ 150mm MD ZONE: 8mm @ 150mm
C6				END ZONE: 8mm @ 150mm MD ZONE: 8mm @ 150mm
C7				END ZONE: 8mm @ 150mm MD ZONE: 8mm @ 150mm
C8				END ZONE: 8mm @ 150mm MD ZONE: 8mm @ 150mm
C9				END ZONE: 8mm @ 150mm MD ZONE: 8mm @ 150mm
C10				END ZONE: 8mm @ 150mm MD ZONE: 8mm @ 150mm

BEAM TYPE / BEAMS	COLUMN MARK	1ST SUPPORT	MD SPAN	2ND SUPPORT	COLUMN MARK	1ST SUPPORT	MD SPAN	2ND SUPPORT	COLUMN MARK	1ST SUPPORT	MD SPAN	2ND SUPPORT
B1					B7				B7			
B2					B8				B8			
B3					B9				B9			
B4					B10				B10			
B5					B11				B11			
B6					B12				B12			
B7					B13				B13			
B8					B14				B14			
B9					B15				B15			
B10					B16				B16			
B11					B17				B17			
B12					B18				B18			

SLAB	THICKNESS OF SLAB (T)	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	RE
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SAAJAN ARCHITECTS

Architects / Interiors / Project Management
Door No ODBR-016-210-174, 2nd Floor,
Parkstreet, Brahmapur, Odisha - 760002
Phone:- +91-7827973225



STRUCTURAL CONSULTANT :



STR. ENGG. : ER. MANAS RANJAN SAGAR
CLIENT :-



BERHAMPUR MUNICIPAL
CORPORATION, BERHAMPUR,
ODISHA

PROJECT :-

B&M GIRI MARKET COMPLEX
AND VENDING ZONE

REVISION :-

Sl. No	Date	Revision

DRG./ SHEET TITLE :-

STRUCTURAL DRAWING
DETAILS OF VENDING ZONE

SHEET -A0, SCALE- 1:180

Date :- 22.01.2026

Drawn By :- Ar. Shubhra Salani

Er. Ranjan Mahapatra

Checked By :- Ar. Saajan Varanasi

NORTH INDICATOR :-



GENERAL NOTES :-

1. ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS ARE TO BE READ AND NOT TO BE MEASURED OR SCALED.
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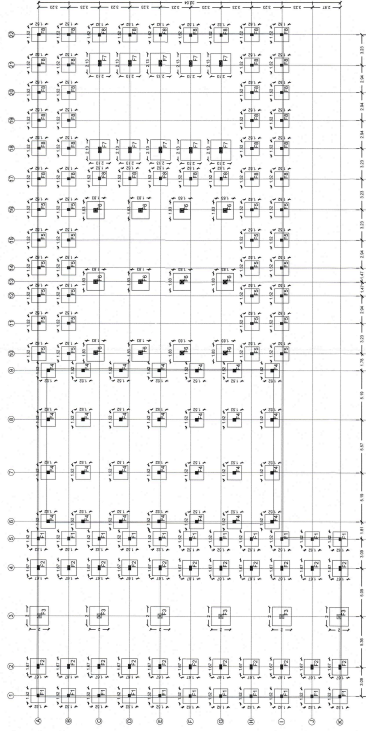
LEGEND :-

ITEM NO.	DESCRIPTION
1	8 mm Ø, 0.15m c/c
2	8 mm Ø, 0.15m c/c
3	8 mm Ø, 0.15m c/c
4	8 mm Ø, 0.15m c/c
5	8 mm Ø, 0.15m c/c
6	8 mm Ø, 0.15m c/c
7	8 mm Ø, 0.15m c/c
8	8 mm Ø, 0.15m c/c
9	8 mm Ø, 0.15m c/c
10	8 mm Ø, 0.15m c/c

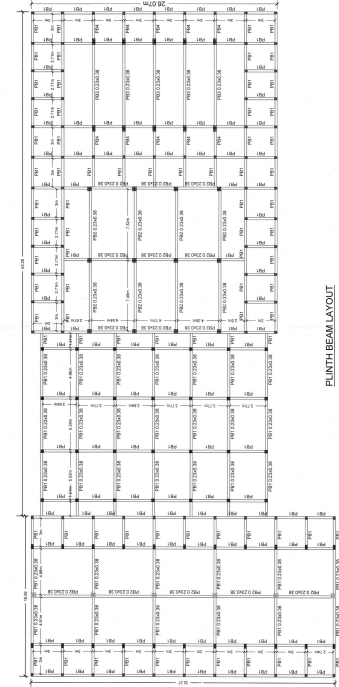
DWG No. :- 06

STAMP & SIGNATURE :-

Signature of Ar. Saajan Varanasi
Signature of Er. Ranjan Mahapatra
Signature of Ar. Shubhra Salani



COLUMN & FOOTING CENTER LINE LAYOUT



PLINTH BEAM LAYOUT

SL. NO.	TYPE	SIZE	REINFORCEMENT	STRUTTING
1	C1	1.3 x 3.0	8 mm Ø, 0.15m c/c	8 mm Ø, 0.15m c/c
2	C2	1.3 x 3.0	8 mm Ø, 0.15m c/c	8 mm Ø, 0.15m c/c
3	C3	1.3 x 3.0	8 mm Ø, 0.15m c/c	8 mm Ø, 0.15m c/c
4	C4	1.3 x 3.0	8 mm Ø, 0.15m c/c	8 mm Ø, 0.15m c/c
5	C5	1.3 x 3.0	8 mm Ø, 0.15m c/c	8 mm Ø, 0.15m c/c
6	C6	1.3 x 3.0	8 mm Ø, 0.15m c/c	8 mm Ø, 0.15m c/c
7	C7	1.3 x 3.0	8 mm Ø, 0.15m c/c	8 mm Ø, 0.15m c/c
8	C8	1.3 x 3.0	8 mm Ø, 0.15m c/c	8 mm Ø, 0.15m c/c

SCHEDULE OF FOOTINGS

NAME	EXCAVATION DEPTH (M)	FOOTING DEPTH (M)	FOOTING WIDTH (M)	FOOTING LENGTH (M)	FOOTING AREA (M ²)
F1	1.80	1.80	1.30	3.00	3.90
F2	1.80	1.80	1.30	3.00	3.90
F3	1.80	1.80	1.30	3.00	3.90
F4	1.80	1.80	1.30	3.00	3.90
F5	1.80	1.80	1.30	3.00	3.90
F6	1.80	1.80	1.30	3.00	3.90
F7	1.80	1.80	1.30	3.00	3.90
F8	1.80	1.80	1.30	3.00	3.90

ROOF BEAM DETAILS

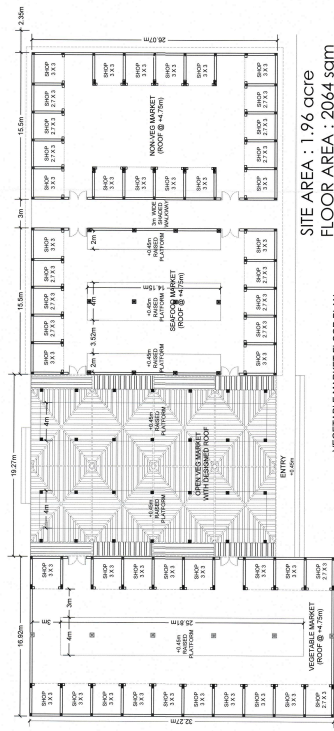
NAME	WIDTH (M)	DEPTH (M)	TOP REINFORCEMENT	BOTTOM REINFORCEMENT	STRUTTING
RB1	1.30	0.30	8 mm Ø, 0.15m c/c	8 mm Ø, 0.15m c/c	8 mm Ø, 0.15m c/c
RB2	1.30	0.30	8 mm Ø, 0.15m c/c	8 mm Ø, 0.15m c/c	8 mm Ø, 0.15m c/c
RB3	1.30	0.30	8 mm Ø, 0.15m c/c	8 mm Ø, 0.15m c/c	8 mm Ø, 0.15m c/c
RB4	1.30	0.30	8 mm Ø, 0.15m c/c	8 mm Ø, 0.15m c/c	8 mm Ø, 0.15m c/c

PLINTH BEAM DETAILS

NAME	WIDTH (M)	DEPTH (M)	TOP REINFORCEMENT	BOTTOM REINFORCEMENT	STRUTTING
PB1	1.30	0.30	8 mm Ø, 0.15m c/c	8 mm Ø, 0.15m c/c	8 mm Ø, 0.15m c/c
PB2	1.30	0.30	8 mm Ø, 0.15m c/c	8 mm Ø, 0.15m c/c	8 mm Ø, 0.15m c/c
PB3	1.30	0.30	8 mm Ø, 0.15m c/c	8 mm Ø, 0.15m c/c	8 mm Ø, 0.15m c/c
PB4	1.30	0.30	8 mm Ø, 0.15m c/c	8 mm Ø, 0.15m c/c	8 mm Ø, 0.15m c/c

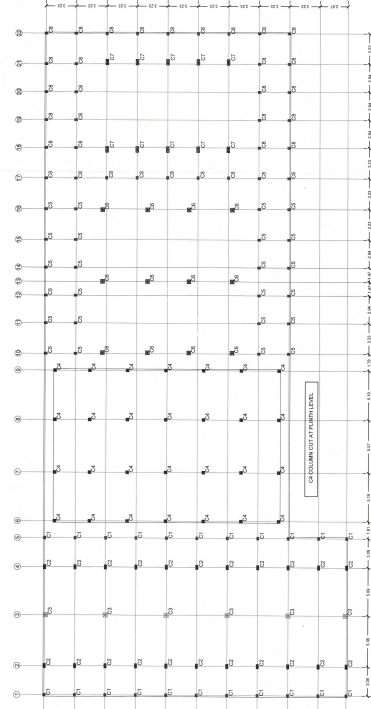
NOTE:-

1. ONE WAY SLAB, 125 MM THICK, MAIN BAR 10 MM Ø, 150 MM C/C & DISTRIBUTION BAR 10 MM Ø, 150 MM C/C
2. TWO WAY SLAB, 125 MM THICK, MAIN BAR 10 MM Ø, 150 MM C/C & DISTRIBUTION BAR 10 MM Ø, 150 MM C/C
3. TWO WAY SLAB, 125 MM THICK, MAIN BAR 10 MM Ø, 150 MM C/C & DISTRIBUTION BAR 10 MM Ø, 150 MM C/C

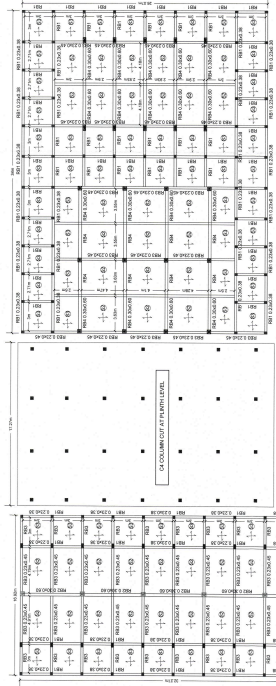


SITE AREA : 1.96 ac
FLOOR AREA : 2064 sqm

VEGETABLE MARKET FLOOR PLAN



COLUMN CENTER LINE LAYOUT



GROUND FLOOR ROOF BEAM & SLAB LAYOUT

GENERAL NOTES 1:

1. ALL DIMENSIONS ARE IN FEET & INCHES UNLESS NOTED OTHERWISE.
2. ANY DIMENSIONS NOTICED IN THE DWG SHALL BE AS SHOWN.
3. ASSUMED BEARING CAPACITY AT SOIL TREATMENT IS 150 KPA.
4. THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR 8-4 ONLY.
5. CONCRETE MIX FOR R.C.C. WORK SHALL BE OF GRADE M-20 CONFORMING TO IS-456:2000.
6. ALL DIMENSIONS ARE TO BE READ AND NOT TO BE MEASURED OR SCALED.
7. ENSURE THE REQUIRED COVER OF REINFORCEMENT.

GENERAL NOTES 2:

1. OVERLAYS ARE ALLOWED ONLY AT THE MIDDLE ZONE OF THE SLAB.
2. NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED AT THE JOINTS.
3. VERTICAL BARS OF REINFORCEMENT SHALL BE EXTENDED UP TO TOP OF BEAM AND BENT INTO BEAM BY 90°.
4. CLEAR COVER OF COLUMN = 1.5'

GENERAL NOTES 3:

1. OVERLAYS ARE ALLOWED ONLY AT THE MIDDLE ZONE OF THE SLAB.
2. NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED AT THE JOINTS.
3. VERTICAL BARS OF REINFORCEMENT SHALL BE EXTENDED UP TO TOP OF BEAM AND BENT INTO BEAM BY 90°.
4. CLEAR COVER OF COLUMN = 1.5'

SAAJAN ARCHITECTS

Architecture / Interior / Project Management

Door No. ODBR-016-210-174, 2nd Floor,
Parkstreet, Brahmapur, Odisha - 760002
Phone:- +91-7827973225



STRUCTURAL CONSULTANT :



SIR. ENGG.: ER. MANAS RANJAN SABAR

CLIENT :-



BERHAMPUR MUNICIPAL
CORPORATION, BERHAMPUR,
ODISHA

PROJECT :-

BaMC GIRI MARKET COMPLEX
AND VENDING ZONE

REVISION :-

Sl. No	Date	Revision

DRG/ SHEET TITLE :-
ELECTRICAL & PLUMBING
LAYOUT OF MARKET COMPLEX
& VENDING ZONE

SHEET -A0, SCALE- 1:250

Date :- 22.01.2026

Drawn By :- Ar. Shubhra Saloni

Er. Ranjan Mahapatra

Checked By :- Ar. Saajan Varanasi

NORTH INDICATOR :-



GENERAL NOTES :-

1. ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE.
2. ALL LETTERS ARE IN METERS.
3. ALL DIMENSIONS ARE TO BE READ AND NOT TO BE MEASURED OR
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DETAILS & SPECIFICATIONS & SITE CONDITIONS & SHALL REPORT ANY ERROR, OMISSION AND/OR ANOMALY TO THE ARCHITECT BEFORE
5. FOR CONSTRUCTION PURPOSES, THE DIMENSIONS SHALL NOT BE MEASURED DIRECTLY ON THE DRAWING. THE DRAWING SHALL NOT BE USED FOR CONSTRUCTION UNTIL THE SAME ARE ISSUED FOR CONSTRUCTION.
6. THE DRAWING IS THE PROPERTY OF THE ARCHITECT AND IT SHALL NOT BE REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT THE PERMISSION OF THE ARCHITECT.
7. MATERIAL WILL BE SELECTED AND SPECIFIED BY AN ARCHITECT.

LEGEND :-

DWG No. :- 07

STAMP & SIGNATURE :-

Ar. Saajan Varanasi

Er. Ranjan Mahapatra

Ar. Shubhra Saloni

Ar. Saajan Varanasi

Er. Ranjan Mahapatra

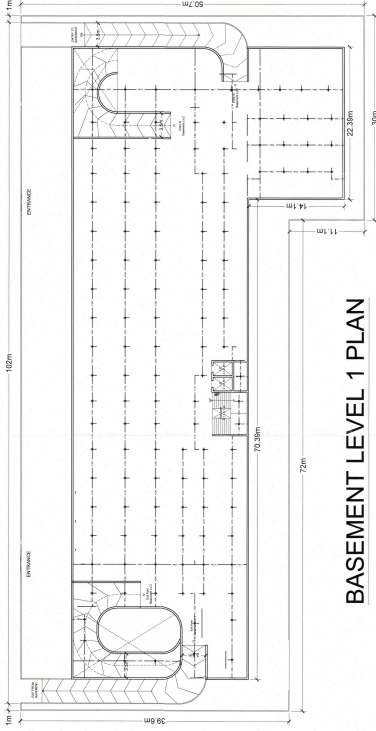
Ar. Shubhra Saloni

Ar. Saajan Varanasi

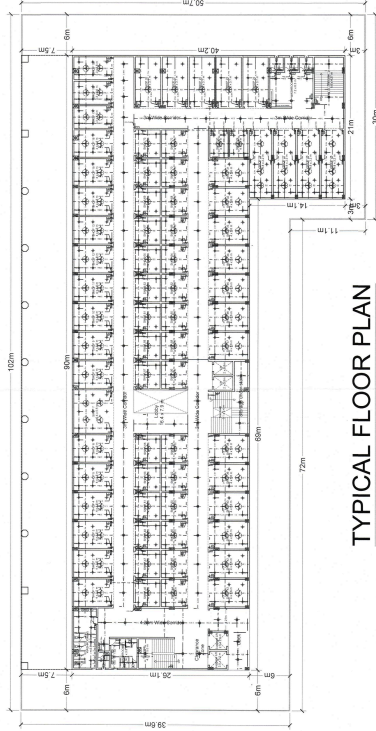
Er. Ranjan Mahapatra

Ar. Shubhra Saloni

Ar. Saajan Varanasi



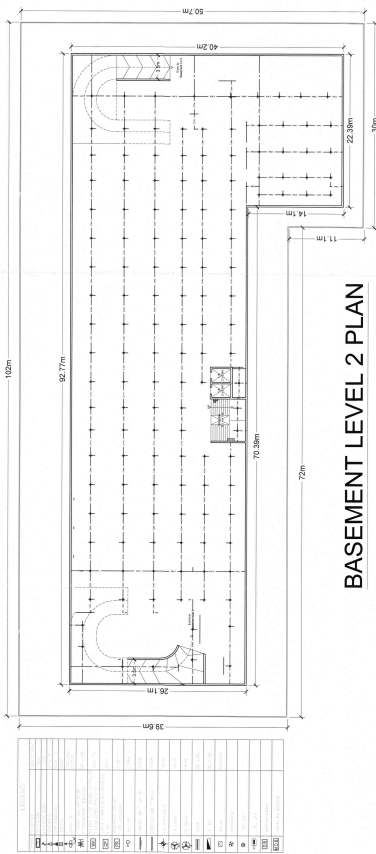
BASEMENT LEVEL 1 PLAN



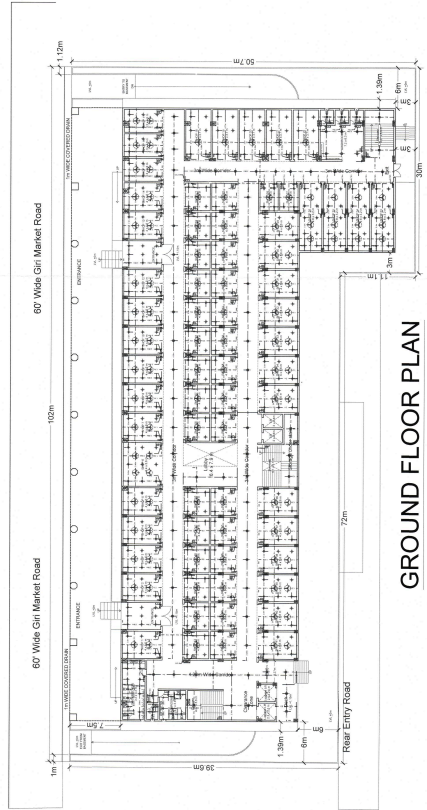
TYPICAL FLOOR PLAN



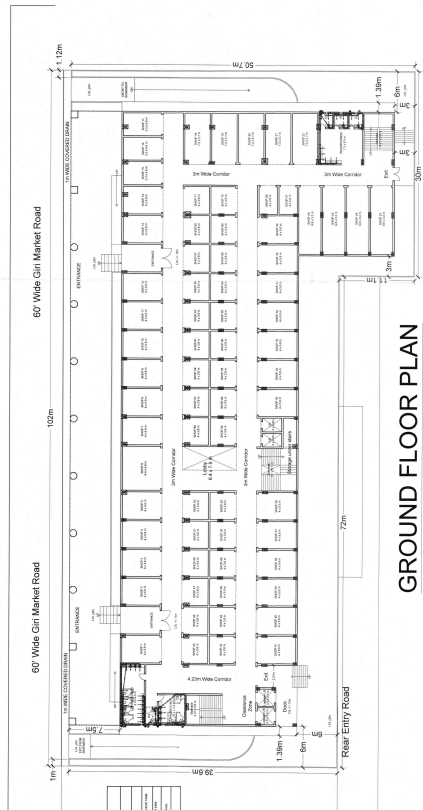
TYPICAL FLOOR PLAN



BASEMENT LEVEL 2 PLAN



GROUND FLOOR PLAN



GROUND FLOOR PLAN

GOVERNMENT OF ODISHA
WORKS DEPARTMENT

OFFICE MEMORANDUM

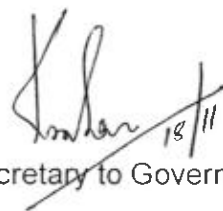
File No. -07556900242019- 15847 W,

dt. 19-11-19

Sub:- Codal / contractual provisions regarding Price Adjustment in works contract.

Codal / contractual provisions regarding Price Adjustment in works contract was under active consideration of Government. After careful consideration, Government have been pleased to make the codal/ contractual provisions regarding Price Adjustment clause due to increase or decrease in rate and price of labour, materials, fuels & lubricants and plant & machineries spare component to be incorporated in DTCN / condition of Contract as per Annexure-"A".

- 1- This Office Memorandum shall be a part of the relevant clauses of DTCN and Agreement and shall take effect from the date of issue.
- 2- This has been concurred in by Finance Department vide their File No. FIN-WF1-MISC-0031-2019 (OSWAS) dt.23.10.2019 and Law Department vide their UOR No.2218/L dt.29.10.2019.



Commissioner - cum- Secretary to Government

Memo No. 15848

W, dated, 19-11-19

Copy with copy of enclosure forwarded to Principal Secretary to Hon'ble Chief Minister, Odisha for information and necessary action.



FA - cum- Addl. Secretary to Government

Memo No. 15849

W, dated, 19-11-19

Copy with copy of enclosure forwarded to P. S. to Hon'ble Minister, Works, Odisha / P. S. to Hon'ble Minister, Finance, Odisha for information and necessary action.



FA - cum- Addl. Secretary to Government

(P.T.O)

Memo No. 15850

W, dated, 19-11-19

Copy with copy of enclosure forwarded to OSD to Chief Secretary, Odisha / Sr. P.S. to Development Commissioner-cum-Additional Chief Secretary, Odisha / Sr. P.S. to Principal Secretary, Finance Department for information and necessary action.

S. K. Singh 18.11.19
FA - cum- Addl. Secretary to Government

Memo No. 15851

W, dated, 19-11-19

Copy with copy of enclosure forwarded to the Principal Accountant General (A&E), Odisha, Bhubaneswar / Principal Accountant General (E & S R Audit), Odisha, Puri Branch, Puri for information and necessary action.

S. K. Singh 18.11.19.
FA - cum- Addl. Secretary to Government

Memo No. 15852

W, dated, 19-11-19

Copy with copy of enclosure forwarded to All Departments / Managing Director, OB & CC Ltd., Bhubaneswar / Managing Director, OCC Ltd., Bhubaneswar / Chief Architect, Odisha, Bhubaneswar for information and necessary action.

S. K. Singh 18.11.19
FA - cum- Addl. Secretary to Government

Memo No. 15853

W, dated, 19-11-19

Copy with copy of enclosure forwarded to EIC (Civil), Odisha / All Chief Engineers, Odisha / All Superintending Engineers / All Executive Engineers (under Works Department) for information and wide circulation among subordinate offices.

S. K. Singh 18.11.19.
FA - cum- Addl. Secretary to Government

Memo No. 15854

W, dated, 19-11-19

Copy with copy of enclosure forwarded to OSWAS Control Room with a request to upload it in the web-site of Works Department.

S. K. Singh 18.11.19.
FA - cum- Addl. Secretary to Government

(P.T.O)

Memo No. 15855

W, dated, 19-11-19

Copy with copy of enclosure forwarded to the Director, Printing, Stationary & Publication, Odisha, Cuttack by e-mail (deputydirectorpp@redifmail.com) for publication of this Office Memorandum in the next issue of Odisha Gazette and supply 20 (Twenty) copies to this Department for official use.

S. Kumar 18.11.19

FA - cum- Addl. Secretary to Government

Memo No. 15856

W, dated, 19-11-19

Copy with copy of enclosure forwarded to A/C-I Section / A/C-II Section / Road Section / Plan Section / Building Section / Budget Section / N.Hs. Section / FC & AA Section / EAP Cell / Legal Cell, Works Department for information and necessary action.

S. Kumar 18.11.19

FA - cum- Addl. Secretary to Government

Clause 31 :- Price Adjustment

31.1 : Contract price shall be adjusted for increase or decrease in rates and price of labour, materials, fuels and lubricants in accordance with the following principles and procedures and as per formula given in following Paras.

(a) The price adjustment shall apply for the work done from the start date given in the contract data up to end of the initial intended completion date or extensions granted by the Engineer and shall not apply to the work carried out beyond the stipulated time for reasons attributable to the contractor.

(b) The price adjustment shall be determined during each month from the formula given in following Paras

(c) Following expressions and meanings are assigned to the work done during each month:

R= Total value of work done during the month. It would include the amount of secured advance granted, if any, during the month, less the amount of secured advance recovered, if any during the month. It will exclude value for works executed for extra items under variations.

31.2 : To the extent that full compensation for any rise or fall in costs to the contractor is not covered by the provisions of this or other clauses in the contract, the unit rates and prices included in the contract shall be deemed to include amounts to cover the contingency of such other rise or fall in costs

The formula (e) for adjustment of prices are:

31(a) (i): Adjustment of Other Materials Component

Price adjustment for increase or decrease in cost of local materials other than cement, steel, bitumen , pipe and POL procured by the contractor shall be paid in accordance with the following formula:

$$V_M = 0.85 \times P_m / 100 \times R \times (M_1 - M_0) / M_0$$

V_M = Increase or decrease in the cost of work during the month under consideration due to changes in rates for local materials other than cement, steel, bitumen and POL.

M_0 = The all India wholesale price index(all commodities) on 28 days preceding the date of opening of Bids, as published by the Ministry of Commerce and Industry ,Government of India, New Delhi.

M_1 = The all India wholesale price index (all commodities) for the month under consideration as published by the Ministry of Commerce and Industry , Government of India, New Delhi.

P_m = Percentage of local material component (other than cement, steel, bitumen and POL) of the work.



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31(a)(ii): Adjustment for Cement Component

Price adjustment for increase or decrease in the cost of cement procured by the contractor shall be paid in accordance with the following formula:

$$V_c = 0.85 \times P_c / 100 \times R \times (C_1 - C_0) / C_0$$

V_c = Increase or decrease in the cost of work during the month under consideration due to changes in the rates for cement

C_0 = The all India wholesale price index for Ordinary Portland Cement (OPC) on 28 days preceding the date of opening of Bids as published by the Ministry of Commerce and Industry, Government of India, New Delhi.

C_1 = The all India wholesale price index for Ordinary Portland Cement (OPC) for the month under consideration as published by the Ministry of Commerce and Industry, Government of India, New Delhi.

P_c = Percentage of Cement Component of the work

31(a)(iii): Adjustment for Steel Component

(iii) Price adjustment for increase or decrease in the cost of steel procured by the contractor shall be paid in accordance with the following formula:

$$V_s = 0.85 \times P_s / 100 \times R \times (S_1 - S_0) / S_0$$

V_s = Increase or decrease in the cost of work during the month under consideration due to changes in the rates for steel

S_0 = The all India wholesale price index for steel (Mild Steel long products) on 28 days preceding the date of opening of Bids as published by the Ministry of Commerce and Industry, Government of India, New Delhi.

S_1 = The all India wholesale price index for steel (Mild Steel long products) for the month under consideration as published by the Ministry of Commerce and Industry, Government of India, New Delhi.

P_s = Percentage of steel component of the work

Note: For the application of this clause, index of (Mild Steel long products) has been chosen to represent steel group.


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31(a)(iv): Adjustment of Bitumen Component

Price adjustment for increase or decrease in the cost of bitumen shall be paid in accordance with the following formula:

$$V_b = 0.85 \times P_b / 100 \times R \times (B_1 - B_0) / B_0$$

V_b = Increase or decrease in the cost of work during the month under consideration due to changes in the rate for bitumen.

B_0 = The official retail price of bulk bitumen at the IOC / BPCL depot at nearest center on the day 28 days prior to date of opening of Bids.

B_1 = The official retail price of bulk bitumen at IOC / BPCL depot at nearest center for the 15th day of the month under consideration.

P_b = Percentage of bitumen component of the work

31(a)(v): Adjustment towards differential cost of Pipes.

Price adjustment for increase or decrease in the cost of pipe shall be paid in accordance with the following formula:

$$V_{pi} = 0.85 \times P_{pi} / 100 \times R \times (P_{i1} - P_{i0}) / P_{i0}$$

V_{pi} = Differential cost of pipe i.e. amount of increase or decrease in rupees to be paid or recovered during the month under consideration.

P_{pi} = Percentage of pipe component of the work

P_{i1} = All India Whole sale price index of pipe for the period under consideration as published by the Ministry of Commerce and Industry , Government of India, New Delhi.

P_{i0} = All India Whole sale price index of pipe on 28 days preceding the date of opening of Bids as published by the Ministry of Commerce and Industry , Government of India, New Delhi.


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31(b): Adjustment of Labour Component

Price adjustment for increase or decrease in the cost due to labour shall be paid in accordance with the following formula:

$$V_L = 0.85 \times P_l / 100 \times R \times (L_1 - L_0) / L_0$$

V_L = Increase or decrease in the cost of work during the month under consideration due to changes in rates for local labour.

L_0 = The minimum wages for unskilled labour as Notified by Government of Odisha as prevailed on the last stipulated date of receipt of tender including extension, if any.

L_1 = The minimum wages for unskilled labour as Notified by Government of Odisha as prevailed on the last date of the Month previous to the one under consideration.

P_l = Percentage of labour component of the work.

31(c): Adjustment of POL(fuel and lubricant) Component

(v) Price adjustment for increase or decrease in cost POL(fuel and lubricant) shall be paid in accordance with the following formula:

$$V_f = 0.85 \times P_f / 100 \times R \times (F_1 - F_0) / F_0$$

V_f = Increase or decrease in the cost of work during the month under consideration due to changes in the rates for fuel and lubricants.

F_0 = The official retail price of High Speed Diesel (HSD) at the existing consumer pumps of IOC / BPCL/ HPCL at nearest center on the day 28 days prior to the date of opening of Bids.

F_1 = The official retail price of HSD at the existing consumer pumps of IOC / BPCL/ HPCL at nearest center for the 15th day of the month under consideration.

P_f = Percentage of fuel and lubricants component of the work

Note : For the application of this clause, the price of High Speed Diesel oil has been chosen to represent fuel and lubricants group.

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31(d): Adjustment for Plant and Machinery Spares Component

- (vi) Price adjustment for increase or decrease in the cost of plant and machinery spares procured by the Contractor shall be paid in accordance with the following formula:

$$V_p = 0.85 \times P_p / 100 \times R \times (P_1 - P_0) / P_0$$

V_p - Increase or decrease in the cost of work during the month under consideration due to changes in the rates for plant and machinery spares

P_0 . The all India wholesale price index for manufacture of machinery for mining, quarrying and construction on 28 days preceding the date of opening of Bids as published by the Ministry of Commerce and Industry, Government of India, New Delhi.

P_1 . The all India wholesale price index for manufacture of machinery for mining, quarrying and construction for the month under consideration as published by the Ministry of Commerce and Industry, Government of India, New Delhi.

P_p - Percentage of plant and machinery spares component of the work

Note : For the application of this clause, index of manufacturing of machinery for mining, quarrying and construction has been chosen to represent the Plant and machinery Spares group.

Regarding wholesale price Index (WPI) for appropriate commodity for payment of price adjustment, due to change of base year of WPI from 1993-94 to 2004-05 & 2011-12, it is observed that, the commodity 'Bars and Rod', 'Cement', 'Heavy machinery and parts' included in the list of WPI 1993-94 series are not mentioned as such in the WPI 2004-05 & 2011-12 series. Therefore, the following items in the WPI 2004-05 & 2011-12 series shall be considered corresponding to items in WPI 1993-94 series:

Sl. No.	Item in WPI 1993-94 series	Item in WPI 2004-05 series	Item in WPI 2011-12 series
1.	Cement	Grey Cement	Ordinary Port land cement
2.	Bars & rods	Rebars	Mild steel long products
3.	Heavy Machinery & parts	Construction Machinery	Manufacture of machinery for mining, quarrying & construction.

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31(e): APPLICATION OF ESCALATION CLAUSE:

The contractor shall for the purpose of availing reimbursement/refund of differential cost of steel, bitumen, cement, pipe, POL and wages, keep such books of account and other documents as are necessary to show that the amount of increase claimed or reduction available and shall allow inspection of the same by a duly authorized representative of Government and further, shall at the request of the Engineer-in-Charge, furnish documents to be verified in such a manner as the Engineer-in-Charge may require any document and information kept. The contractor shall within a reasonable time of 15 days of his becoming aware of any alteration in the price of such material, wages of labour and /or price of P.O.L. give notice thereof to the Engineer-in-Charge stating that the same is given pursuant to this condition along with information relating to there to which he may be in a position to supply.

Percentage Table

SI No.	Category of works		% Component (cost wise)		
			Labour (P _l)	POL (P _f)	Steel (P _s) + Cement (P _c) + Bitumen (P _b) + Pipes (P _{pi}) + Plant & Machinery Spare & Component (P _p) + Other Materials*
1	R&B works (% of component)	Road Works	5	5	90
		Bridge works	5	5	90
		Building works	5	5	90
2	Irrigation works (% of component)	Structural work	5	5	90
		Earth, Canal & Embankment work	5	5	90
3	P.H. Work	Structural work	5	5	90
		Pipeline Work	5	5	Pipe- 70% *Machinery + Other material -20%
		Sewer Line	5	5	Pipe- 70% *Machinery + Other material -20%

*Note:- Further break up may be worked out considering the consumption of Cement, Steel, Bitumen, pipe and Plant & Machinery Spare Component in the concerned works and shall be provided in the bid document in shape of "Schedule of Adjustment Data" as an "Appendix to Bid". (enclosed herewith).

S. K. Ramo
14.11.19

**Appendix to Bid
Schedule of Adjustment Data**

[For all works, adjustment factor for Labour and POL shall be considered @ 5% each. Steel, Cement, Pipes, other Materials and Machinery shall contribute to 90% of Price Adjustment and shall be calculated for each work separately during preparation of estimate, shall be approved by the authority during technical sanction as a "Schedule of Adjustment Data" and shall form part of the Bid Document]

Cl. No- 31 of F2/ P1 Contract Sl. No	Index descripti on	Source of index	Base value*	Base Date*	Weighta ge of Item**
31 (a)(i)	Other Materials	All India Whole sale price index (all commodities) as published by the Economic Advisor to the Govt. of India, Ministry of Commerce and Industry.			
31 (a)(ii)	Cement	Whole sale price index for Cement (Ordinary Portland Cement) as published by the office the Economic Advisor to the Govt. of India, Ministry of Commerce and Industry.			
31 (a)(iii)	Steel	Whole sale price index for Steel (Mild Steel-Long Products) as published by the office of the Economic Advisor to the Govt. of India, Ministry of Commerce and Industry.			
31 (a)(iv)	Bitumen (VG-30)	Official retail price of bulk bitumen at the nearest IOC/ HPCL depot			
31 (a)(v)	Pipes	Whole sale price index for the type of Pipe under consideration, as published by the office the Economic Advisor to the Govt. of India, Ministry of Commerce and Industry.			
31 (b)	Labour	Minimum Wage notified by the Labour and Employee's State Insurance Department of Government of Odisha, India			5%
31 (c)	POL	Official retail price of HSD at nearest IOCL/ HPCL/ BPCL Consumer pump depot.			5%
31 (d)	Plant and Machinery	Whole sale price index for Manufacture of Machinery for Mining, Quarrying and Construction as published by the office the Economic Advisor to the Govt. of India, Ministry of Commerce and Industry.			
			Total		100%

* Values to be filled up at the time of drawl of contract

**Values to be filled up in the bid document.


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