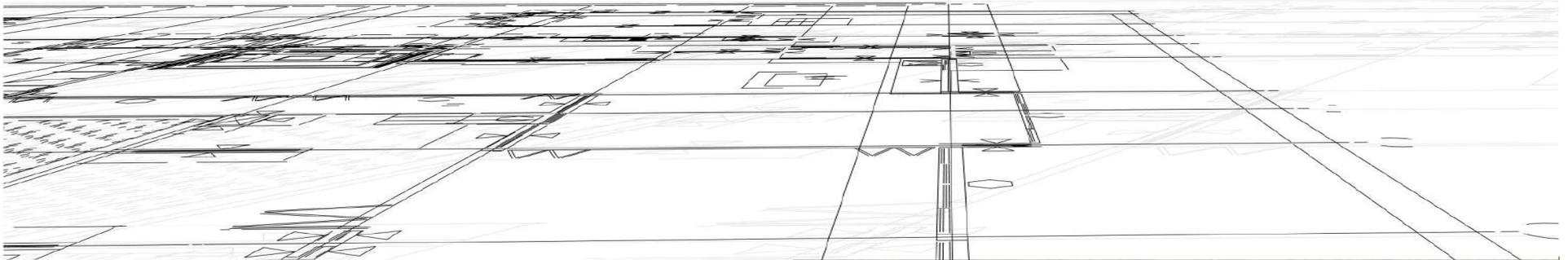
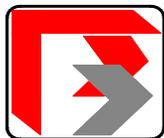


# M/S BUILD SOL



# M/S BUILD SOL

(Company was established in 2008)



**BUILD SOL**

AN ISO 9001-2008

CERTIFIED CONSULTANCY ORG

## ABOUT BUILD SOL

- **BUILDSOL** an ISO 9001-2008 certified Architectural and Structural of Residential, Commercial, Industrial and Building Service Consultancy Organization.
- This organization has been established in the year of 2008, operating from Odisha, India.
- **BUILDSOL** offers unified approach to fulfill a magnitude of Services, specific for requirements of each Project with proven ability to meet these requirements within pre-established financial and time limits.

**Head Office** : Plot No-1465, Binayak Complex,

Nayapalli, Bhubaneswar-751012

Email Id – [buildsolbbsr@gmail.com](mailto:buildsolbbsr@gmail.com)

# VISION



To be one of the best solution providers in Industrial & Building service consultancy.

To be reckoned as an organization for its integrity, customer orientation & long term business relationship.

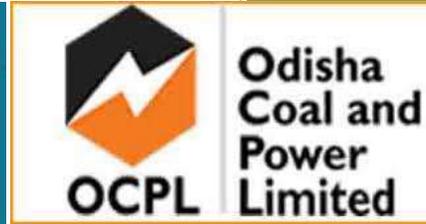
“OUR EFFORT IS TO PROVIDE COMPLETE  
PROJECT SOLUTIONS  
TO OUR CLIENT”

# MISSION

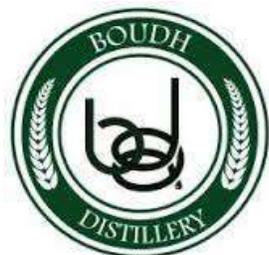


- Energy saving oriented design & optimum utilization of natural resources, technologies & experience.
- To offer customers most profitable , comprehensive solution in engineering consultancy.
- To listen to customer’s voice and orient our efforts towards achieving customer’s satisfaction.

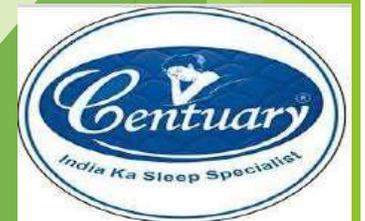
# SOME OF OUR ESTEEMED CLIENTS



UNITED BREWERIES LIMITED



AN ISO 9001:2008, ISO 14001:2004  
OHSAS 18001:2007 COMPANY



# CONSULTANCY SERVICES FOR SPECTRUM OF BUILDINGS



Project Management Consultancy, Preparation of Master plan, Architectural, Structural, Interior and Detail Engineering Consultancy, Estimating and Evaluation process, Tendering Process, Third party Quality Control and Assurance Auditing, Obtaining Approval from concerned local body authorities.

**Institutional Buildings / University campus**

**Commercial Complexes**

**Industrial Complexes**

**Township Planning and Housing Sector**

**Hospital and Hospitality Industry Sector**

**Corporate Sectors**

**Roads & Infrastructure Sector**

**We are armed with well qualified Engineers and Associates along with other support staff fully equipped to offer complete Engineering solutions for all Electro-Mechanical services in Govt. PSU and Private Sector.**

## SERVICES RENDERED BY US



### PRE-DESIGN STUDIES

- Concept Planning
- Surveying
- Geo-technical investigation
- GIS
- EIA

### DESIGN ENGINEERING CONSULTANCY

- Master Planning
- Architectural including master planning
- Structural design
- Utilities design (MEP, HAVC, Fire Fighting, BMS etc.)
- Interior Design
- Landscape design

### PROJECT MANAGEMENT CONSULTANCY

- Procurement Assistance
- Construction Supervision
- Post Commissioning Services
- O & M Services and training
- Technical Audit
- Total Quality Management (TQM)
- Safety Audit
- Energy Audit and Management

# DETAIL OF UTILITY SERVICES PROVIDED



## PLUMBING SYSTEM AND SANITARY SYSTEM

- Water supply collection, pumping and piping distribution system
- Central hot water generation and supply solar water heater
- Storm water collection and disposal system
- Rainwater harvesting System
- Domestic water softening and treatment plant
- Sewage treatment plant
- Drainage collection and disposal system

## ELECTRICAL SYSTEM & LV SYSTEM

- Electrical installation of 11KV & 33KV sub-station and distribution network
- Uninterrupted power supply scheme load calculation & distribution
- Illumination design and its specifications
- Solar system, Earthing & lightning protection
- Data networking system
- BMS & automation system
- PA system
- Security system
- Active and passive communication system

## FIRE PROTECTION SYSTEM

- Sprinkler system (Wet and Dry type)
- Flooding system (FM200, NAF SIII, Inergen, CO2 Flooding)
- Fire Hydrant (Wet riser & Dry riser)
- Fire Detection system (Manual, Automatic, Analogue addressable, Digital addressable)
- Security system (Access control, intruder alarm, CCTV, Perimeter protection, Portable Fire Extinguisher)



**BUILD SOL**

# INDUSTRIAL PROJECTS

**DEALT BY US**

**BUILD SOL**





**Indo Nissin Foods Pvt. Ltd.**



# FOOD PROCESSING PLANT

KHORDA, ODISHA

CLIENT - INDO NISSIN FOODS PVT LTD



# PET LINE BUILDING

BBSR, ODISHA

CLIENT - HINDUSTAN COCA COLA PVT LTD



# BREWERY PLANT

DHENKANAL, ODISHA  
CLIENT - P&A BOTTLERS PVT LTD

**idco**

**Your power to grow**

ISO 9001 & 14001 Corporation



# EMC PARK

INFOVALLY, KHORDA

CLIENT - IDCO ODISHA



# ADMIN BLOCK VIEW



# CFC BLOCK VIEW



FLATTED FACTORY COMPLEX



FLATTED  
FACTORY  
BLOCK

VIEW



# R&D BLOCK VIEW





# WORKER'S HOSTEL BLOCK

FLOOR PLAN





# FACTORY BUILDING

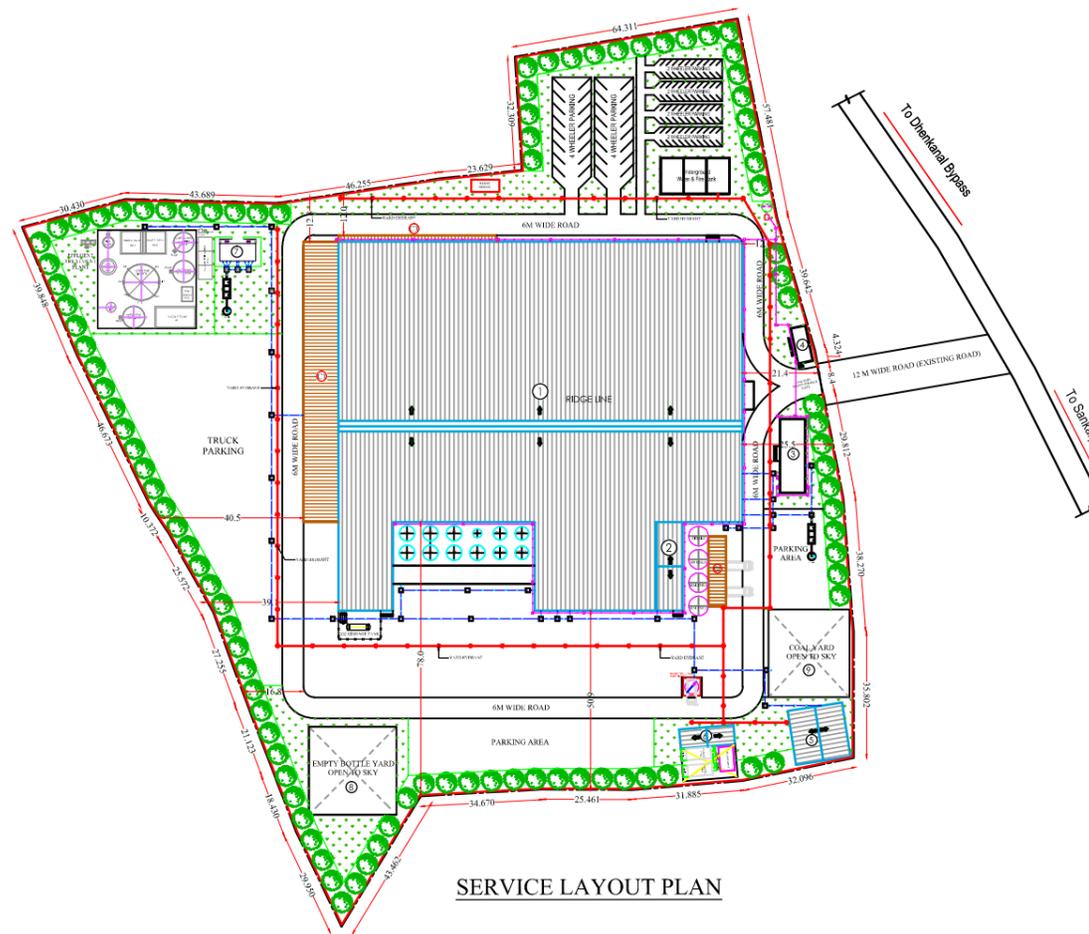
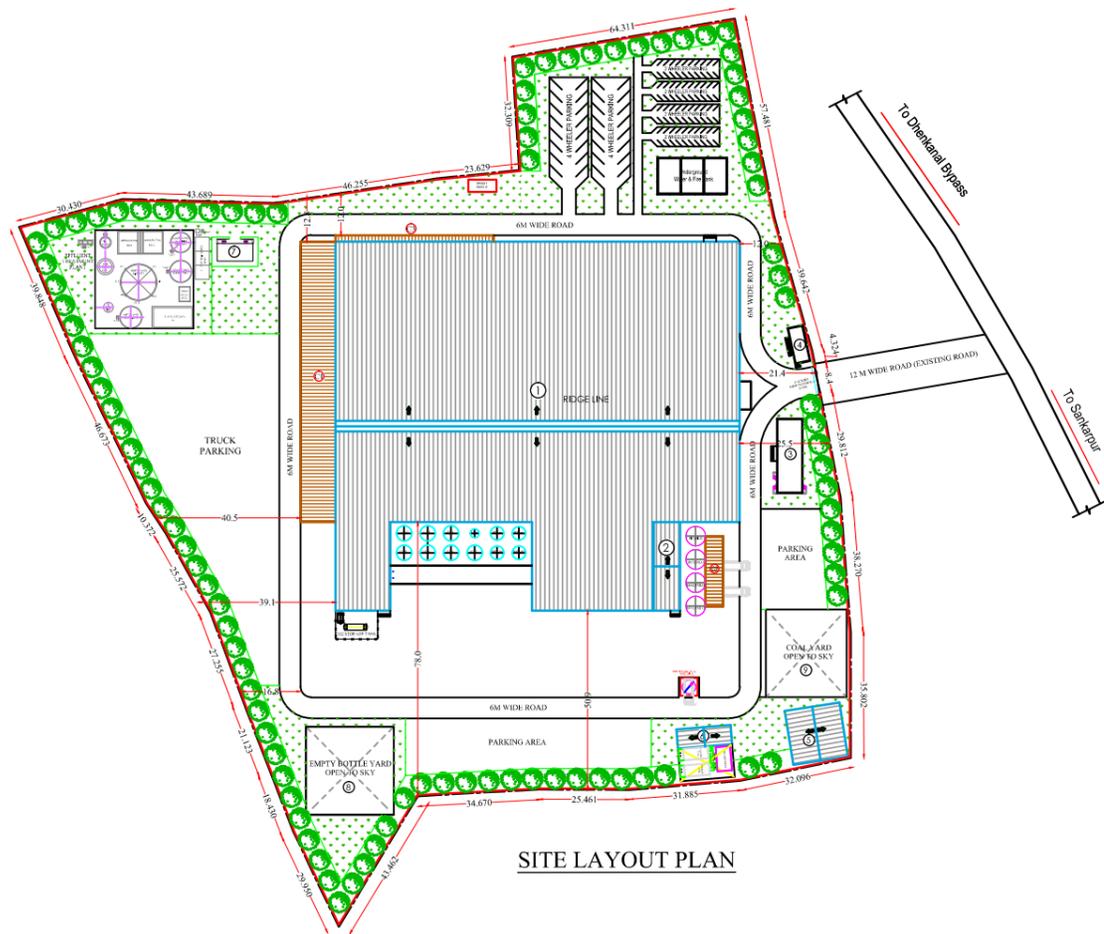
JEMADEI, KHORDA, ODISHA

CLIENT - M/S BRITANNIA INDUSTRIES LTD



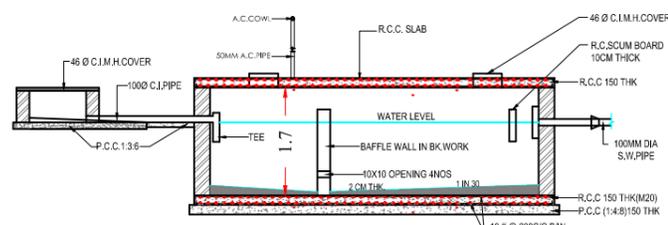
PLOT AREA STATEMENT

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14. TOTAL PROPOSED BUILT-UP-AREA = 22268.085 Sqm
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- TOTAL PROVIDED PARKING AREA = 5662.79 Sqm
17. TOTAL PROVIDED SOLID WASTE AREA = 1930 Sqm
- LANDSCAPING = (REQUIRED 20% OF TOTAL PLOT AREA) = 7260.77 Sqm
18. TOTAL PROVIDED LANDSCAPING AREA = 7512.60 Sqm

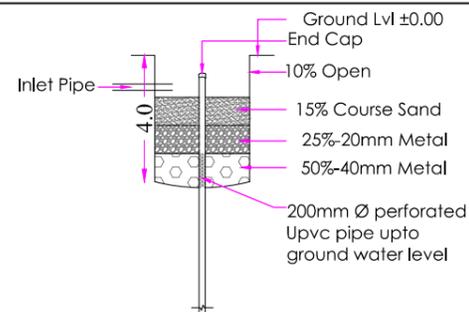


SITE LAYOUT PLAN

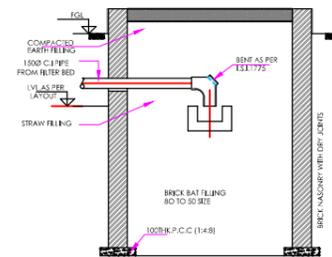
SERVICE LAYOUT PLAN



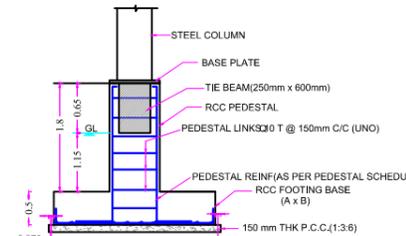
SECTION A-A



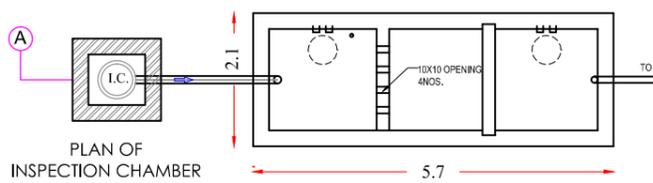
RECHARGING PIT DETAIL



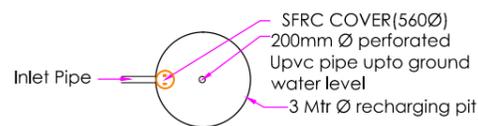
SECTION - BB



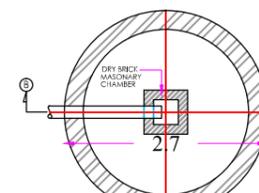
SECTION - CC



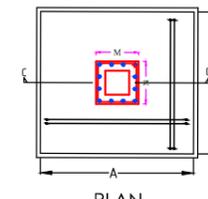
PLAN OF SEPTIC TANK (FOR 100 NO. USERS)



RECHARGING PIT PLAN



PLAN OF SOAK PIT



TYPICAL ARRANGEMENT OF RCC FOOTING

SIGNATURE OF OWNER SIGNATURE OF ARCHITECT

JOB TITLE-

DRAWING TITLE-  
SITE LAYOUT PLAN , SERVICE LAYOUT PLAN & SERVICES DETAIL

NAME OF OWNER:-

PRINCIPAL EPC CONSULTANT:-

CIVIL & ARCHITECTURAL CONSULTANT:-



**BUILD SOL**

ARCHITECTURE ENGINEERING

1465, BINAYAK COMPLEX

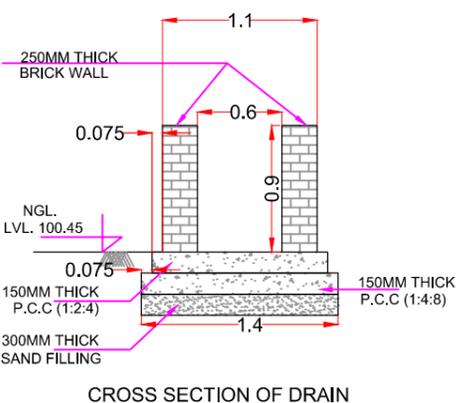
**BUILD SOL** NAYAPALLI, BHUBANESWAR - 751012

SCALE :  
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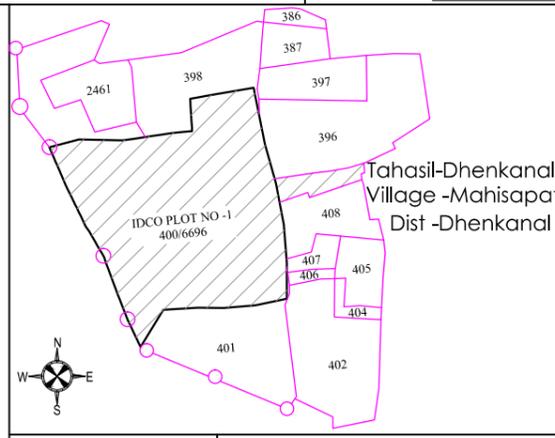
DEALT BY:  
**Ar. Smrutee Mohapatra**  
COA Reg -CA/2016/75616

DATE :  
25-09-2020

CHECKED BY :  
**Er. P. Mohapatra**



CROSS SECTION OF DRAIN



KEY PLAN

1:300

BUILDING & SITE DETAIL

Sl.No.	DESCRIPTION	IN METERS	AREA IN SQM	Sl.No.	DESCRIPTION	IN METERS	AREA IN SQM
①	MAIN PLANT	—	10430.3	⑤	BOILER ROOM	15.71 X 15.5	243.5
②	MALT & RICE SECTION	7.45 X 25.5	189.975	⑥	ELECTRIC PANEL ROOM	15.5 X 5.5	85.25
③	CANTEN, CRECHE & LABOUR REST ROOM	7.40 X 21.275	157.435	⑦	WORKER'S TOILET	10.2 X 5.0	51.00
④	SECURITY & CHANGE ROOM	4.5 X 10.5	47.25	⑧	EMPTY BOTTLE YARD	25.0 X 25.0	625.00
				⑨	COAL YARD	23.0 X 25.0	575.00



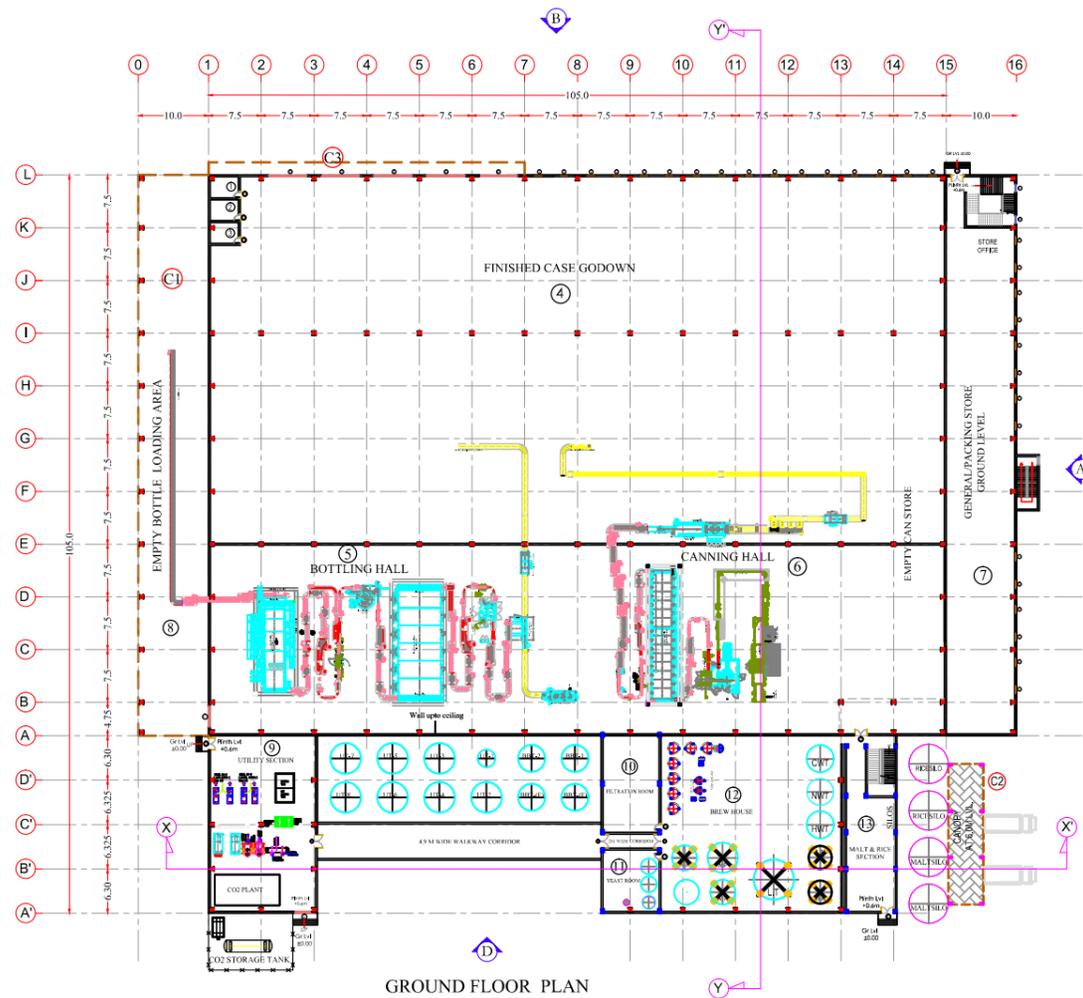
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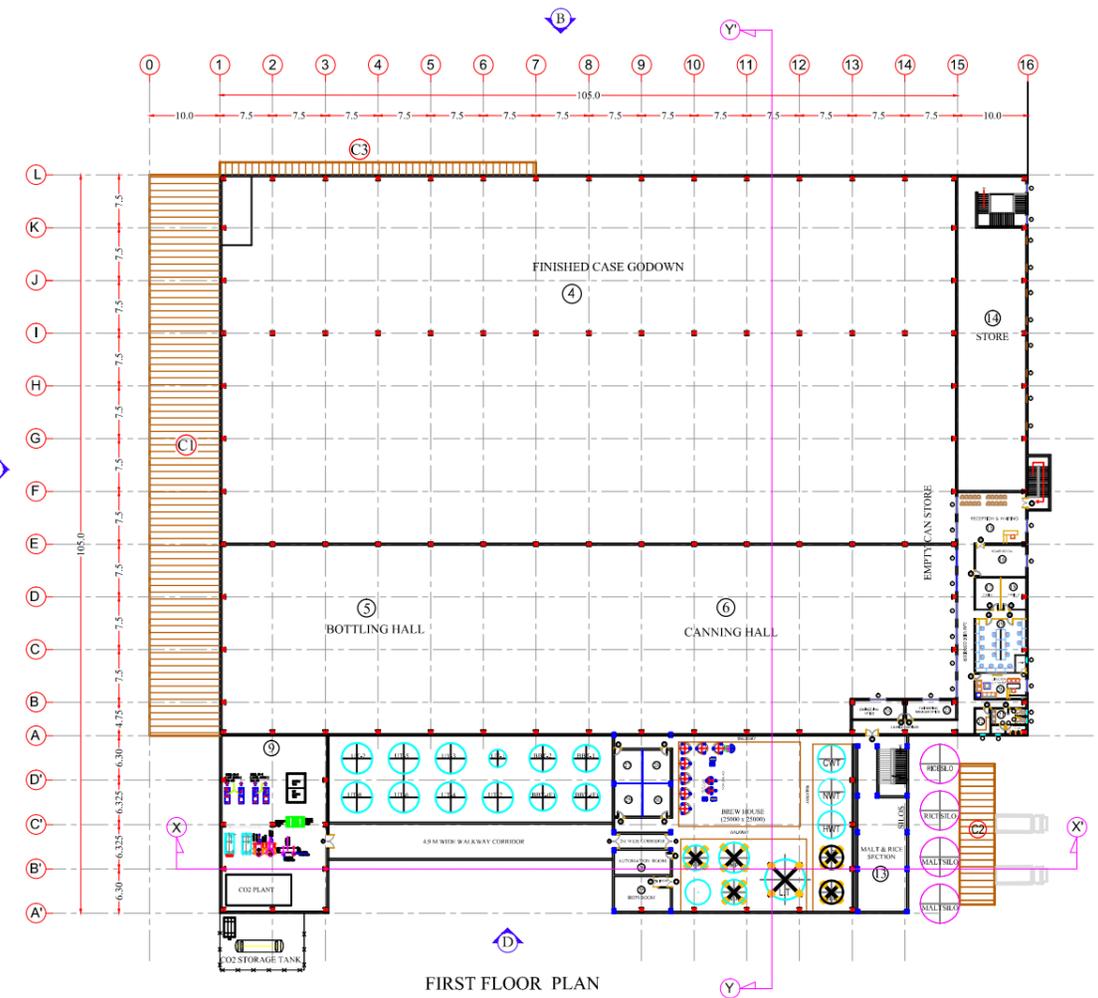
**9. TOTAL MAIN PLANT BUILT-UP-AREA = 21683.65 Sqm**

**DOOR WINDOW SCHEDULE**

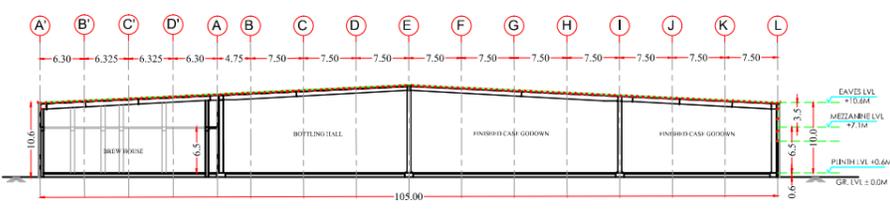
TYPE	SIZE	DESCRIPTION	NO. OF OPENINGS
RS	5.5 X 5.5	ROLLING SHUTTER	5
RS1	3.0 X 5.0	ROLLING SHUTTER	2
D	2.0 X 2.4	DOUBLE paneled flush door	6
D1	1.8 X 2.4	DOUBLE paneled flush door	5
D2	1.5 X 2.4	DOUBLE paneled flush door	3
D3	1.2 X 2.1	DOUBLE paneled flush door	1
D4	0.9 X 2.1	SINGLE paneled flush door	19
D5	0.75 X 2.1	PVC DOOR	5
W	2.4 X 1.35	FOUR paneled sliding window	10
W1	1.8 X 1.35	TRIPLE paneled sliding window	3
W2	1.2 X 1.35	DOUBLE paneled sliding window	4
V	2.1 X 0.6	VENTILATOR	38
V1	0.6 X 0.6	VENTILATOR	5



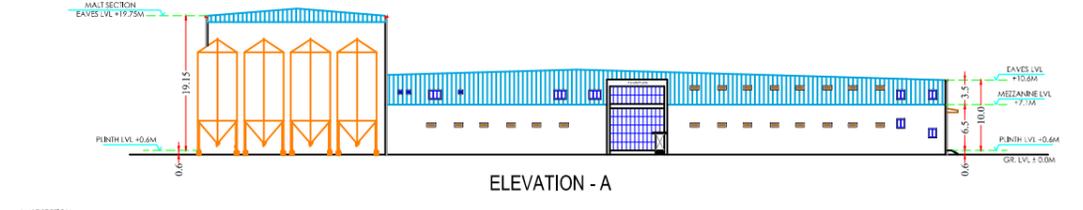
GROUND FLOOR PLAN



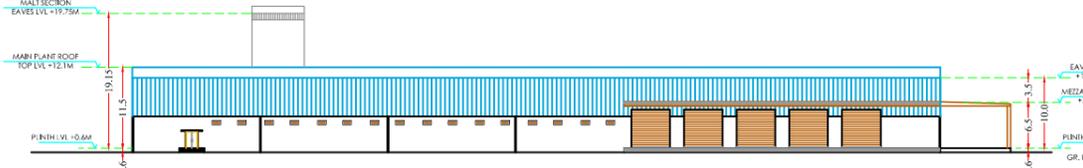
FIRST FLOOR PLAN



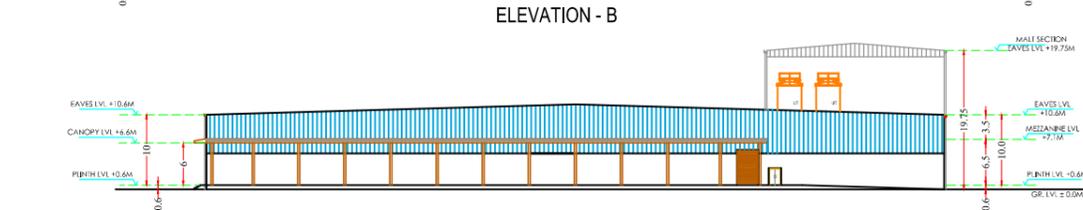
SECTION - YY'



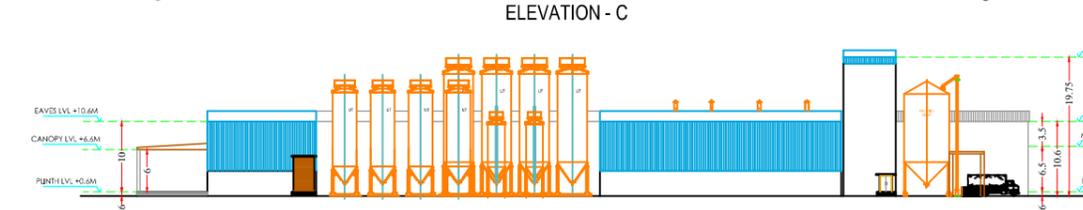
ELEVATION - A



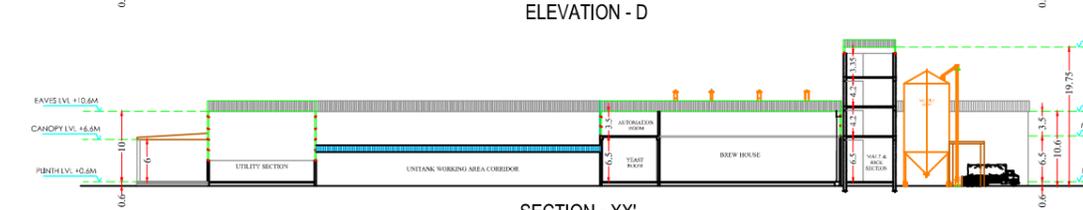
ELEVATION - B



ELEVATION - C



ELEVATION - D



SECTION - XX'

GROUND FLOOR				FIRST FLOOR			
SI.No.	DESCRIPTION	IN METERS	AREA IN SQM	SI.No.	DESCRIPTION	IN METERS	AREA IN SQM
1	EXCISE OFFICE	4.0 X 3.0	12.00	14	STORE	9.75 X 37.375	364.40
2	REST ROOM	4.0 X 3.0	12.00	15	RECEPTION & WAITING	9.75 X 7.25	70.70
3	OFFICE	4.0 X 3.0	12.00	16	BOARD ROOM	7.225 X 4.50	32.50
4	FINISHED CASE GODOWN	104.5 X 52.135	5448.10	17	CABIN - 1	3.575 X 4.50	16.08
5	BOTTLING HALL	52.25 X 26.885	1404.74	18	CABIN - 2	3.575 X 4.50	16.08
6	CANNING HALL	52.25 X 26.885	1404.74	19	WORK STATION	7.225 X 7.565	54.65
7	GENERAL/PACKING STORE GROUND LEVEL	9.75 X 72.0	702.00	20	DIRECTOR CHAMBER	7.225 X 3.6	26.01
8	EMPTY BOTTLE LOADING AREA	10.0 X 79.75	797.50	21	EXECUTIVE TOILET	5.0 X 3.6	18.00
9	UTILITY SECTION	15.0 X 25.0	375.00	22	PANTRY	2.1 X 3.6	7.56
10	FILTRATION ROOM	8.0 X 13.75	110.00	23	ENGINEERING MANAGER OFFICE	7.125 X 2.7	19.23
11	YEAST ROOM	8.0 X 8.75	70.00	24	ENGINEERING OFFICE	7.375 X 2.7	19.91
12	BREW HOUSE	25.6 X 25.0	640.00	25	HOPS ROOM	8.0 X 5.0	40.00
13	MALT & RICE SECTION	6.95 X 25.0	173.75	26	AUTOMATION ROOM	8.0 X 3.5	28.00
				27	BREWERS OFFICE - 1	3.9 X 4.6	17.94
				28	BREWERS OFFICE - 2	3.9 X 4.6	17.94
				29	BREWERS OFFICE - 3	3.9 X 4.6	17.94
				30	BREWERS OFFICE - 4	3.9 X 4.6	17.94

**PLANT BUILDING DETAIL**

SIGNATURE OF OWNER SIGNATURE OF ARCHITECT

JOB TITLE-

DRAWING TITLE-  
FLOOR PLANS, ELEVATIONS AND SECTIONS OF MAIN FACTORY BUILDING

NAME OF OWNER:-

PRINCIPAL EPC CONSULTANT:-

CIVIL & ARCHITECTURAL CONSULTANT:-

**BUILD SOL**  
ARCHITECTURE ENGINEERING  
1465, BINAYAK COMPLEX  
NAYAPALLI, BHUBANESWAR - 751012

SCALE : 1:500  
DEALT BY :  
**Ar. Smrutee Mohapatra**  
COA Reg.-CA/2016/75616

DATE:- 25-09-2020  
CHECKED BY:-  
**Er. P. Mohapatra**



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14. TOTAL PROPOSED BUILT-UP-AREA = 22268.085 Sqm
15. ACHIEVED F.A.R = 22268.085/36303.88 = 0.61
16. PROPOSED PARKING AREA DETAIL = 30% of B.U.A = 6680.43 Sqm
- TOTAL PROVIDED PARKING AREA = 6740.04 Sqm
17. TOTAL PROVIDED SOLID WASTE AREA = 1930 Sqm
- LANDSCAPING = (REQUIRED 20% OF TOTAL PLOT AREA) = 7260.77 Sqm
18. TOTAL PROVIDED LANDSCAPING AREA = 7512.60 Sqm
- NO. OF TREE TO BE PROVIDED = 520

SIGNATURE OF OWNER

SIGNATURE OF ARCHITECT

JOB TITLE-

DRAWING TITLE-

VEHICULAR PARKING LAYOUT PLAN

NAME OF OWNER:-

PRINCIPAL EPC CONSULTANT:-

CIVIL & ARCHITECTURAL CONSULTANT:-



**BUILD SOL**

ARCHITECTURE ENGINEERING

1405, BINAYAK COMPLEX

**BUILD SOL** NAYAPALLI, BHUBANESWAR - 751012

SCALE :

DEALT BY:

NTS

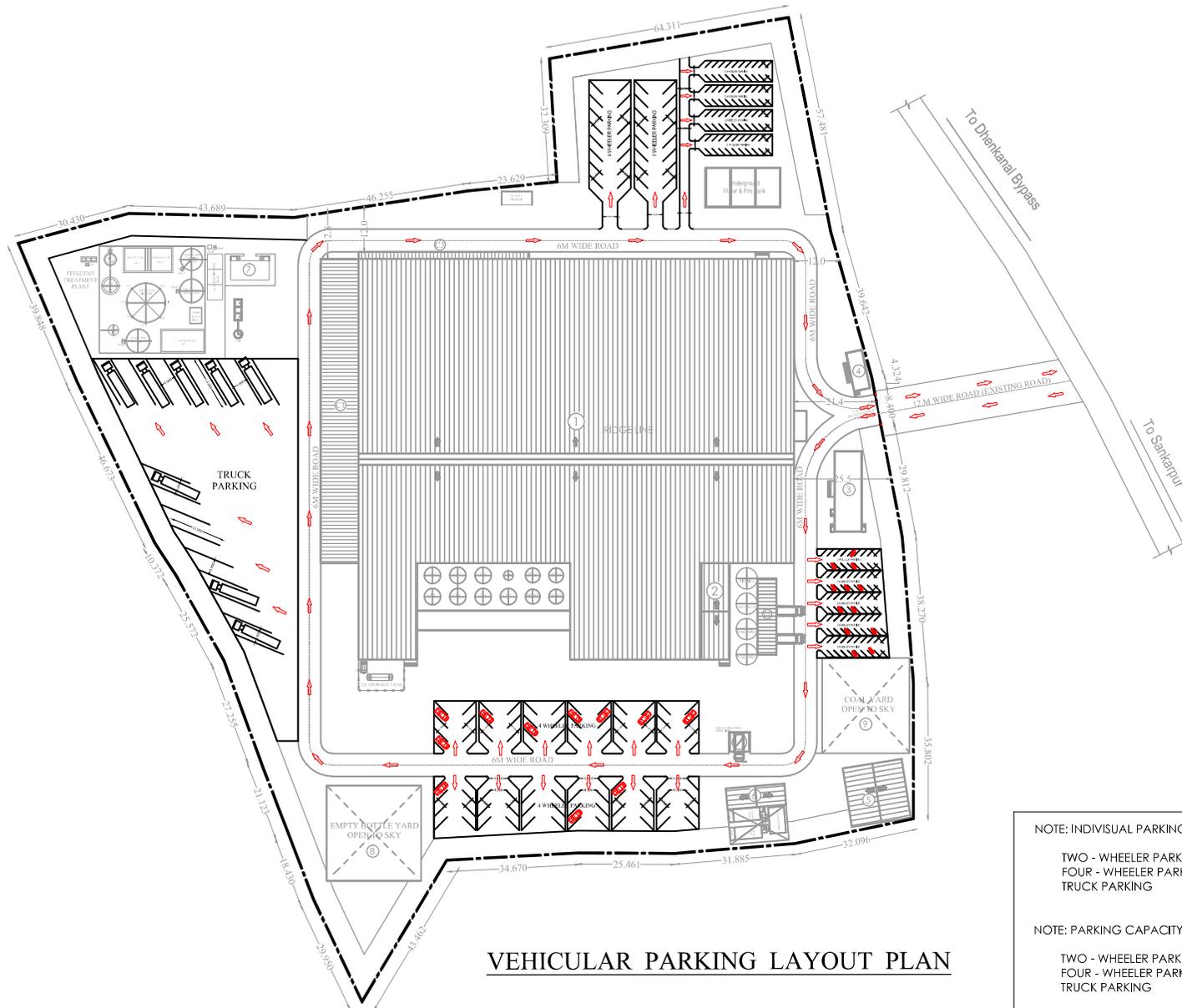
Ar. Smrutee Mohapatra

COA Reg -CA/2016/75616

DATE :

CHECKED BY :

Er. P. Mohapatra



VEHICULAR PARKING LAYOUT PLAN

NOTE: INDIVIDUAL PARKING SIZES -

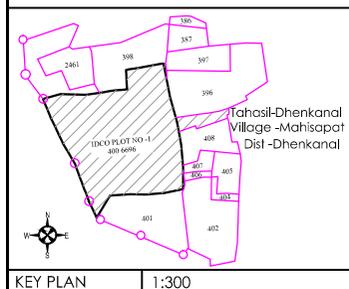
- TWO - WHEELER PARKING = 1.25m x 2.5m
- FOUR - WHEELER PARKING = 2.5m x 5.0m
- TRUCK PARKING = 4.0m x 16m

NOTE: PARKING CAPACITY -

- TWO - WHEELER PARKING = 163 NO.S
- FOUR - WHEELER PARKING = 104 NO.S
- TRUCK PARKING = 17 NO.S

BUILDING & SITE DETAIL

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SIGNATURE OF OWNER \_\_\_\_\_  
SIGNATURE OF ARCHITECT \_\_\_\_\_  
JOB TITLE- \_\_\_\_\_

DRAWING TITLE-  
RAIN WATER HARVESTING LAYOUT PLAN

NAME OF OWNER:-

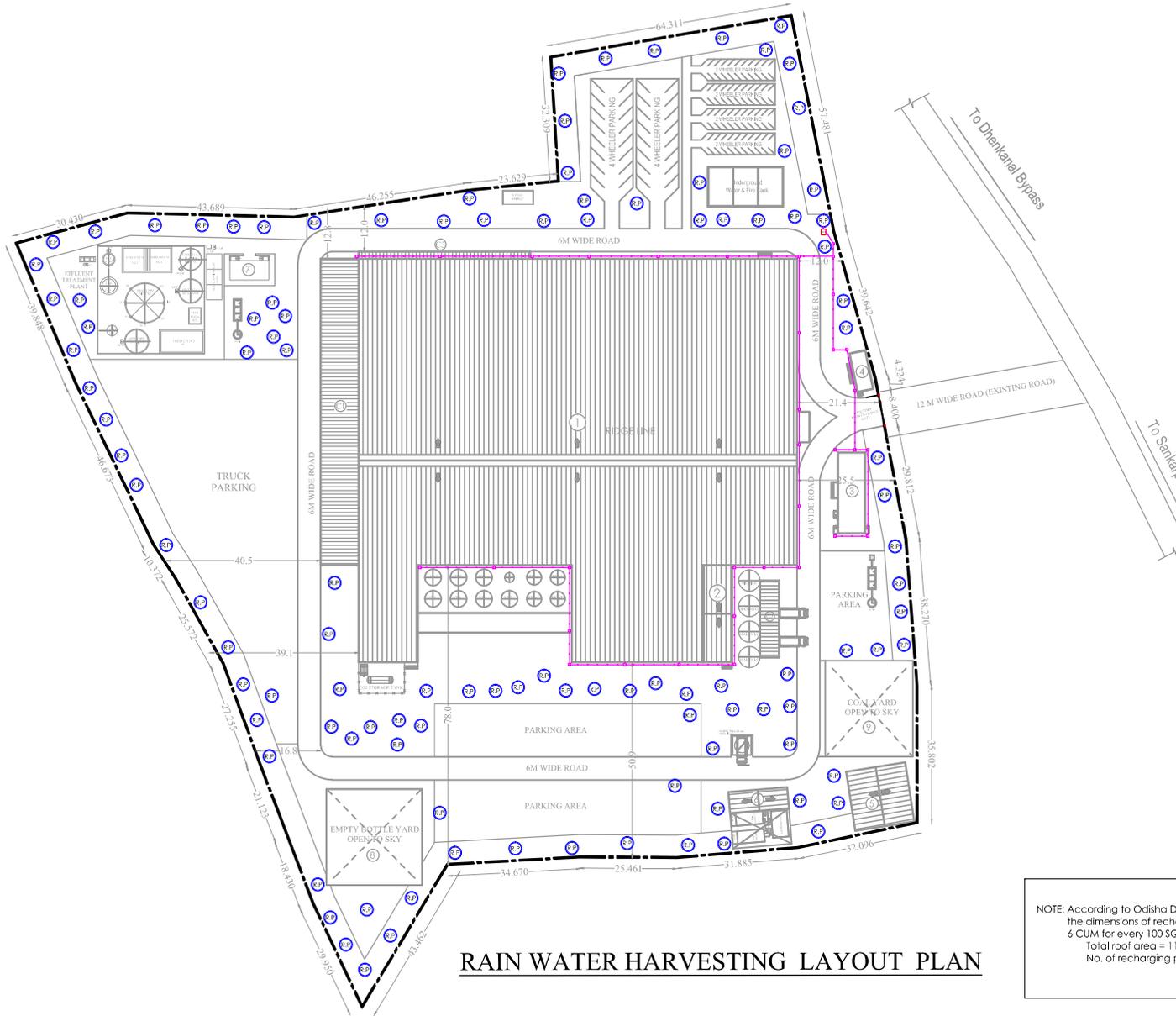
PRINCIPAL EPC CONSULTANT:-

CIVIL & ARCHITECTURAL CONSULTANT:-



SCALE : NTS  
DEALT BY :  
Ar. Smrutee Mohapatra  
COA Reg -CA/2016/75616

DATE :  
CHECKED BY :  
Er. P. Mohapatra

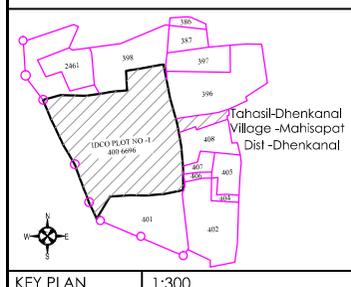


**RAIN WATER HARVESTING LAYOUT PLAN**

NOTE: According to Odisha Development Authority, the dimensions of recharge pits shall be atleast 6 CUM for every 100 SQM of roof area.  
Total roof area = 11236.285 sqm  
No. of recharging pit required = 11236.28/100 = 112.3 or 113 no.s

BUILDING & SITE DETAIL

Sl.No.	DESCRIPTION	IN METERS	AREA IN SQM	Sl.No.	DESCRIPTION	IN METERS	AREA IN SQM
①	MAIN PLANT	—	10430.3	⑤	BOILER ROOM	15.71 X 15.5	243.5
②	MALT & RICE SECTION	7.45 X 25.5	189.975	⑥	ELECTRIC PANEL ROOM	15.5 X 5.5	85.25
③	CANTEEN, CRECHE & LABOUR REST ROOM	7.40 X 21.275	157.435	⑦	WORKER'S TOILET	10.2 X 5.0	51.00
④	SECURITY & CHANGE ROOM	4.5 X 10.5	47.25	⑧	EMPTY BOTTLE YARD	25.0 X 25.0	625.00
				⑨	COAL YARD	23.0 X 25.0	575.00



1:300



**SYMBOLS**

- = YARD HYDRANT
- = SPRINKLER HEAD
- = BUTTERFLY VALVE ON WET RISER
- = 100 mm dia pipe
- = 50 mm dia pipe
- = 40 mm dia pipe
- = 32 mm dia pipe
- = 25 mm dia pipe

NOTE : ALL DIMENSIONS ARE IN METER.

SIGNATURE OF OWNER

SIGNATURE OF ARCHITECT

DRAWING TITLE-  
FIRE SAFETY - SPRINKLER LAYOUT PLAN

NAME OF OWNER:-

PRINCIPAL EPC CONSULTANT:-

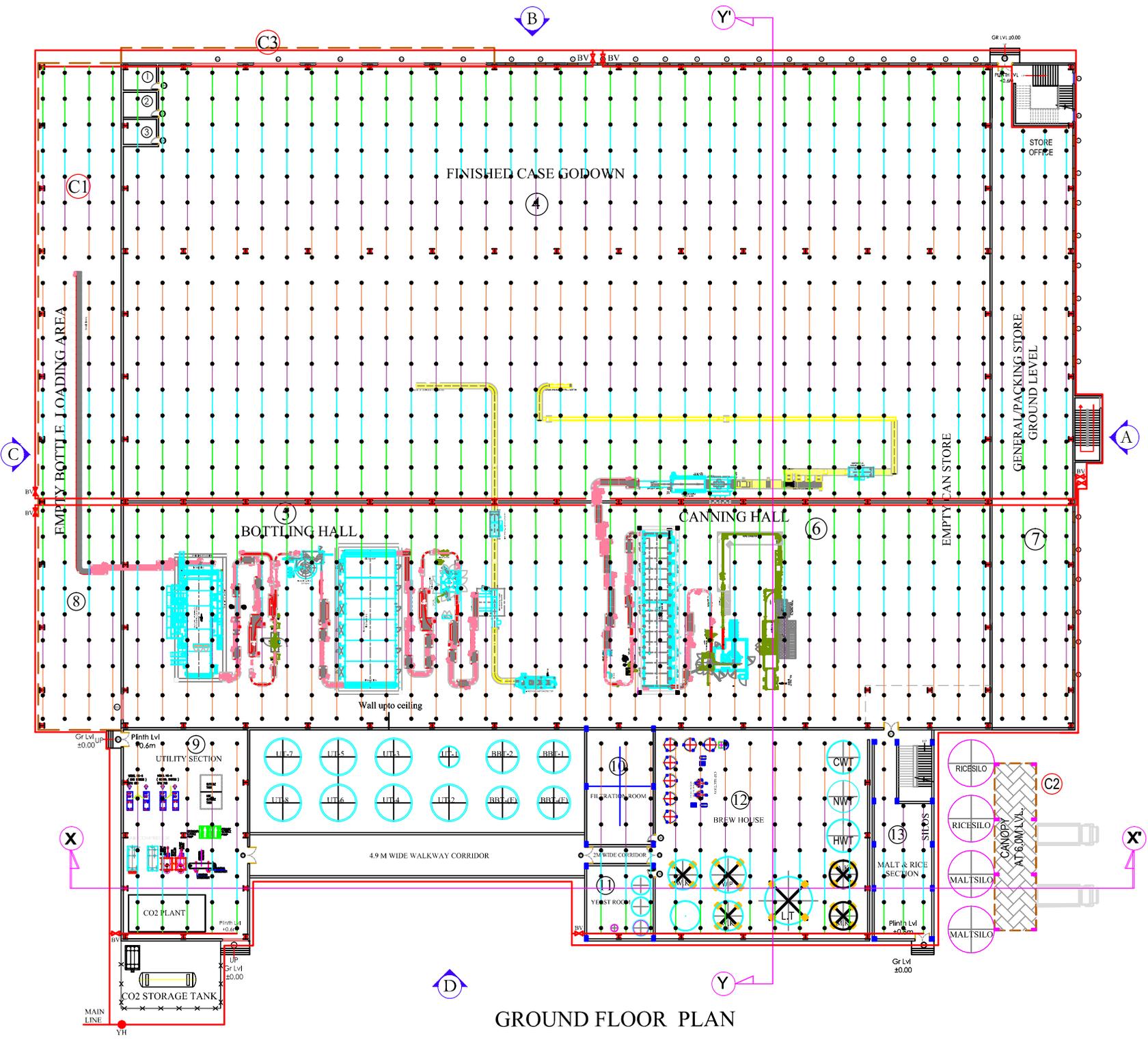
CIVIL & ARCHITECTURAL CONSULTANT:-



**BUILD SOL**  
ARCHITECTURE ENGINEERING  
1405, BINAYAK COMPLEX  
NAYAPALLI, BHUBANESWAR - 751012

SCALE : 1:150  
DEALT BY :  
Ar. Smrutee Mohapatra  
COA Reg -CA/2016/75616

DATE:-  
CHECKED BY:-  
Er. P. Mohapatra



**GROUND FLOOR PLAN**



PLOT AREA STATEMENT

1. TOTAL AREA OF PLOT AS/SALE DEED = 36303.88 Sqm (9.0 Acre)
2. ABUTTING ROAD WIDTH = 12m  
PROPOSED COVERED AREA DETAIL
3. TOTAL PROPOSED COVERED AREA ON GROUND FLOOR = 11236.285 Sqm
4. ACHIEVED GROUND COVERAGE = 30.95 %
5. GROUND FLOOR MAIN PLANT BUILT-UP-AREA = 10651.85 Sqm
6. FIRST FLOOR MAIN PLANT BUILT-UP-AREA = 10651.85 Sqm
7. 2nd FLOOR MAIN PLANT BUILT-UP-AREA = 189.975 Sqm
8. 3rd FLOOR MAIN PLANT BUILT-UP-AREA = 189.975 Sqm
9. BUILT-UP-AREA OF WORKER'S TOILET = 51.00 Sqm
10. BUILT-UP-AREA OF SECURITY ROOM AND CHANGING ROOM = 47.25 Sqm
11. BUILT-UP-AREA OF BOILER ROOM = 243.5 Sqm
12. BUILT-UP-AREA OF ELECTRIC PANEL ROOM = 85.25 Sqm
13. BUILT-UP-AREA OF CANTEEN & CREACHE = 157.43 Sqm
14. TOTAL PROPOSED BUILT-UP-AREA = 22268.085 Sqm
15. ACHIEVED F.A.R = 22268.085/36303.88 = 0.61
16. PROPOSED PARKING AREA DETAIL = 30% of B.U.A = 6680.43 Sqm  
TOTAL PROVIDED PARKING AREA = 6740.04 Sqm
17. TOTAL PROVIDED SOLID WASTE AREA = 1930 Sqm
- LANDSCAPING = (REQUIRED 20% OF TOTAL PLOT AREA) = 7260.77 Sqm
18. TOTAL PROVIDED LANDSCAPING AREA = 7512.60 Sqm
- NO. OF TREE TO BE PROVIDED = 520

SIGNATURE OF OWNER \_\_\_\_\_  
SIGNATURE OF ARCHITECT \_\_\_\_\_  
JOB TITLE-

DRAWING TITLE-  
WATER SUPPLY LAYOUT PLAN

NAME OF OWNER:-

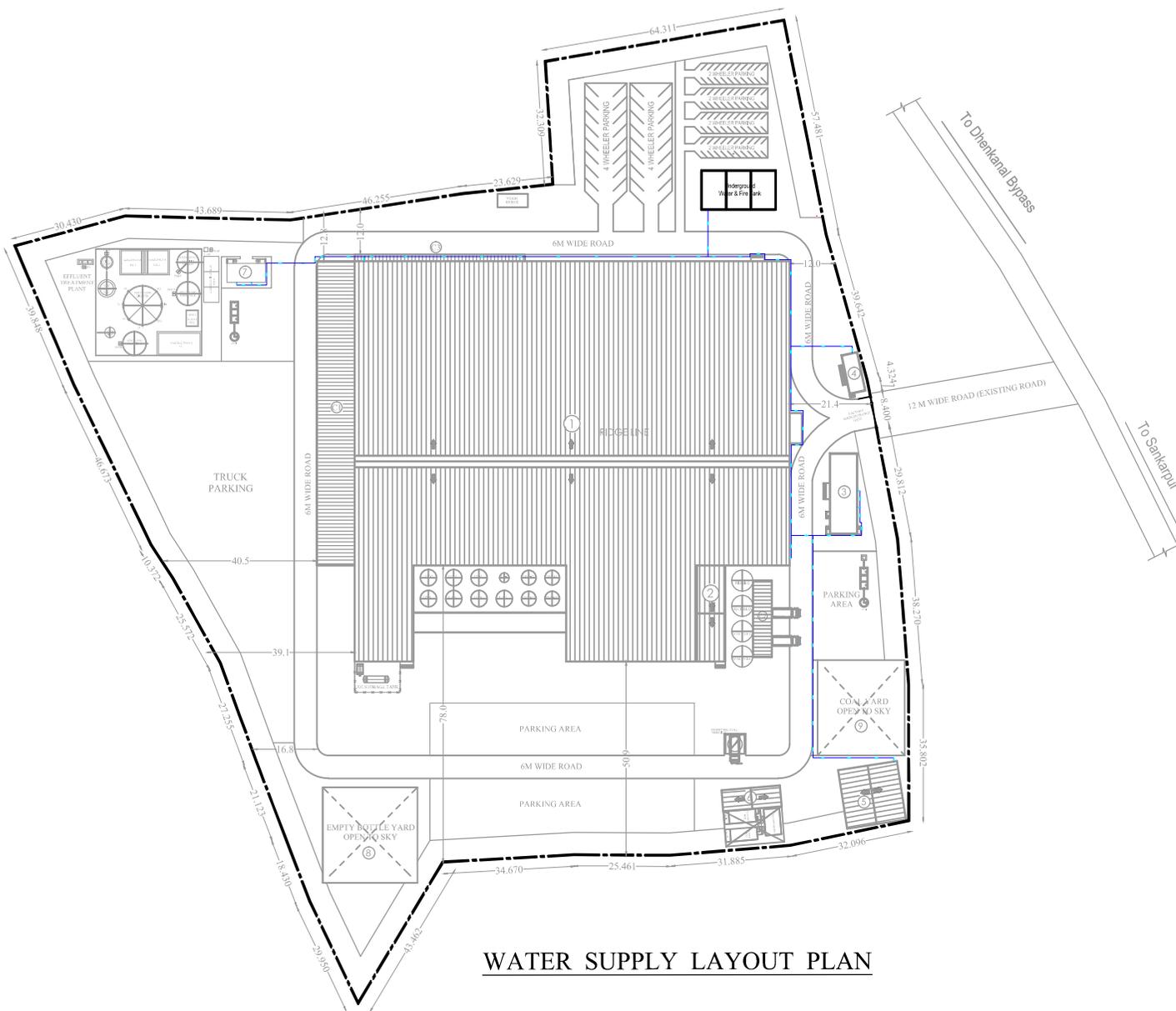
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CIVIL & ARCHITECTURAL CONSULTANT:-

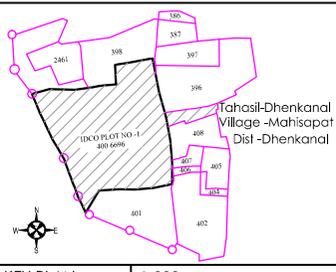
**BUILD SOL**  
ARCHITECTURE ENGINEERING  
1405, BINAYAK COMPLEX  
NAYAPALLI, BHUBANESWAR - 751012

SCALE : NTS  
DEALT BY :  
Ar. Smrutee Mohapatra  
COA Reg -CA/2016/75616

DATE : \_\_\_\_\_  
CHECKED BY :  
Er. P. Mohapatra



WATER SUPPLY LAYOUT PLAN



KEY PLAN 1:300

BUILDING & SITE DETAIL							
Sl.No.	DESCRIPTION	IN METERS	AREA IN SQM	Sl.No.	DESCRIPTION	IN METERS	AREA IN SQM
①	MAIN PLANT	—	10430.3	⑤	BOILER ROOM	15.71 X 15.5	243.5
②	MALT & RICE SECTION	7.45 X 25.5	189.975	⑥	ELECTRIC PANEL ROOM	15.5 X 5.5	85.25
③	CANTEEN, CRECHE & LABOUR REST ROOM	7.40 X 21.275	157.435	⑦	WORKER'S TOILET	10.2 X 5.0	51.00
④	SECURITY & CHANGE ROOM	4.5 X 10.5	47.25	⑧	EMPTY BOTTLE YARD	25.0 X 25.0	625.00
				⑨	COAL YARD	23.0 X 25.0	575.00



PLOT AREA STATEMENT

1. TOTAL AREA OF PLOT AS/SALE DEED = 36303.88 Sqm (9.0 Acre)
2. ABUTTING ROAD WIDTH = 12m
- PROPOSED COVERED AREA DETAIL
3. TOTAL PROPOSED COVERED AREA ON GROUND FLOOR = 11236.285 Sqm
4. ACHIEVED GROUND COVERAGE = 30.95 %
5. GROUND FLOOR MAIN PLANT BUILT-UP-AREA = 10651.85 Sqm
6. FIRST FLOOR MAIN PLANT BUILT-UP-AREA = 10651.85 Sqm
7. 2nd FLOOR MAIN PLANT BUILT-UP-AREA = 189.975 Sqm
8. 3rd FLOOR MAIN PLANT BUILT-UP-AREA = 189.975 Sqm
9. BUILT-UP-AREA OF WORKER'S TOILET = 51.00 Sqm
10. BUILT-UP-AREA OF SECURITY ROOM AND CHANGING ROOM = 47.25 Sqm
11. BUILT-UP-AREA OF BOILER ROOM = 243.5 Sqm
12. BUILT-UP-AREA OF ELECTRIC PANEL ROOM = 85.25 Sqm
13. BUILT-UP-AREA OF CANTEEN & CREACHE = 157.43 Sqm
14. TOTAL PROPOSED BUILT-UP-AREA = 22268.085 Sqm
15. ACHIEVED F.A.R = 22268.085/36303.88 = 0.61
16. PROPOSED PARKING AREA DETAIL = 30% of B.U.A = 6680.43 Sqm
- TOTAL PROVIDED PARKING AREA = 6740.04 Sqm
17. TOTAL PROVIDED SOLID WASTE AREA = 1930 Sqm
- LANDSCAPING = (REQUIRED 20% OF TOTAL PLOT AREA) = 7260.77 Sqm
18. TOTAL PROVIDED LANDSCAPING AREA = 7512.60 Sqm
- NO. OF TREE TO BE PROVIDED = 520

SIGNATURE OF OWNER

SIGNATURE OF ARCHITECT

JOB TITLE-

DRAWING TITLE-

YARD HYDRANT LAYOUT PLAN

NAME OF OWNER:-

PRINCIPAL EPC CONSULTANT:-

CIVIL & ARCHITECTURAL CONSULTANT:-



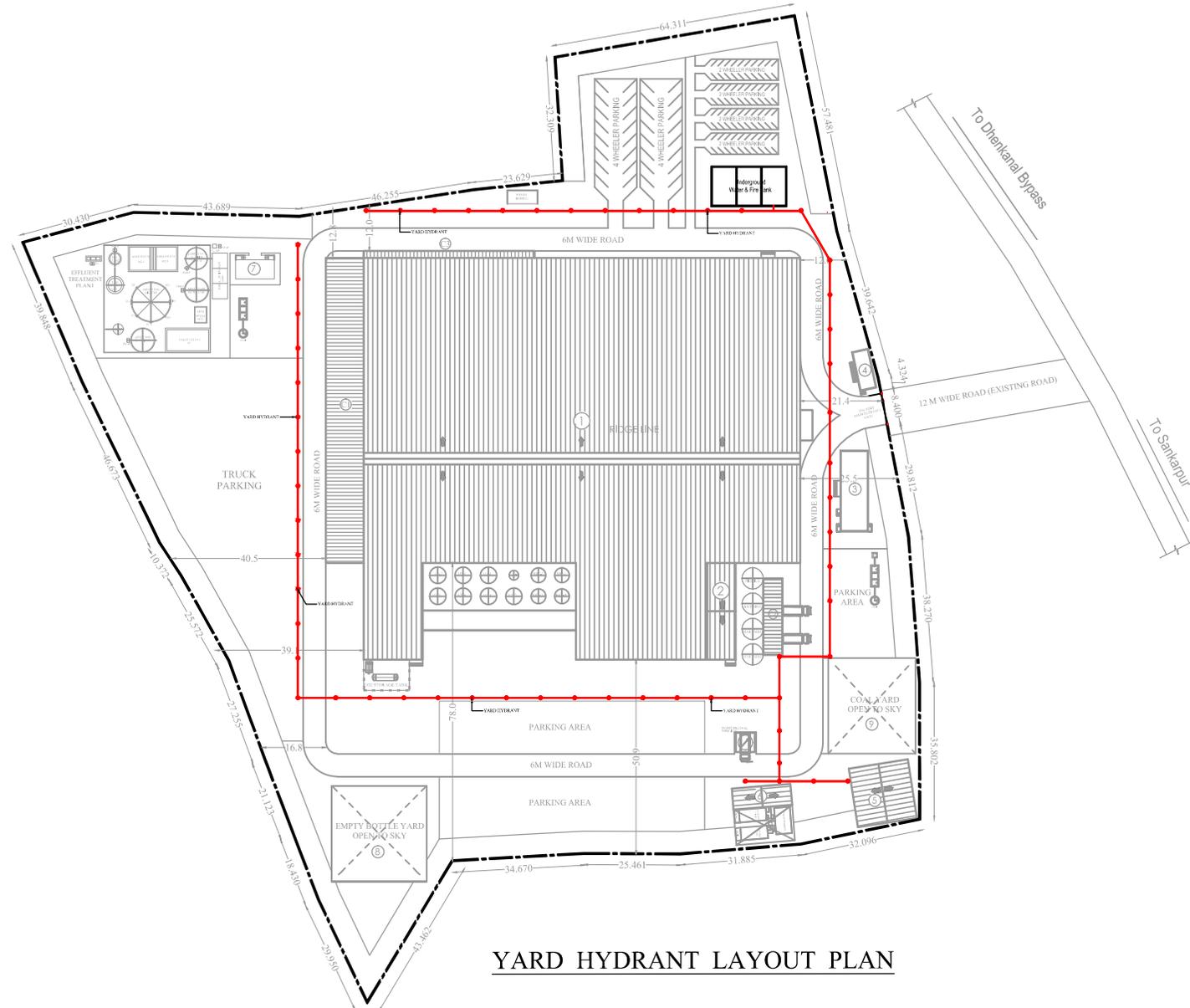
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ARCHITECTURE ENGINEERING  
1405, BINAYAK COMPLEX  
NAYAPALLI, BHUBANESWAR - 751012

SCALE :  
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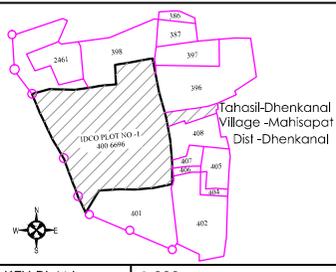
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Ar. Smrutee Mohapatra  
COA Reg -CA/2016/75616

DATE :

CHECKED BY :  
Er. P. Mohapatra

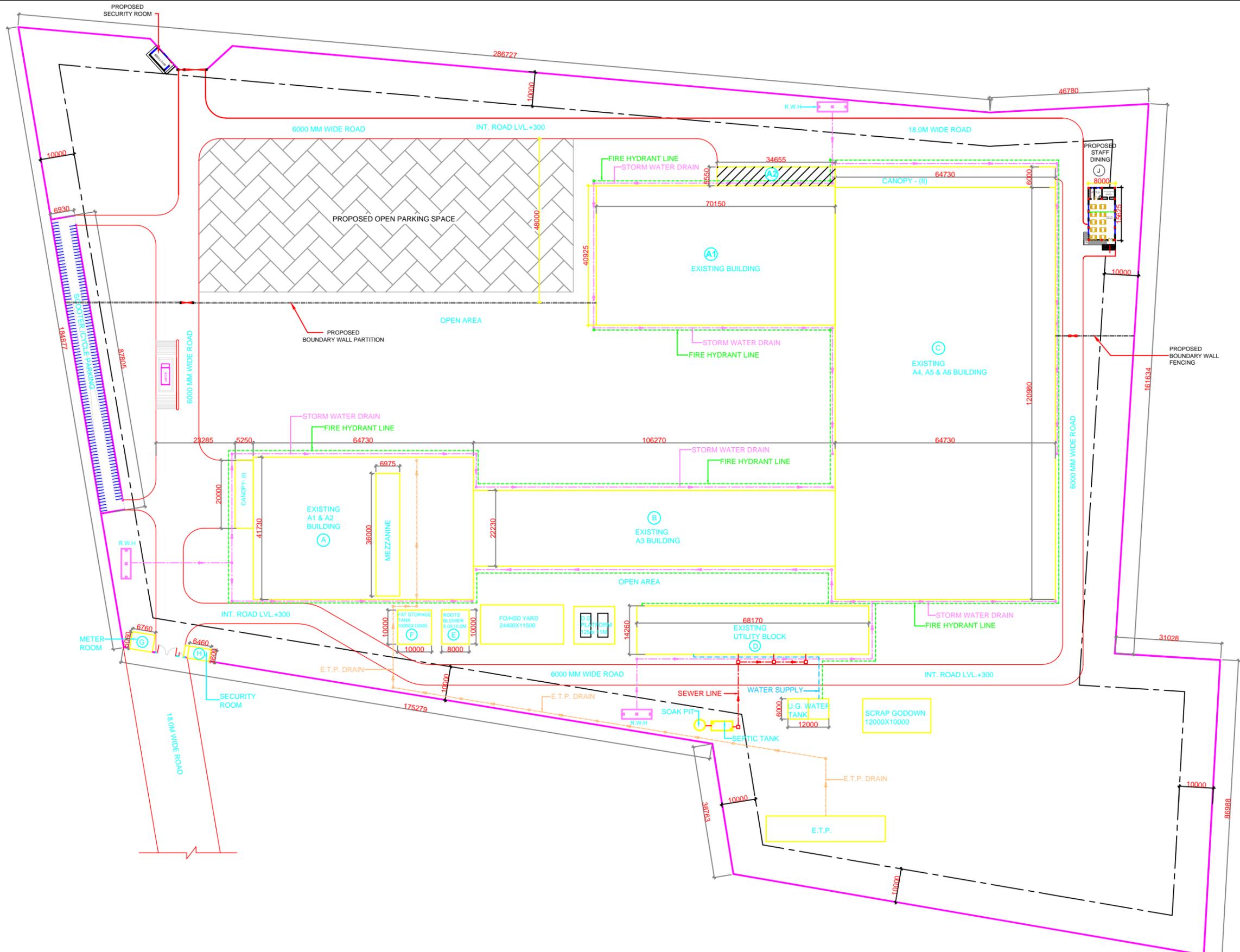


YARD HYDRANT LAYOUT PLAN



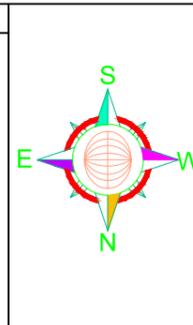
KEY PLAN 1:300

BUILDING & SITE DETAIL							
Sl.No.	DESCRIPTION	IN METERS	AREA IN SQM	Sl.No.	DESCRIPTION	IN METERS	AREA IN SQM
①	MAIN PLANT	—	10430.3	⑤	BOILER ROOM	15.71 X 15.5	243.5
②	MALT & RICE SECTION	7.45 X 25.5	189.975	⑥	ELECTRIC PANEL ROOM	15.5 X 5.5	85.25
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④	SECURITY & CHANGE ROOM	4.5 X 10.5	47.25	⑧	EMPTY BOTTLE YARD	25.0 X 25.0	625.00
				⑨	COAL YARD	23.0 X 25.0	575.00



**GENERAL NOTE :**

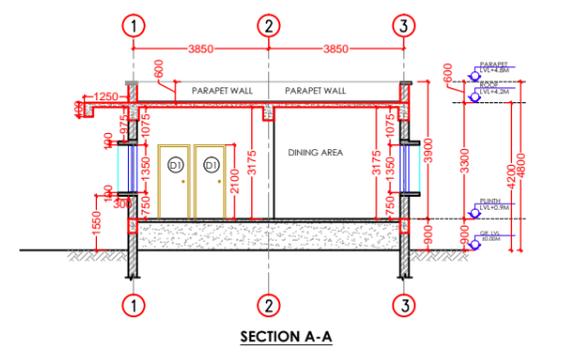
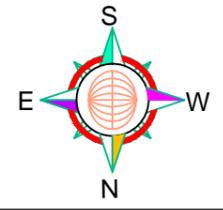
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2. DO NOT SCALE THE DRAWING.
3. REFER TO OTHER DRAWING WHERE CROSS REFERENCES ARE INDICATED.
4. ALL WALLS ARE 250MM AND 125 MM THICK.
5. FOR WALL LOCATION REFER ARCHITECHTURAL DRAWINGS.



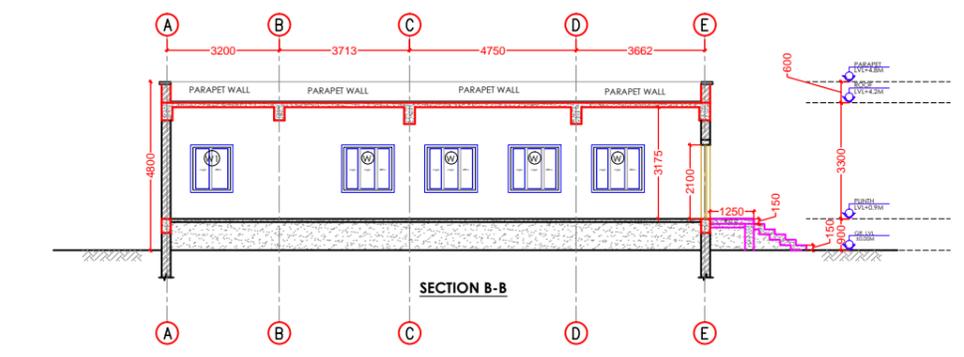
PROJECT:  
 CLIENT:  
 DESIGN CONSULTANT:  
**BUILD SOL**  
 ARCHITECTURE ENGINEERING  
 1465, NAYAPALLI, BHUBANESWAR - 751 012

THIS DRAWING IS THE PROPERTY OF BUILD SOL, WHICH SHALL NOT BE COPIED, REPRODUCED AND TRANSFERRED IN ANY MANNER EITHER IN PART OR FULL WHAT SO EVER AND SHALL BE USED ONLY FOR THE JOB ISSUED FOR.

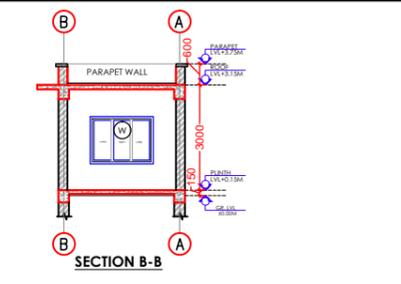
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DRAWING TITLE:	REVISION	
SITE PLAN	R0	
DRAWN & DESIGN	CHECKED & APPROVED	DATE
S.MOHAPATRA	P.MOHAPATRA	05/05/2019



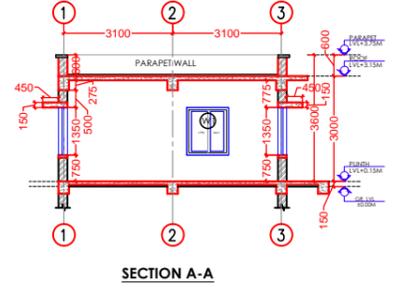
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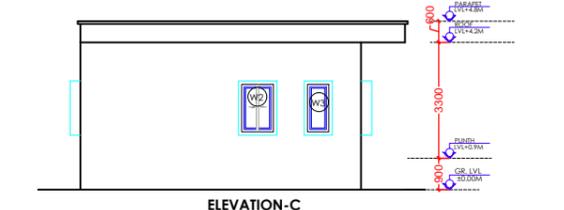
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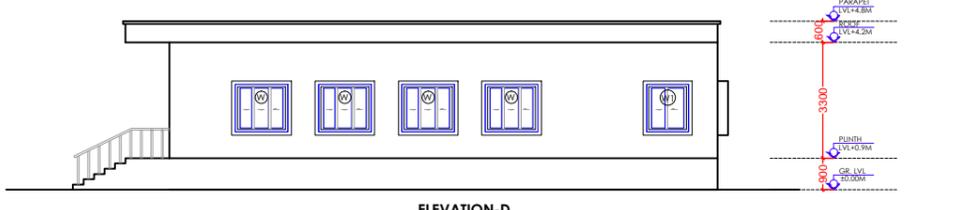
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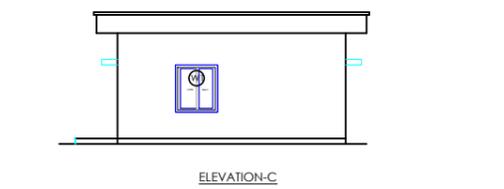
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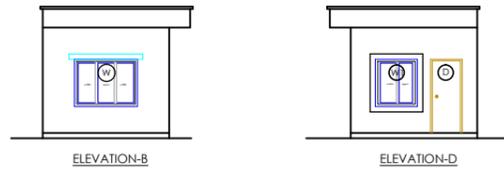
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ELEVATION-D

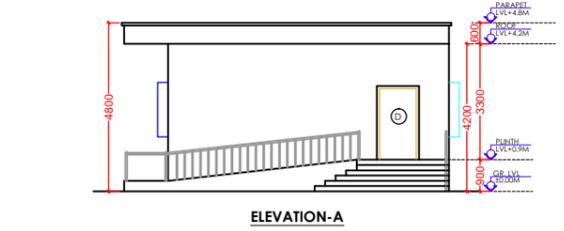


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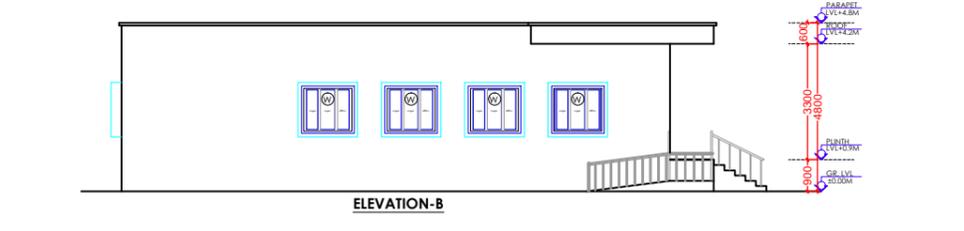


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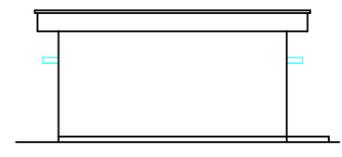
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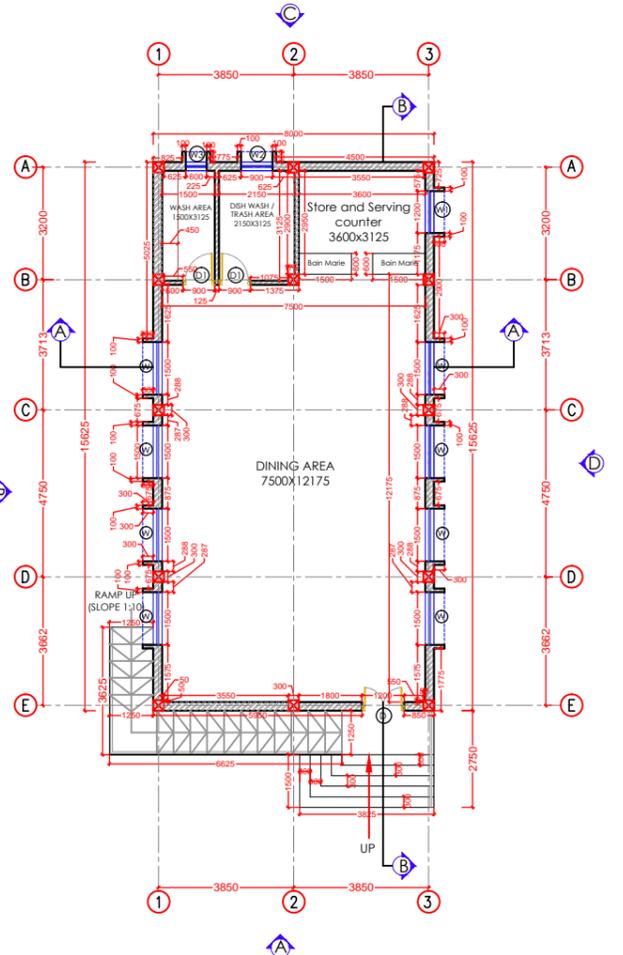
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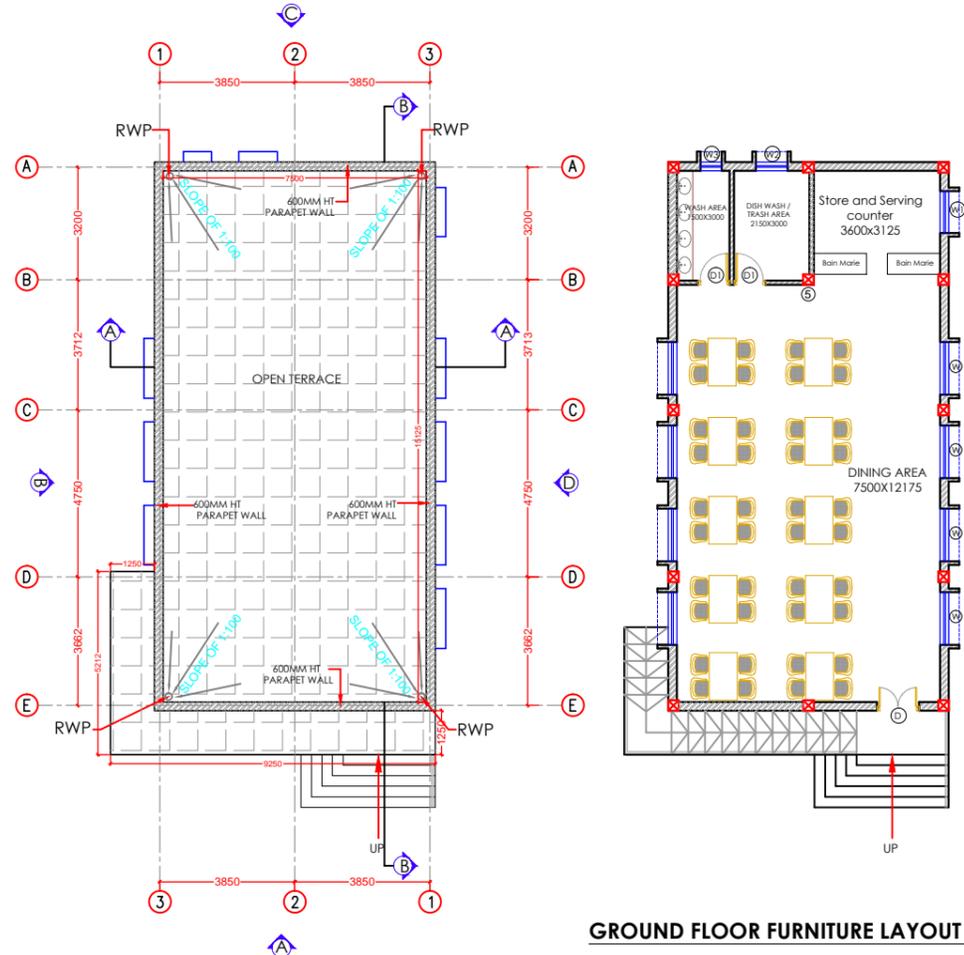
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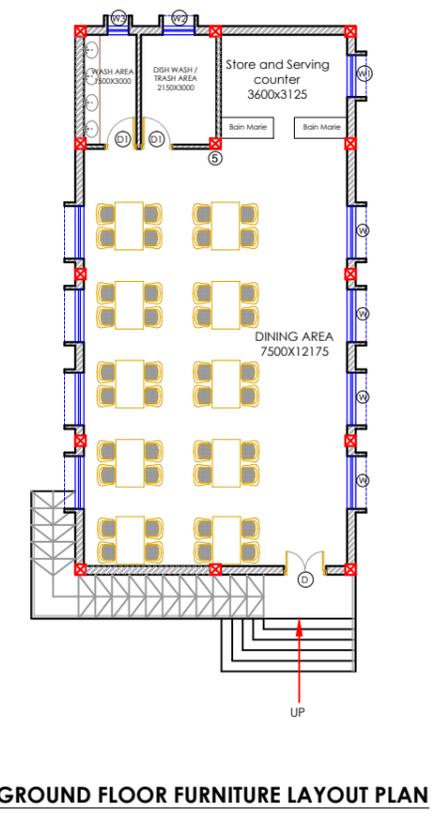
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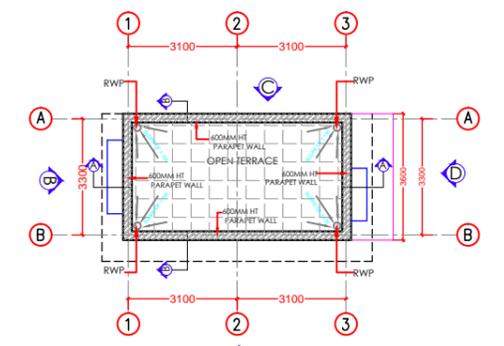
GROUND FLOOR PLAN



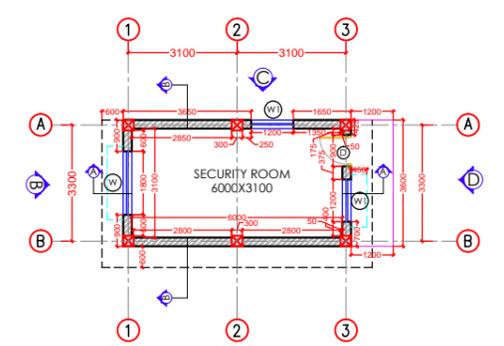
TERRACE FLOOR PLAN



GROUND FLOOR FURNITURE LAYOUT PLAN



TERRACE FLOOR PLAN



GROUND FLOOR PLAN

DOOR / WINDOW SCHEDULE(CANTEEN)			
TYPE	SIZE	DESCRIPTION	NO.OF DOOR/WINDOW
D	1200 X 2100	Aluminium Door	01
D1	900X 2100	Aluminium Door	02
W	1500X1350	Fully glazed aluminium frame sliding Window	08
W1	1200X1350	Fully glazed aluminium frame sliding Window	01
W2	900 X1350	Fully glazed aluminium frame sliding Window	01
W3	600 X1350	Fully glazed aluminium frame sliding Window	01

DOOR / WINDOW SCHEDULE(SEcurity)			
TYPE	SIZE	DESCRIPTION	NO.OF DOOR/WINDOW
D	900 X 2100	Aluminium Door	01
W	1800X1350	Fully glazed aluminium frame sliding Window	01
W1	1200 X1350	Fully glazed aluminium frame sliding Window	02

SIGNATURE OF OWNER  
AR. SMRUTEE MOHAPATRA  
SIGNATURE OF ARCHITECT

PROJECT TITLE:-

DRAWING TITLE:-  
CANTEEN & SECURITY ROOM PLAN

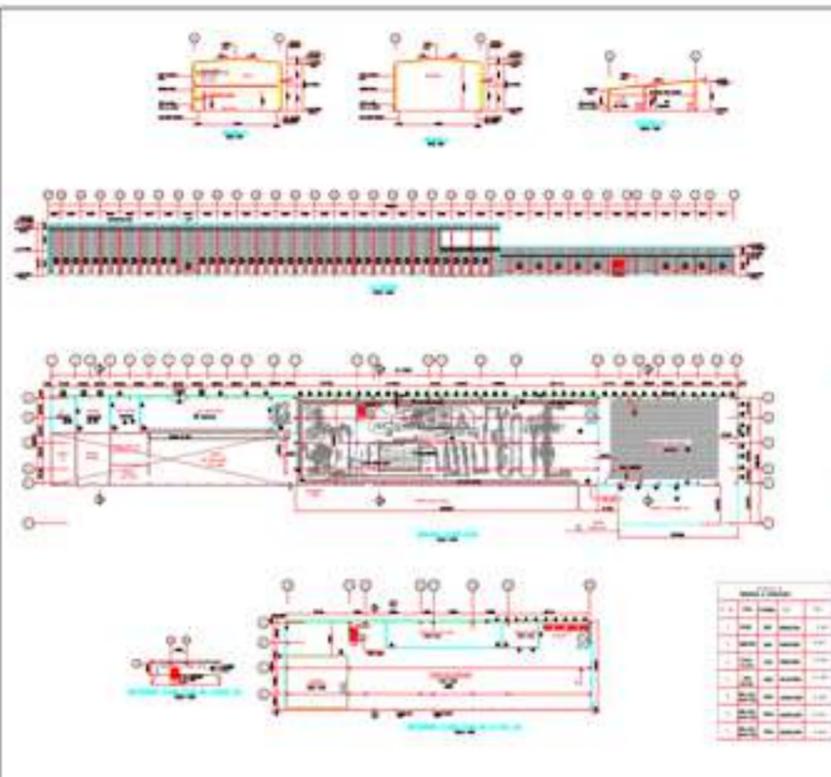
CIVIL & ARCHITECTURAL CONSULTANT:-  
**BUILD SOL**  
ARCHITECTURE ENGINEERING  
1465, BINAYAK COMPLEX  
NAYAPALLI, BHUBANESWAR - 751012

NAME OF CLIENT:-

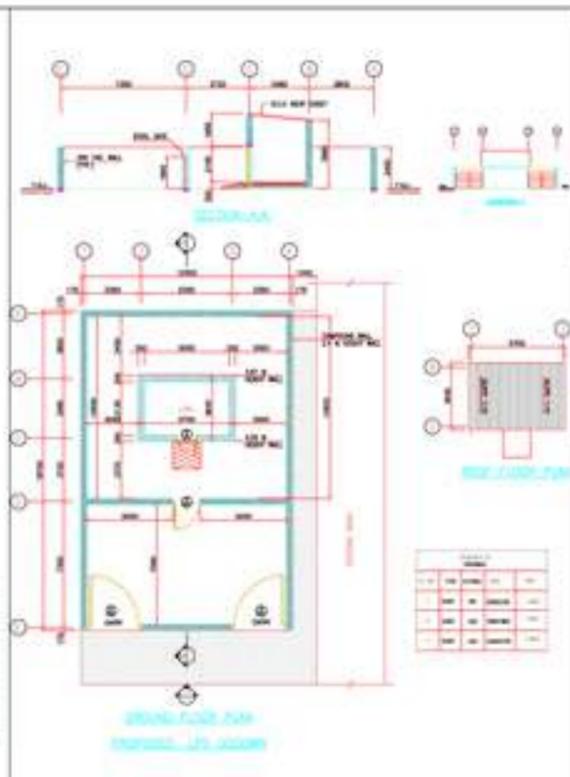
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DEALT BY:-  
Ar. Smrutee Mohapatra  
COA Reg -CA/2016/75616  
Ar. Subhramati Sethi  
COA Reg -CA/2011/51300

DATE:-  
06-06-2019  
CHECKED BY:-  
Er. P. Mohapatra

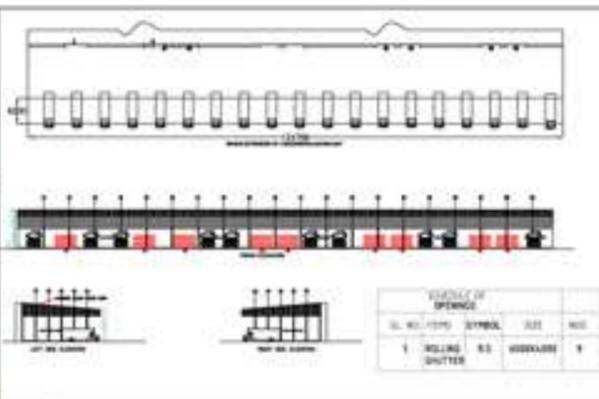




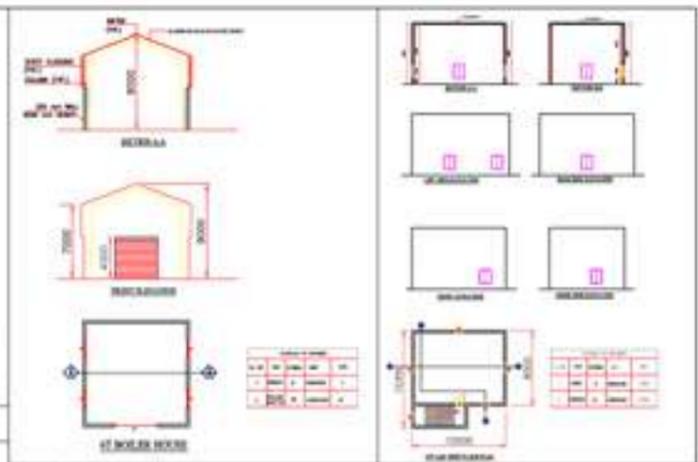
A JUICE LINE BUILDING (210)



B LPG GODOWN (225)



C LOADING UNLOADING SHED EXTENSION (226)

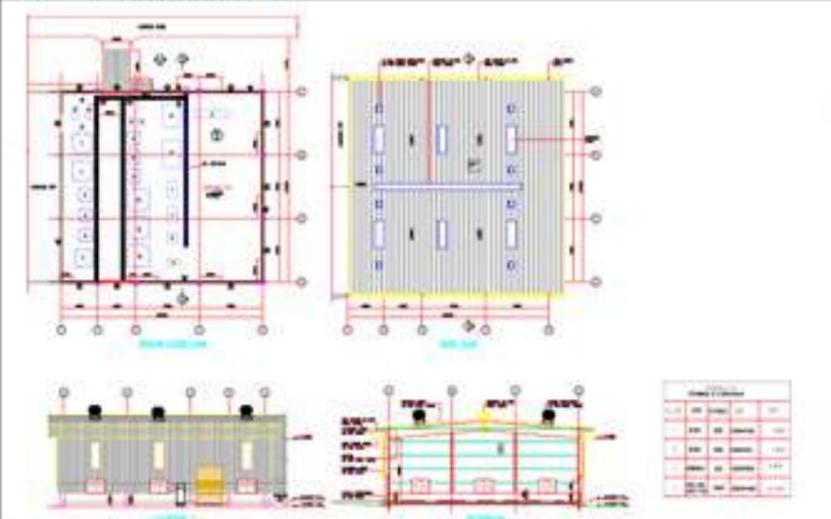


J 6T BOILER HOUSE (218)

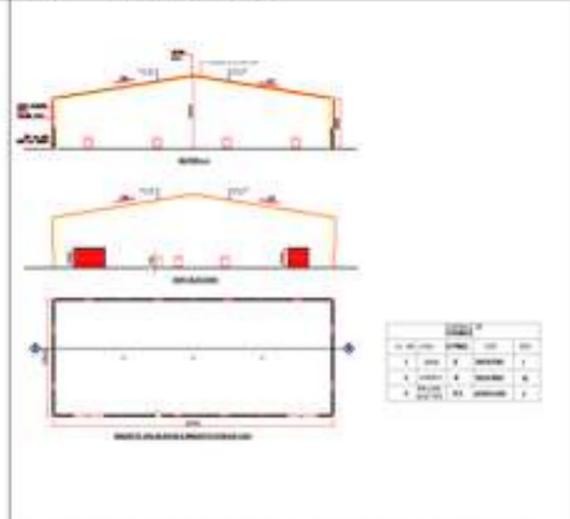
K ETP LAB PLAN DETAILS (238)

PROPOSED EXTENSION AT HINDUSTAN COCACOLA BEVERAGES PVT. LTD. AT INDUSTRIAL ESTATE KHURDA

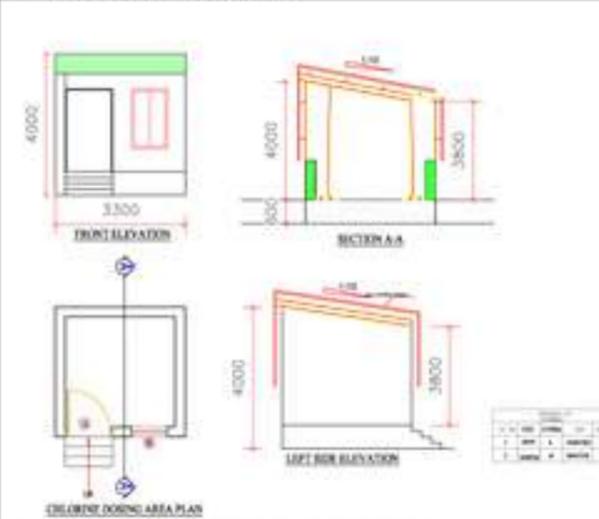
SL.NO.	DESCRIPTION	NOL.	AREA IN SQM.	TOTAL AREA IN SQM.
A.	JUICE LINE BUILDING	1.	6243.86	6243.86
B.	PROPOSED LPG GODOWN	1.	231.86	231.86
C.	TRUCK LOADING/UNLOADING SHED EXTENSION	1.	748.567	748.567
D.	WTP-3 BUILDING	1.	476.82	476.82
E.	BRIQUETTE BOILER HOUSE + BRIQUETTE STORAGE YARD	1.	1265	1265
F.	WFO SHED	1.	30	30
G.	CHLORINE DOSING AREA	1.	10.88	10.88
H.	SUGAR GODOWN	1.	510	510
I.	PLASTIC WASTE HANDLING AREA	1.	30	30
J.	6T BOILER HOUSE	1.	100	100
K.	ETP LAB	1.	93.86	93.86
L.	WARE HOUSE SHED	1.	2202.16	2202.16
M.	2 MVA UPS ROOM	1.	148	148
			<b>TOTAL AREA</b>	<b>12115.177</b>



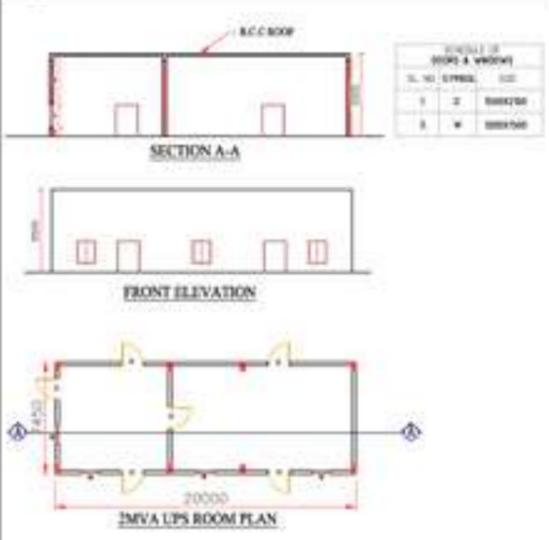
D WTP-3 BUILDING (212)



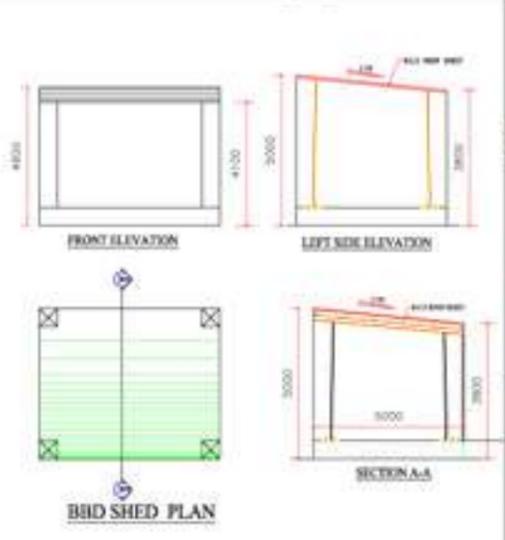
E BRIQUETTE BOILER HOUSE +BRIQUETTE STORAGE YARD (232)



G CHLORINE DOSING AREA PLAN DETAILS (234)



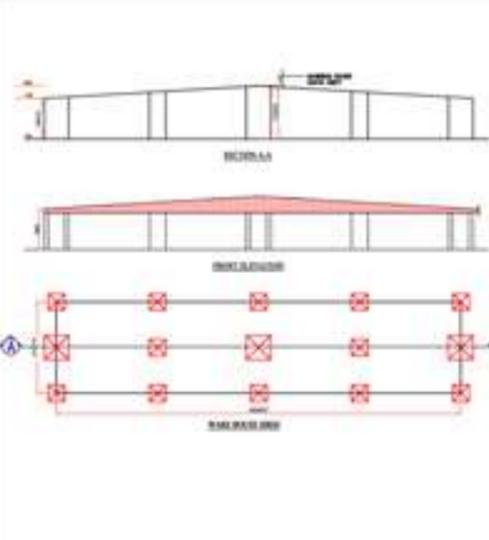
M 2MVA UPS ROOM DETAILS (228)



F BBD SHED (237)



H SUGAR GODOWN PLAN (230)



L WARE HOUSE SHED (227)

PROJECT TITLE:

DRG TITLE:-  
PROPOSED ELEVATION DRAWINGS

CLIENT:-

PROJECT CONSULTANT:- **BUILD SOL**  
1016, NH PALL, Bhubaneswar - 751 012

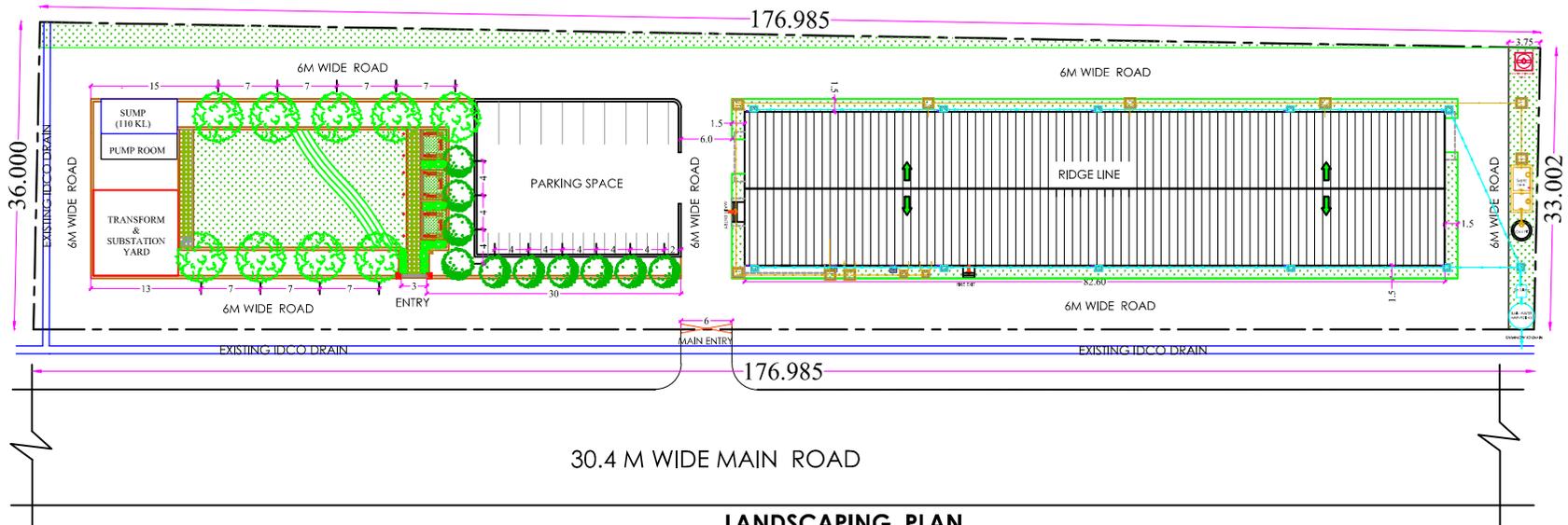
ER. P. MOHAPATRA

ARCHITECT:-

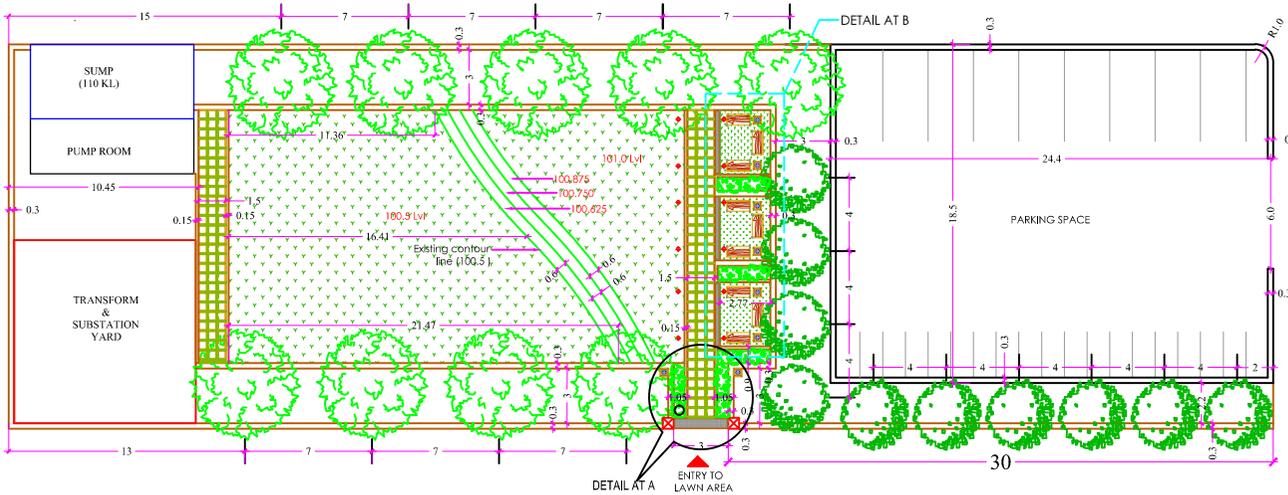
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SCALE:-

APPLICANT:-

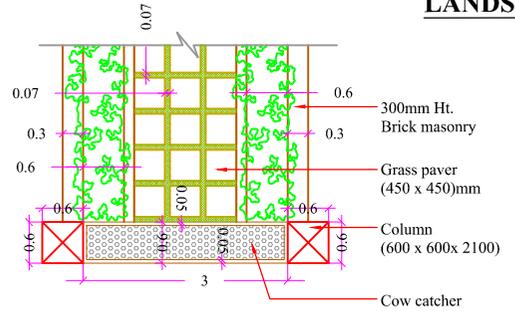


**LANDSCAPING PLAN**

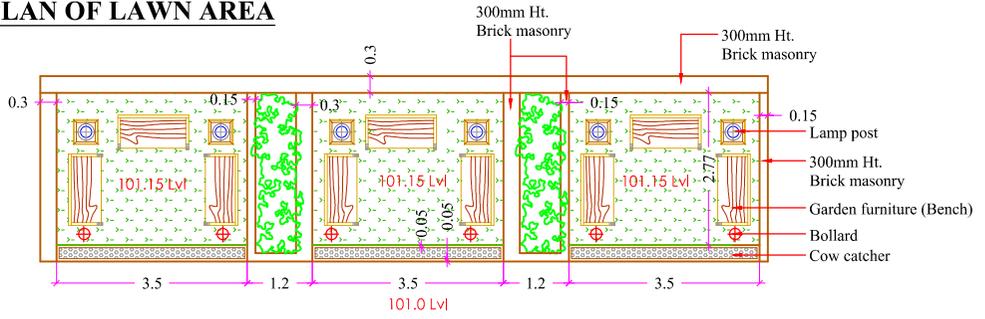


**LANDSCAPING PLAN OF LAWN AREA**

LEGEND					
TREE NO.	BOTANICAL NAME	COMMON NAME	SYMBOL	NOS	SPACING
1.	DELONIX REGIA	GULMOHAR TREE		09	7 m
2.	BUXUS MICROPHYLLA	WINTERGREEN BOXWOOD		10	4 m
3.	DURANTA GOLDIANA	GOLDEN DURANTA		15	0.3 m
4.	CYNODON DACTYLON	DOOB GRASS		Area=650 Sqm	

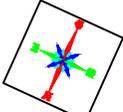


**DETAIL AT - A**



**DETAIL AT - B**

SHEET NO:-  
BUILD/ARCH/IN/WD/10



**AREA STATEMENT**

- TOTAL PLOT AREA (AS PER DOCUMENT) = 6105.14 Sqmt (1.5 Acre)
  - ABUTTING ROAD WIDTH = 6.0 mt
  - TOTAL BUILT-UP-AREA = 1486.81 Sqmt
  - F.A.R. = TOTAL B.U.A / TOTAL PLOT AREA = 1486.81 / 6105.14 = 0.24
  - PARKING AREA (REQUIRED = 30% OF TOTAL BUILT-UP-AREA) = 0.3 x 1486.81 = 446.04 Sqmt
  - LANDSCAPING (REQUIRED 20% OF PLOT AREA) = 1221.01 Sqmt
- TOTAL PROVIDED PARKING AREA = 453 Sqmt  
TOTAL PROVIDED LANDSCAPING AREA = 1274.12 Sqmt

**WORKING DRAWING**

**DRAWING TITLE:-**  
PROPOSED LANDSCAPING PLAN

**PROJECT CONSULTANT:-**  
 **BUILD SOL**  
ARCHITECTURE ENGINEERING  
1405, BHAYKAR COMPLEX  
MAYAPALLI, BANGALORE - 70002

<b>DEALT BY:-</b> Ar. Smrutee Mohapatra COA Reg -CA/2016/75616	<b>CHECKED BY:-</b> Er. P. Mohapatra
<b>DATE:-</b> 22-11-2017	<b>SCALE:-</b> NOT TO SCALE

SHEET NO.:-

BUILD/ARCH/IN/WD/05

**NOTE :-**

1. ALL DIMENSIONS AND LEVELS ARE IN M.
2. AREAS WHICH ARE NOT HAVING NATURAL VENTILATION ARE FACILITATED BY FORCED VENTILATION AND HVAC SYSTEM.
3. NO DIMENSION SHALL BE SCALED ONLY WRITTEN DIMENSION SHALL BE FOLLOWED.
4. 15mm FLOOR DROP TO BE PROVIDED IN TOILET AREA.

**AREA STATEMENT**

1. TOTAL PLOT AREA (AS PER DOCUMENT) = 6105.14 Sqmt (1.5 Acre)
2. TOTAL BUILT-UP-AREA = 1486.81 Sqmt
3. F.A.R. = TOTAL B.U.A / TOTAL PLOT AREA =  $1486.81 / 6105.14 = 0.24$

**WORKING DRAWING**

**DRAWING TITLE:-**

PLANT BUILDING (ELEVATION AND SECTION)

**PROJECT CONSULTANT:-**



DEALT BY:-

Ar. Smrutee Mohapatra  
COA Reg -CA/2016/75616

CHECKED BY:-

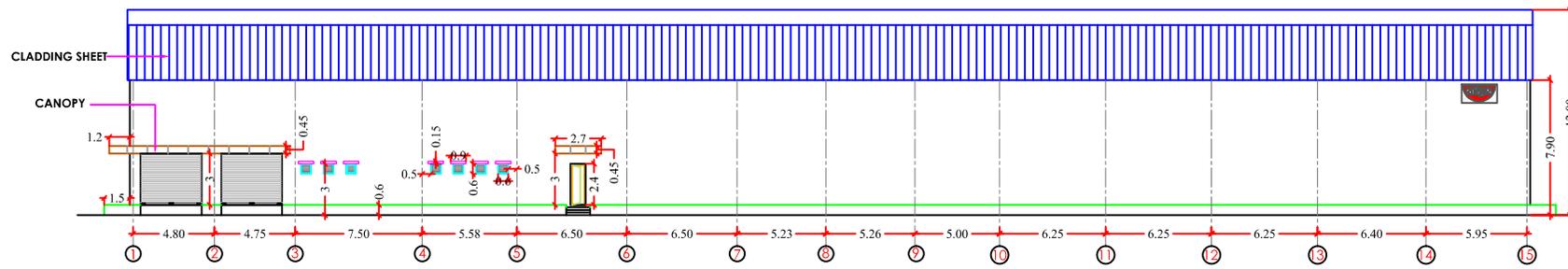
Er. P. Mohapatra

DATE:-

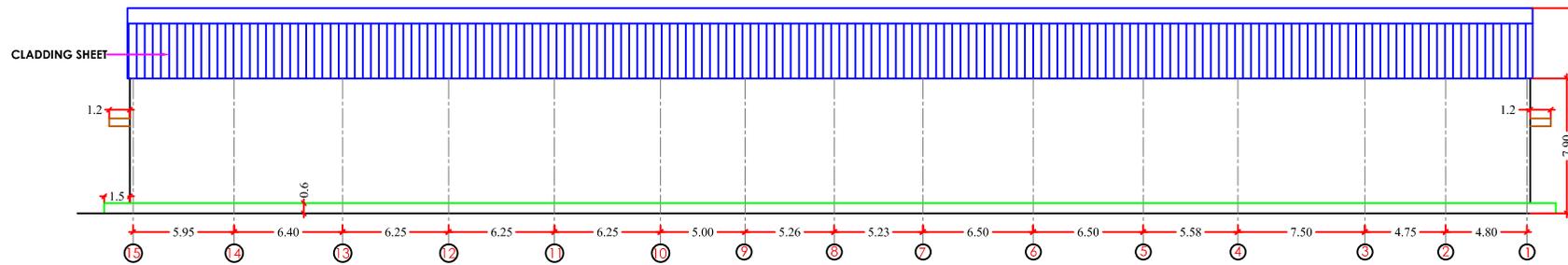
22-12-2017

SCALE:-

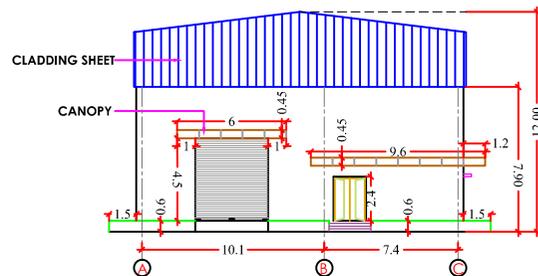
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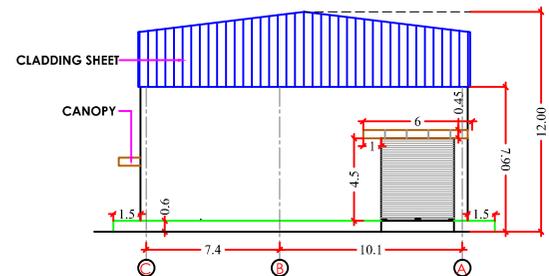
**ELEVATION-A**



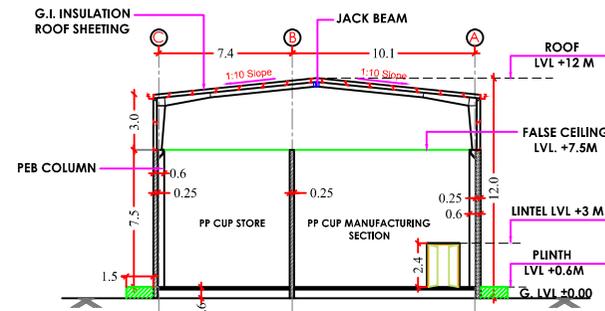
**ELEVATION-C**



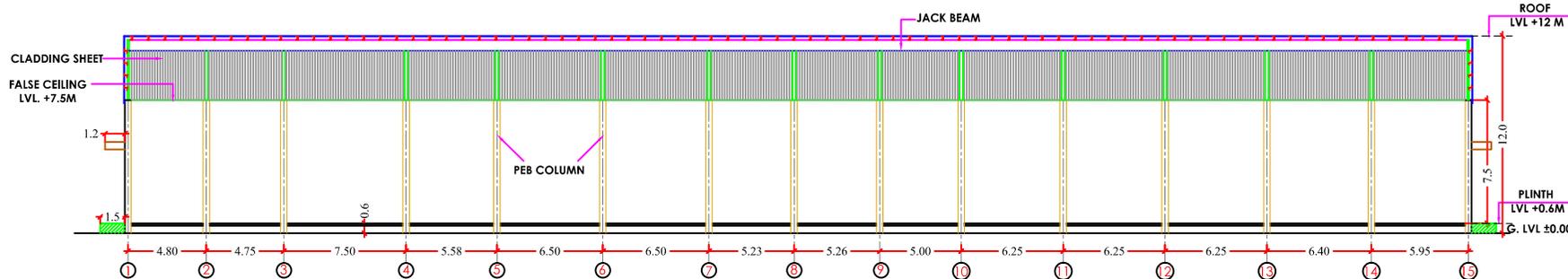
**ELEVATION-B**



**ELEVATION-D**



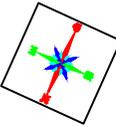
**SECTION X-X'**



**SECTION - YY'**

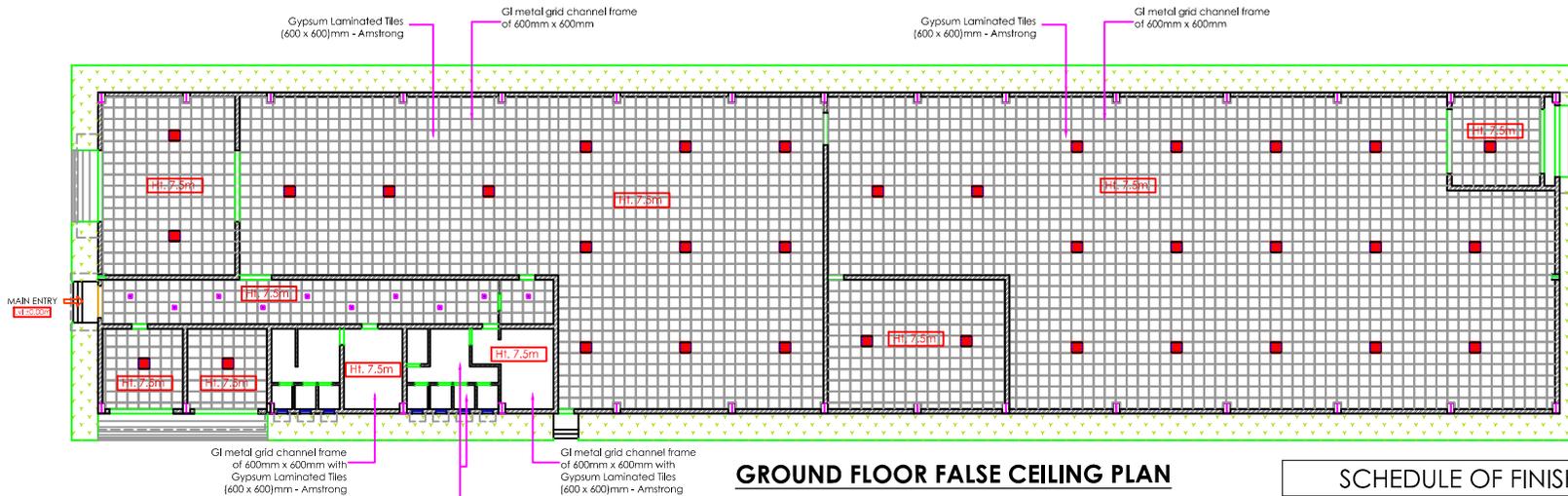
SHEET NO:-

BUILD/ARCH/IN/WD/07

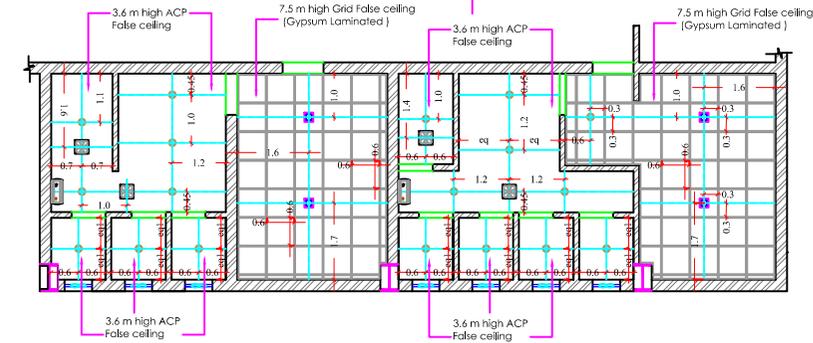


**NOTE :-**

1. ALL DIMENSIONS AND LEVELS ARE IN M.
2. AREAS WHICH ARE NOT HAVING NATURAL VENTILATION ARE FACILITATED BY FORCED VENTILATION AND HVAC SYSTEM.
3. NO DIMENSION SHALL BE SCALED ONLY WRITTEN DIMENSION SHALL BE FOLLOWED.
4. 15mm FLOOR DROP TO BE PROVIDED IN TOILET AREA.



**GROUND FLOOR FALSE CEILING PLAN**



**TOILET AND CHANGE ROOM FALSE CEILING LIGHT PLAN**

**LEGENDS**

SYMBOL	DESCRIPTION
	40W LED High bay light (6000K) - Jaquar
	22W LED Square Panel light (4000K) - Jaquar
	15W LED Panel light (4000K) - Jaquar
	Wall mounted exhaust fan (Havells)
	Ceiling mounted exhaust fan (Havells)
	40 ltrs. Gysrer (Jaquar)

**SCHEDULE OF FINISHES**

DESCRIPTION	CEILING
MATERIAL UNLOADING AREA	Grid False ceiling at a height of 7.5m from finished floor lvl.
PP CUP MANUFACTURING SECTION	Gypsum Laminated Tiles supported with GI metal Grid channels.
PP CUP STORAGE	
COMPOSITE CUP MANUFACTURING SECTION	
COMPOSITE CUP STORAGE	
AIR SHOWER	
COMPRESSOR ROOM	
ELECTRIC ROOM	
CORRIDOR	
STAFF CHANGE ROOM LADIES	
STAFF CHANGE ROOM GENTS	
STAFF TOILET LADIES	ACP False ceiling at a height of 3.6m from finished floor lvl.
STAFF TOILET GENTS	

**WORKING DRAWING**

**DRAWING TITLE:-**

PLANT BUILDING (FALSE CEILING AND LIGHT PLAN)

**PROJECT CONSULTANT:-**



**DEALT BY:-**

Ar. Smrutee Mohapatra  
COA Reg -CA/2016/75616

**CHECKED BY:-**

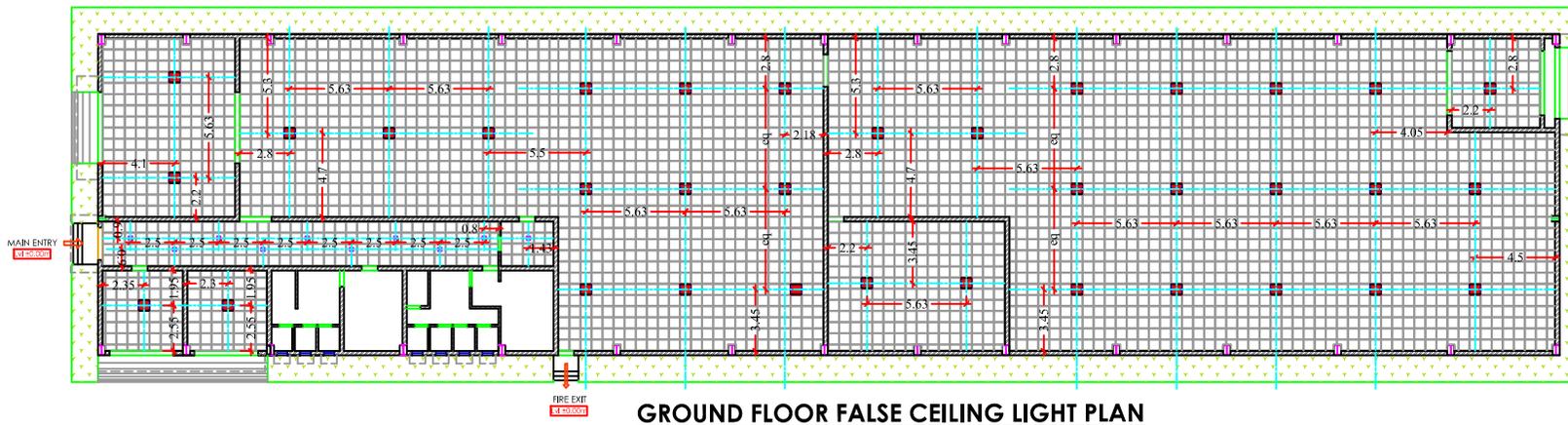
Er. P. Mohapatra

**DATE:-**

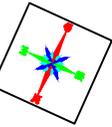
22-12-2017

**SCALE:-**

NOT TO SCALE



**GROUND FLOOR FALSE CEILING LIGHT PLAN**



**NOTE :-**

1. ALL DIMENSIONS AND LEVELS ARE IN M.
2. AREAS WHICH ARE NOT HAVING NATURAL VENTILATION ARE FACILITATED BY FORCED VENTILATION AND HVAC SYSTEM.
3. NO DIMENSION SHALL BE SCALED ONLY WRITTEN DIMENSION SHALL BE FOLLOWED.
4. 15mm FLOOR DROP TO BE PROVIDED IN TOILET AREA.

**AREA STATEMENT**

1. TOTAL PLOT AREA (AS PER DOCUMENT) = 6105.14 Sqmt (1.5 Acre)
2. TOTAL BUILT-UP-AREA = 1486.81 Sqmt
3. F.A.R. = TOTAL B.U.A / TOTAL PLOT AREA = 1486.81 / 6105.14 = 0.24

DOOR WINDOW SCHEDULE			
TYPE	SIZE	DESCRIPTION	QUANTITY
RS	4.0 X 4.5	ROLLING SHUTTER	3
RS1	3.6 X 4.5	ROLLING SHUTTER	4
D	1.8 X 2.4	M.S. POWDER COATED DOUBLE DOOR	1
D1	0.9 X 2.4	M.S. POWDER COATED SINGLE DOOR	6
D2	0.75x2.4	PVC DOOR	10
SD	1.8 X 2.4	STEEL DOUBLE DOOR	2
SD1	0.9 X 2.4	STEEL SINGLE DOOR	3
V	0.6X0.6	VENTILATOR	8

**WORKING DRAWING**

**DRAWING TITLE:-**

PLANT BUILDING (FLOORING PLAN & FINISHES DETAIL)

**PROJECT CONSULTANT:-**

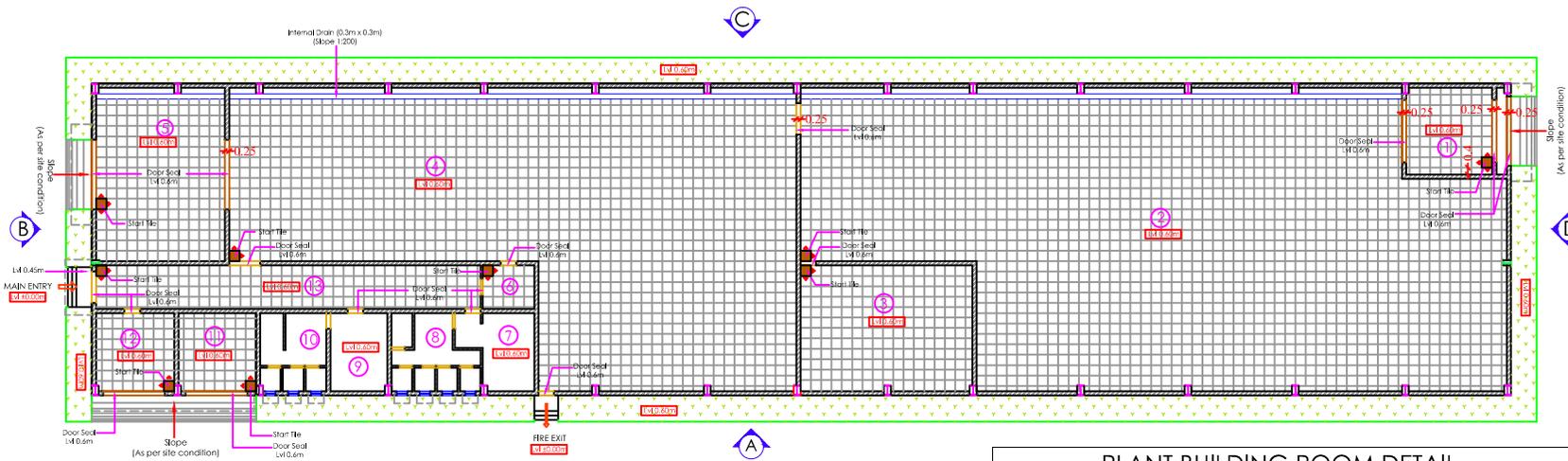


**DEALT BY:-**  
Ar. Smrutee Mohapatra  
COA Reg -CA/2016/75616

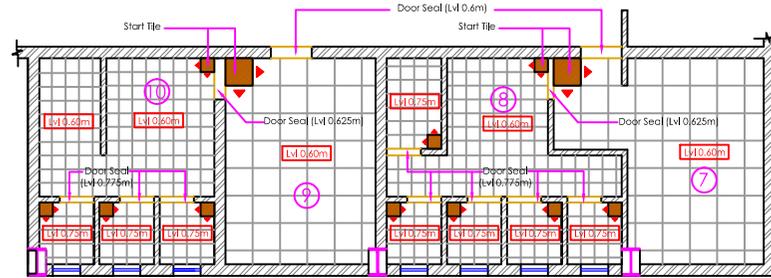
**CHECKED BY:-**  
Er. P. Mohapatra

**DATE:-**  
22-12-2017

**SCALE:-**  
NOT TO SCALE



**GROUND FLOOR FLOORING PLAN**

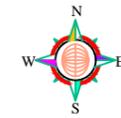


**TOILET AND CHANGE ROOM FLOORING PLAN**

PLANT BUILDING ROOM DETAIL			
Sl.No.	DESCRIPTION	IN METERS	AREA IN SQM
1	MATERIAL UNLOADING AREA	5 X 5	25
2	PP CUP MANUFACTURING SECTION	-	610
3	PP CUP STORAGE	10 X 7.25	72.5
4	COMPOSITE CUP MANUFACTURING SECTION	-	442
5	COMPOSITE CUP STORAGE	7.5 X 10	75
6	AIR SHOWER	3.0 X 2.5	7.5
7	STAFF CHANGE ROOM LADIES	3 X 4.5	13.5
8	STAFF TOILET LADIES	5.175 X 4.5	23.2875
9	STAFF CHANGE ROOM GENTS	3.3X4.5	14.85
10	STAFF TOILET GENTS	3.85X4.5	17.325
11	COMPRESSOR ROOM	4.5X4.5	20.25
12	ELECTRIC ROOM	4.5X4.5	20.25

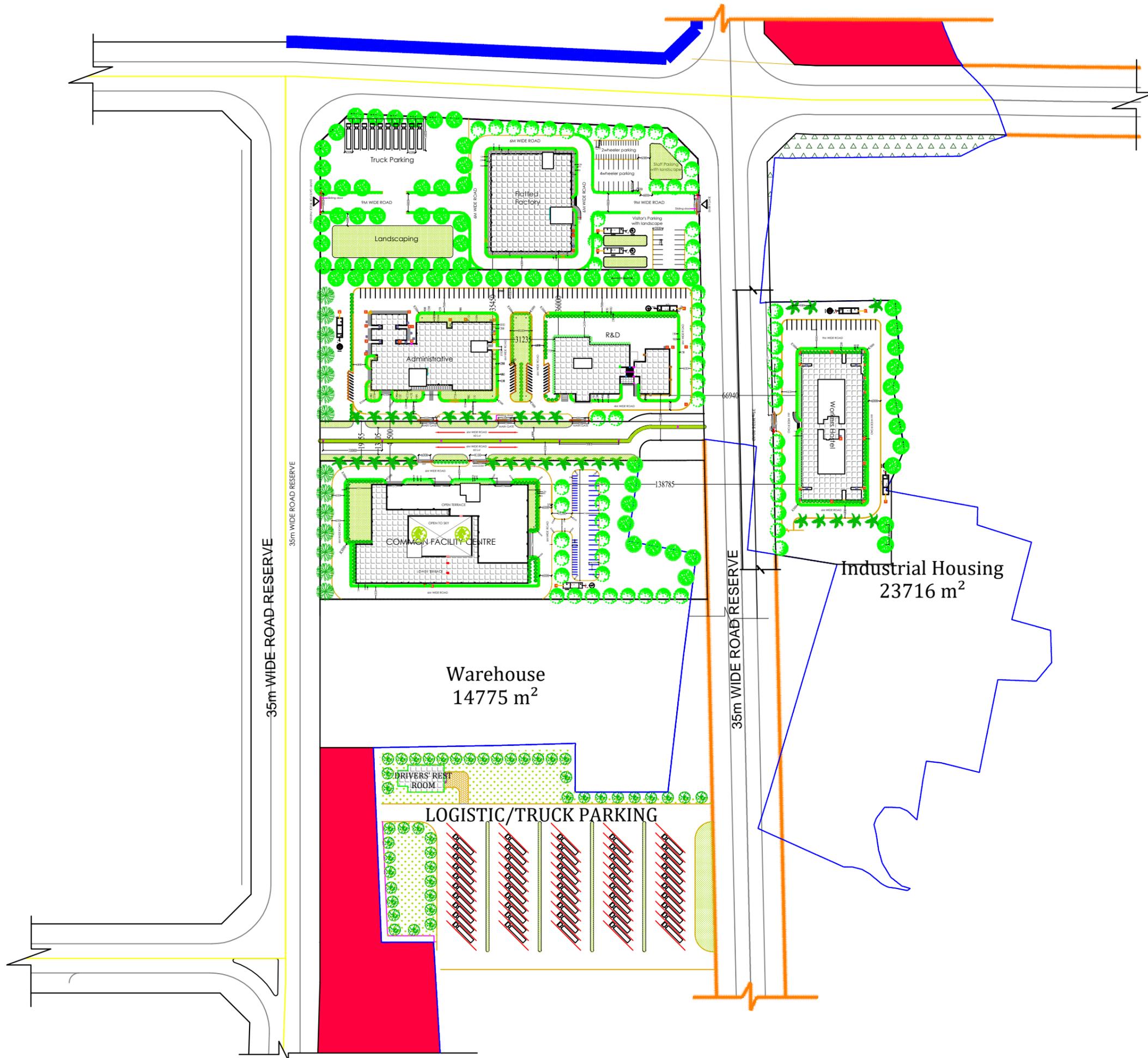
**SCHEDULE OF INTERNAL FINISHES**

DESCRIPTION	FLOOR FINISH	SKIRTING / DADO	WALL	CEILING
MATERIAL UNLOADING AREA	Johnson Endura Industrial Tile Sandexplus series 600X600)mm 10mm thick - Grey Plus	150mm height Skirting of Johnson Endura Industrial Tile Sandexplus series (600X600)mm 10mm thick - Grey Plus	Plastic emulsion paint over POP finished Lvl surface	Grid False ceiling at a height of 7.5m from finished floor lvl.
PP CUP MANUFACTURING SECTION				
PP CUP STORAGE			Plastic emulsion paint over POP finished Lvl surface	Gypsum Laminated Tiles supported with GI metal Grid channels.
COMPOSITE CUP MANUFACTURING SECTION		1200mm height Dado Johnson Marbonite Vitrified Tile (600X600)mm - Monroe		
COMPOSITE CUP STORAGE			Plastic emulsion paint over POP finished Lvl surface	Gypsum Laminated Tiles supported with GI metal Grid channels.
AIR SHOWER				
COMPRESSOR ROOM		150mm height Skirting of Johnson Endura Industrial Tile Sandexplus series (600X600)mm 10mm thick - Grey Plus	Plastic emulsion paint over POP finished Lvl surface	Gypsum Laminated Tiles supported with GI metal Grid channels.
ELECTRIC ROOM				
CORRIDOR			Plastic emulsion paint over POP finished Lvl surface	Gypsum Laminated Tiles supported with GI metal Grid channels.
STAFF CHANGE ROOM LADIES	Johnson Marbonite Vitrified Tile (600X600)mm - Monroe	1200mm height Dado Johnson Marbonite Vitrified Tile (600X600)mm - Monroe		
STAFF CHANGE ROOM GENTS			Plastic emulsion paint over POP finished Lvl surface	Gypsum Laminated Tiles supported with GI metal Grid channels.
STAFF TOILET LADIES	Johnson Digital Tile Collection (300X300)mm Cordinated Floor Tile - Capa Verde	2400 mm height Dado Johnson (300X450)mm Digital Wall Tile - Capa Verde LT and Capa Verde DK		
STAFF TOILET GENTS			Plastic emulsion paint over POP finished Lvl surface	ACP False ceiling at a height of 3.6m from finished floor lvl.



**AREA STATEMENT**

R & D BUILT-UP-AREA=1395 Sqm  
 FLATTED FACTORY BUILT-UP-AREA=4171.34 Sqm  
 COMMON FACILITY CENTRE BUILT-UP-AREA=5295.838 Sqm  
 ADMINISTRATIVE COMPLEX BUILT-UP-AREA=2093 Sqm  
 LOGISTIC/TRUCK PARKING BUILT-UP-AREA=295 Sqm  
 WORKERS HOSTEL BUILT-UP-AREA=3392.11 Sqm



SIGNATURE OF OWNER	AR. SMRUTEE MOHAPATRA SIGNATURE OF ARCHITECT
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**PROJECT TITLE:-**

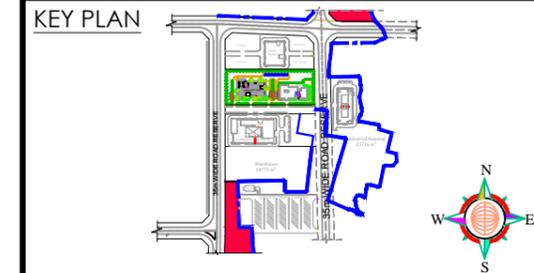
**DRAWING TITLE:-**  
 SITE LAYOUT PLAN (DETAIL AT 'A') OF EMC PARK

**CIVIL & ARCHITECTURAL CONSULTANT:-**  
 **BUILD SOL**  
 ARCHITECTURE ENGINEERING  
 1465, BINAYAK COMPLEX  
 NAYAPALLI, BHUBANESWAR - 751012

**NAME OF OWNER:-**

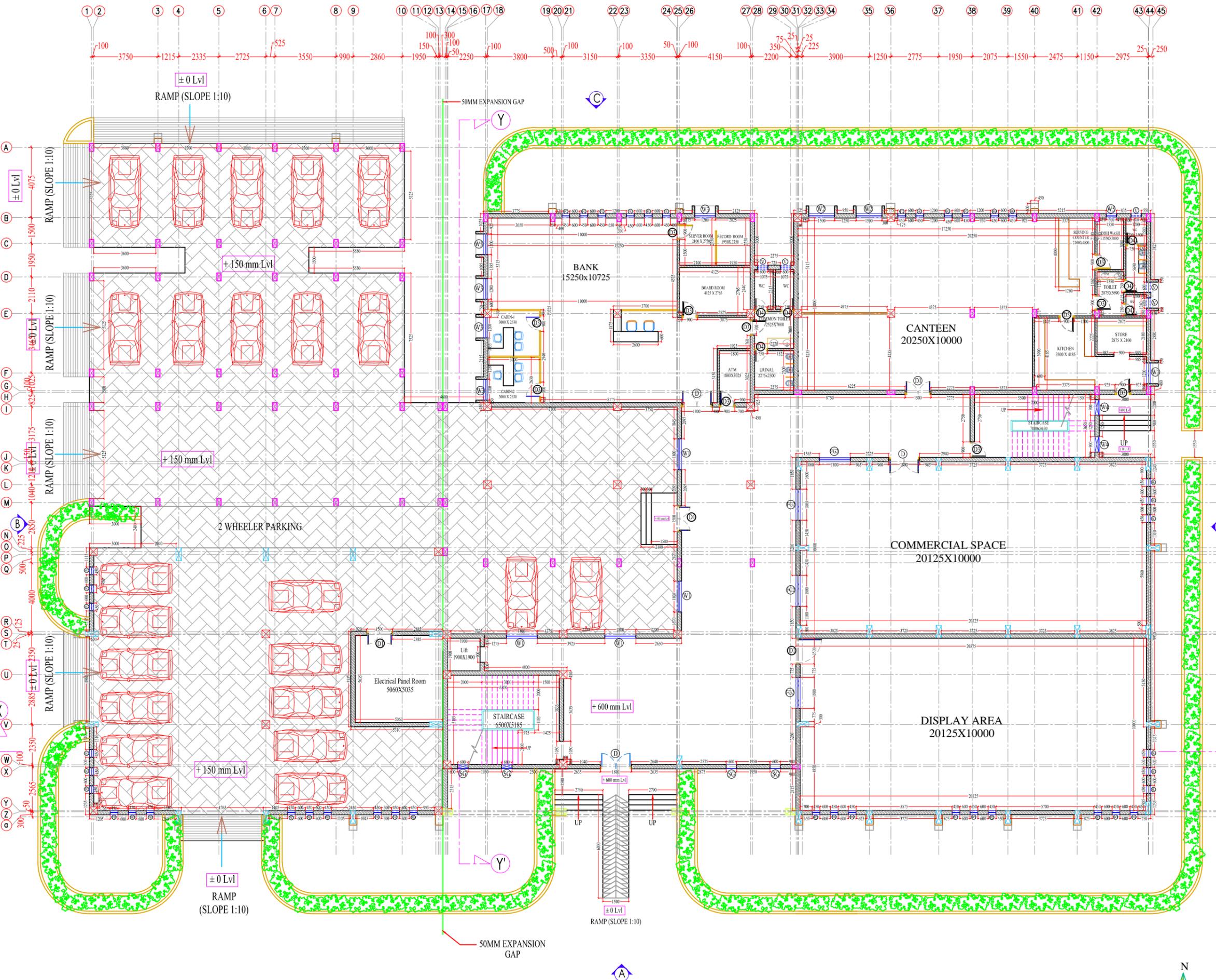
<b>SCALE:-</b> N.T.S	<b>DEALT BY:-</b>	Ar. Smrutee Mohapatra COA Reg -CA/2016/75616 Ar. Subhramati Sethi COA Reg -CA/2011/51300
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<b>DATE:-</b> 10-09-2020	<b>CHECKED BY:-</b>	Er. P. Mohapatra
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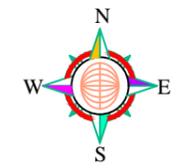


**AREA STATEMENT**

GROUND FLOOR BUILT-UP-AREA=1187.0 Sqm  
 FIRST FLOOR BUILT-UP-AREA=2057.10 Sqm  
 TOTAL BUILT-UP-AREA = 3244.10 Sqm



**GROUND FLOOR WORKING PLAN**



SIGNATURE OF OWNER  
 AR. SMRUTEE MOHAPATRA  
 SIGNATURE OF ARCHITECT

**PROJECT TITLE:-**

**DRAWING TITLE:-**  
 GROUND FLOOR WORKING LAYOUT PLAN OF  
 ADMINISTRATIVE COMPLEX (REVISED)

**CIVIL & ARCHITECTURAL CONSULTANT:-**



**NAME OF OWNER:-**

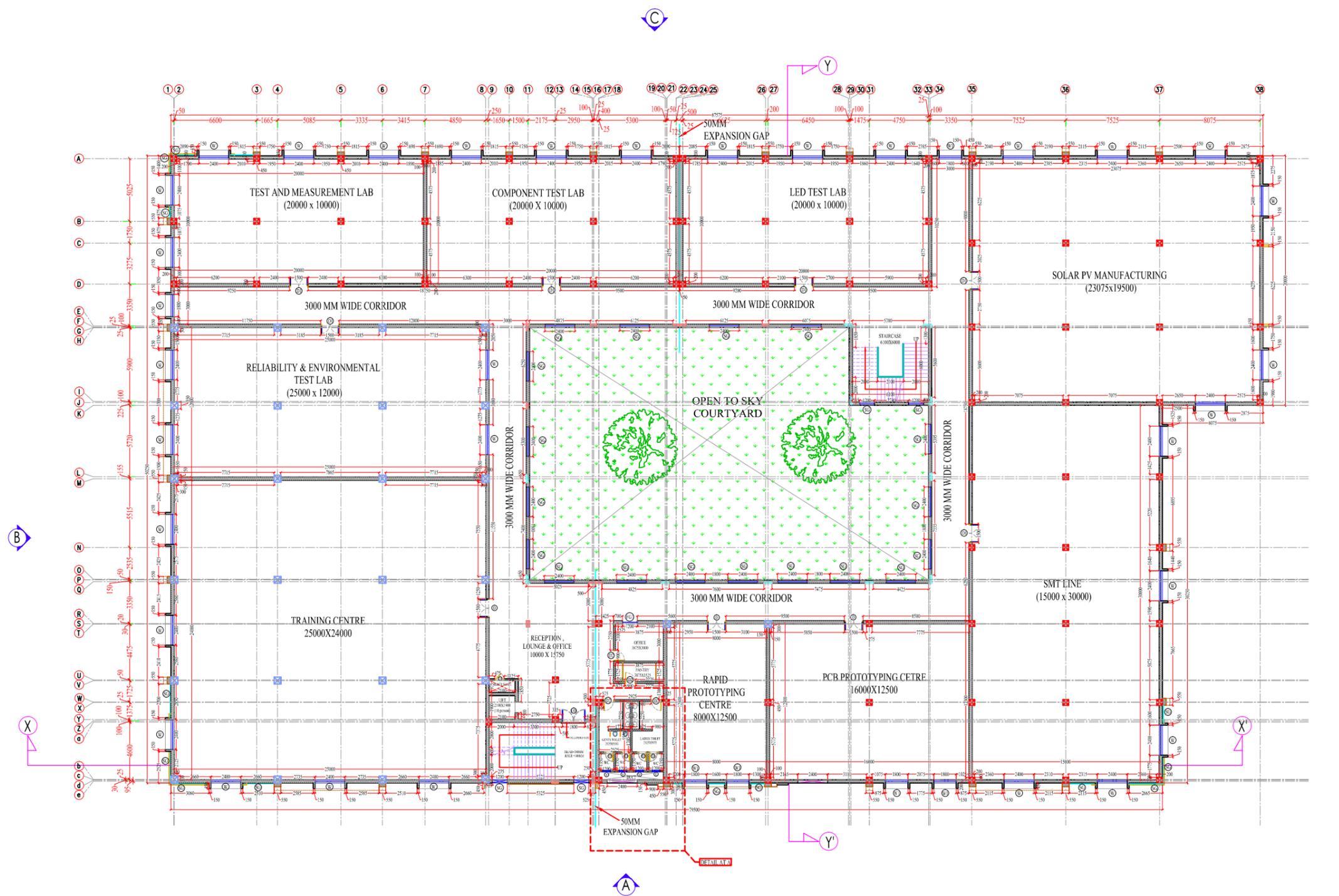
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**DEALT BY:-** Ar. Smrutee Mohapatra  
 COA Reg -CA/2016/75616  
 Ar. Subhramati Sethi  
 COA Reg -CA/2011/51300

**DATE:-** 26-06-2020  
**CHECKED BY:-** Er. P. Mohapatra

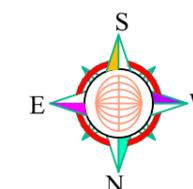


**AREA STATEMENT**

STILT BUILT-UP-AREA=93.241 Sqm  
 FIRST FLOOR BUILT-UP-AREA=3538.817 Sqm  
 SECOND FLOOR BUILT-UP-AREA=1663.780 Sqm  
 TOTAL BUILT-UP-AREA=5295.838 Sqm



FIRST FLOOR PLAN



SIGNATURE OF OWNER  
 AR. SMRUTEE MOHAPATRA  
 SIGNATURE OF ARCHITECT

**PROJECT TITLE:-**

**DRAWING TITLE:-**  
 FIRST FLOOR WORKING PLAN OF COMMON FACILITY CENTER (REVISED)

**CIVIL & ARCHITECTURAL CONSULTANT:-**



**NAME OF OWNER:-**

**SCALE:-** 1:250  
**DEALT BY:-** Ar. Smrutee Mohapatra  
 COA Reg -CA/2016/75616  
 Ar. Subhramati Sethi  
 COA Reg -CA/2011/51300

**DATE:-** 15-10-2019  
**CHECKED BY:-** Er. P. Mohapatra

# FLATTED FACTORY

SHEET NO:-  
BUILD/ARCH/IDCO/EMC-KHUR/FF/01 (Revised)

## KEY PLAN



## AREA STATEMENT

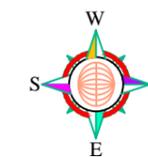
GROUND FLOOR BUILT-UP-AREA=2056.49 Sqm  
FIRST-FLOOR -BUILT-UP-AREA=2043.39 Sqm  
SECOND-FLOOR -BUILT-UP-AREA=2043.39 Sqm  
TOTAL BUILT-UP-AREA = 6143.27 Sqm

B

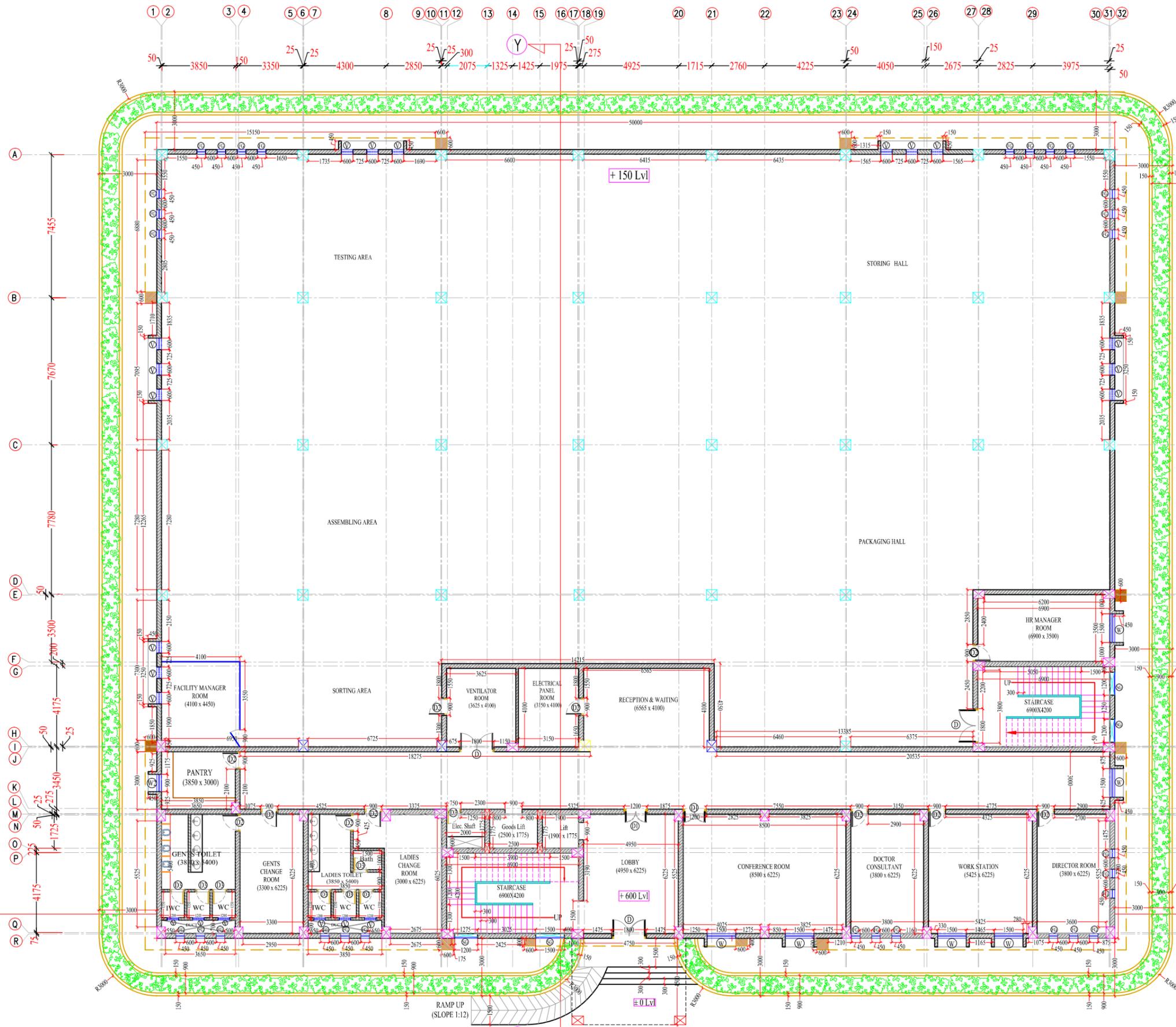
C

D

A



## GROUND FLOOR PLAN



SIGNATURE OF OWNER

AR. SMRUTEE MOHAPATRA  
SIGNATURE OF ARCHITECT

## PROJECT TITLE:-

## DRAWING TITLE:-

GROUND FLOOR WORKING PLAN OF FACTORY COMPLEX (REVISED)

## CIVIL & ARCHITECTURAL CONSULTANT:-

**BUILD SOL**  
ARCHITECTURE ENGINEERING  
1465, BINAYAK COMPLEX  
NAYAPALLI, BHUBANESWAR - 751012

## NAME OF OWNER:-

SCALE:-  
1:150

DEALT BY:-

Ar. Smrutee Mohapatra  
COA Reg -CA/2016/75616  
Ar. Subhramati Sethi  
COA Reg -CA/2011/51300

DATE:-  
26-06-2020

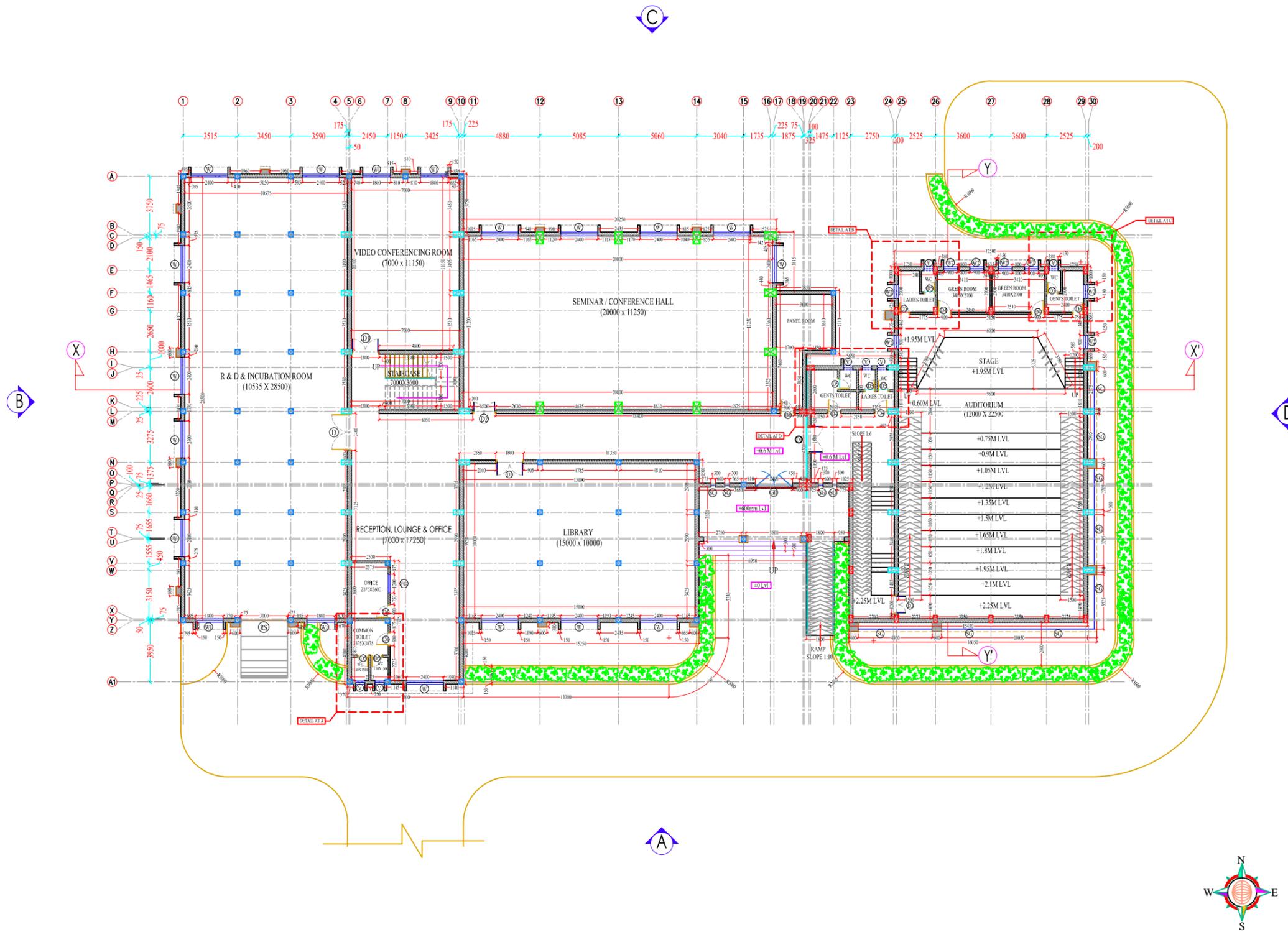
CHECKED BY:-

Er. P. Mohapatra



AREA STATEMENT

GROUND FLOOR BUILT-UP-AREA=1395 Sqm



GROUND FLOOR PLAN

SIGNATURE OF OWNER

AR. SMRUTEE MOHAPATRA  
SIGNATURE OF ARCHITECT

PROJECT TITLE:-

DRAWING TITLE:-

GROUND FLOOR WORKING PLAN OF R & D CENTER

CIVIL & ARCHITECTURAL CONSULTANT:-

**BUILD SOL**  
ARCHITECTURE ENGINEERING  
1465, BINAYAK COMPLEX  
NAYAPALLI, BHUBANESWAR - 751012

NAME OF OWNER:-

SCALE:-  
1:200

DEALT BY:-

Ar. Smrutee Mohapatra  
COA Reg -CA/2016/75616  
Ar. Subhramati Sethi  
COA Reg -CA/2011/51300

DATE:-  
09-07-2018

CHECKED BY:-

Er. P. Mohapatra

# WORKERS HOSTEL

SHEET NO:-  
BUILD/ARCH/IDCO/EMC-KHUR/WH/01(Revised)

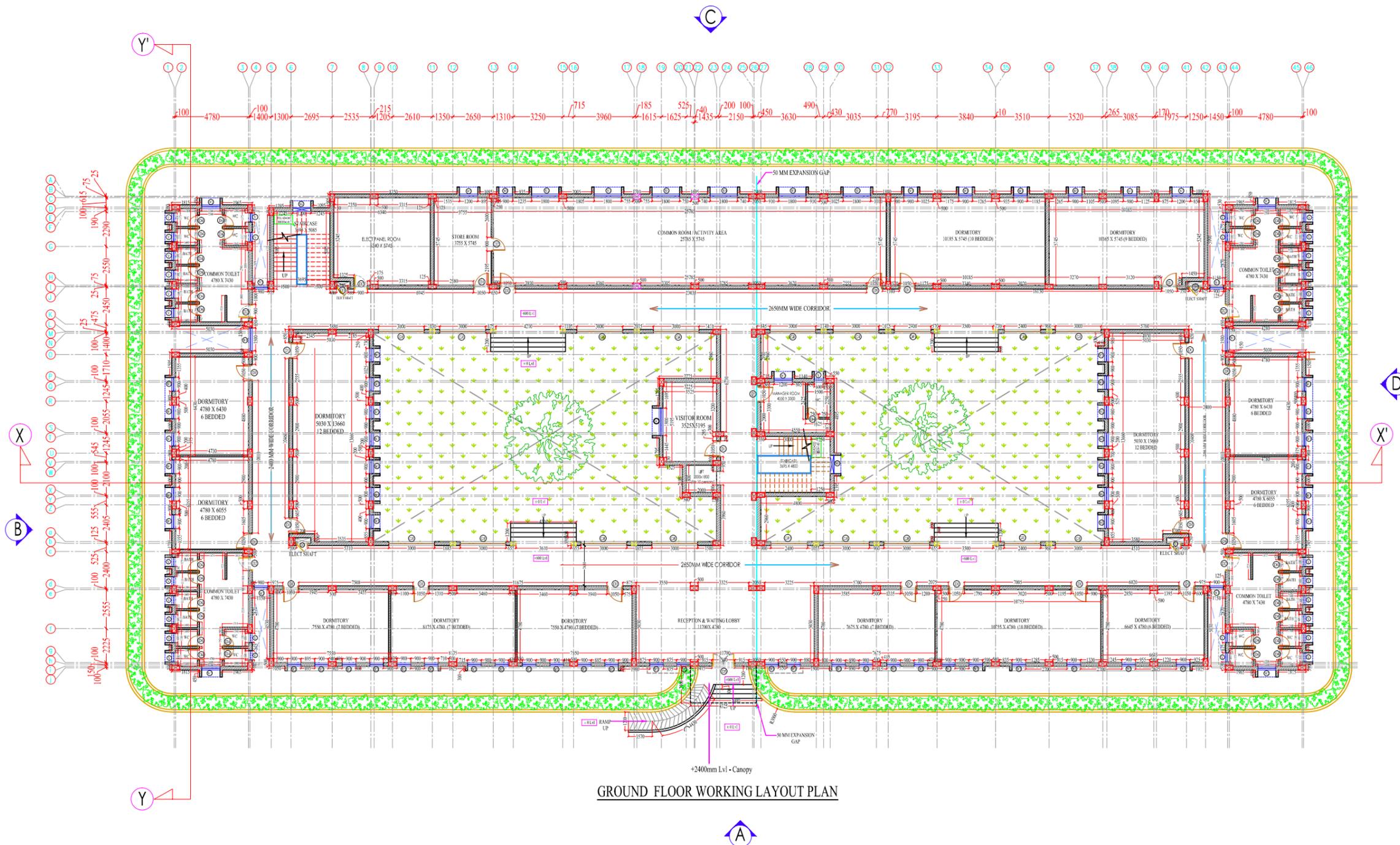
## KEY PLAN



## AREA STATEMENT

GROUND FLOOR BUILT-UP AREA AREA=1700.95 Sqm  
FIRST-FLOOR -BUILT-UP-AREA=1695.67 Sqm  
SECOND-FLOOR -BUILT-UP-AREA=1695.67 Sqm  
TOTAL BUILT-UP- AREA = 5092.29 Sqm

DOOR /WINDOW SCHEDULE		
TYPE	SIZE	DESCRIPTION
D1	1200 X 2400	Flush Door with Collapsible Gate
D	1050 X 2400	FLUSH DOOR
D2	900 X 2400	FLUSH DOOR
D3	750 X 2400	FLUSH DOOR
D4	750 X 2400	PVC DOOR
D5	1500x 2400	FLUSH DOOR
W	1800 X 1350	Fully Glazed Aluminium Framed Sliding Window
W1	1500 X 1350	Fully Glazed Aluminium Framed Sliding Window
W2	1200X1350	Fully Glazed Aluminium Framed Sliding Window
W3	900X1350	Fully Glazed Aluminium Framed Sliding Window
V	600X600	VENTILATOR
FG	450X1500	12mm thick toughened fixed clear glass
SG	—	Structural Glazing
GR	3000X1500	GRILL
GR1	2400X1500	GRILL



GROUND FLOOR WORKING LAYOUT PLAN

SIGNATURE OF OWNER  
AR. SMRUTEE MOHAPATRA  
SIGNATURE OF ARCHITECT

## PROJECT TITLE:-

**DRAWING TITLE:-**  
GROUND FLOOR WORKING PLAN OF  
WORKERS HOSTEL(Revised)

## CIVIL & ARCHITECTURAL CONSULTANT:-

**BUILD SOL**  
ARCHITECTURE ENGINEERING  
1465, BINAYAK COMPLEX  
NAYAPALLI, BHUBANESWAR - 751012

## NAME OF OWNER:-

**SCALE:-**  
1:200

**DEALT BY:-**  
Ar. Smrutee Mohapatra  
COA Reg -CA/2016/75616  
Ar. Subramati Sethi  
COA Reg -CA/2011/51300

**DATE:-**  
13-03-2020

**CHECKED BY:-**  
Er. P. Mohapatra



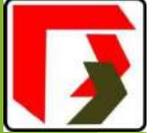
BUILD SOL

Thank

You



# SOME OF OUR GOVERNMENT PROJECTS



## 1. Hindustan Steelworks Construction Limited (HSCL) under Ministry of Steel, Govt. of India

- ❖ **IMMT** (Institute of Minerals and Material Technology)  
– Main Building design renovation
- ❖ **IMMT** - Executive Hostel
- ❖ **EMRS** (Ekalavya Model Residential School) – Rayagada under the initiative of Central Govt. of India.
- ❖ **JNV** (Jawahar Navodaya Vidyalaya) – Nayagarh

## 2. CPWD (Central Public Works Department)

- ❖ Completed design of **Income Tax Apellate Tribunal** building Cuttack branch under Ministry of Law and Justice Government of India.
- ❖ Completed design of **32 SO's Dormitory/ Mess and construction of 11 nos. Classroom for CISF** at KRTC, Mundali, Odisha.
- ❖ Completed design of construction of permanent structures for **NDRF Team** at Balasore & Construction of 60 Men Barrack (G+2) SOs & Gos Mess.
- ❖ Construction of Office building **Annex Block (B+G+3) for GSI**, Bhubaneswar.
- ❖ Construction of Academic cum Administrative block (G+2) and Hostel cum Guest House (G+1) at **Eastern Regional Language Centre**, Bhubaneswar.

## SOME OF OUR GOVERNMENT PROJECTS



- ❖ Construction of 1 storey vertical extension over the existing block -1 (G+1) & block – 3 (G+2) building for IIT Kharagpur, Bhubaneswar Campus.
- ❖ Construction of Language Laboratory Room on top of D.M. School Library and provisions of passage to connect Primary and Secondary Building of D.M. School of RIE Campus at Bhubaneswar.
- ❖ Construction of Training and Placement Cell (G+2) at VSSUT, Burla, Sambalpur, Odisha, SH: Consultancy work for preparation of detail working drawing for construction of Training and Placement Cell (G+2), construction of 3R Type Faculty Quarters of block-1 (S+6) , 300 capacity Ladies Hostel (G+2). Office cum Residence of Honorable Vice Chancellor (G+1).
- ❖ Construction of School Building, Type 'A' Staff Qtrs (09Nos), Ancillary structures & Boundary wall for Kendriya Vidyalaya, Digapahandi (Odisha). SH: Preparation of structural drawings & designs after conducting Soil Investigation on the site etc.
- ❖ Construction of School Building, Type 'A' Staff Qtrs. (09Nos), Ancillary structures & Boundary wall for Kendriya Vidyalaya, Hinjilcut (Odisha).SH: Preparation of structural drawings & designs after conducting Soil Investigation on the site etc.

### **3. Odisha State Housing Board (OSHB) under Govt. of Odisha undertaking**

- ❖ RadhaKrishna Enclave at Bhubaneswar (5 storey apartment)
- ❖ Ambedkar Enclave at Bhubaneswar (4 storey apartment)
- ❖ Residential apartment at Panda park (5 storey apartment)
- ❖ Construction of B+G+3 storied Commercial cum residential building at Basanti Colony, Rourkela
- ❖ Construction of B+S+7 residential apartment at Basanti Colony, Rourkela

# SOME OF OUR GOVERNMENT PROJECTS



## 4. CIPET under Govt. of India

- ❖ Construction of B+G+5 Girl's Hostel at CIPET:CSTS , Mancheswar, BBSR.

## 5. Odisha State Police Housing and Welfare Corporation Limited (OPHWC) Govt. of Odisha Undertaking

- ❖ NRHM - National Rural Health Mission for design of all buildings, structures and hospital throughout the state of Odisha.

## 6. IDCO (Odisha Industrial Infrastructure Development Corporation)

- ❖ Electronic Manufacturing Cluster Park at Infovalley, Khurdha.

## 7. Water Resource Department , Govt. of Odisha Secha Sedan Extension Building , Bhubaneswar

## 8. PMC for Medical College at Koraput and Bolangir under Works Department , Govt. of Odisha.

## 9. OCPL (Odisha Coal and Power Limited ) Govt. of Odisha undertaking

- ❖ Rehabilitation Township at Hemagir , Jharsuguda.

## 10. R&B Department Govt. Of Odisha

- ❖ Construction of 400 seated Auditorium, Classroom , Science block and Canteen for Womens' College Sundergarh.
- ❖ Construction of 100 bedded hospital at CHC Rajgangpur.
- ❖ Consultancy service for design of D, E & F type quarter at DHH Sundergarh

## SOME OF OUR GOVERNMENT PROJECTS



### 11. R&B Department Govt. Of Odisha (OAV)

- ❖ 200 Bedded Girls Hostel, Bhoipali
- ❖ 200 Bedded Boys Hostel, Simdega
- ❖ Core Building, Bhoipali
- ❖ Core Building, Talsara
- ❖ Core Building, Ujjalpur
- ❖ 200 Bedded Girls Hostel, Chhatenpali
- ❖ 200 Bedded Boys Hostel, Ujjalpur
- ❖ 200 bedded Boys Hostel, Chhatenipali
- ❖ 200 Bedded Girls Hostel, Bargaon.

# SOME OF OUR PRIVATE PROJECTS



## 1. INDUSTRIAL PROJECTS

- ❖ **INDO NISSIN** – Architectural Planning, Drawing, Structural Design, Engineering, for Proposed Warehouse at vacant plot located in Khordha Food Park, Khordha, Odisha.
- ❖ **ORICON ENTERPRISES LIMITED-** Architectural Planning, Drawing, Structural Design, Engineering, for Proposed Manufacturing unit at vacant plot located in Industrial Estate ,Khordha, Odisha
- ❖ **BRITANNIA** – Consultancy services for obtaining Bhubaneswar development Authority (BDA) approval for proposed project in the state of Odisha.
- ❖ **P & A BOTTLERS PVT. LTD.** - Consultancy Services for the work Green Field EPC Brewery Factory for Architectural Planning, Drawing, Structural Design, Engineering, Execution Support.
- ❖ **KALS BREWERIES PVT. LTD.-** Renovation of Malt Storage, Construction of SILO Foundation.
- ❖ **CENTUARY FIBRE PLATES PVT LTD** – Approval of drawings for Construction of Plant Building from BDA.
- ❖ **MILK MANTRA** – Project Management Consultancy for Architectural & Civil Planning & Drawings, Structural Designs, Engineering & Execution support for civil works required for Expansion of Diary Plant.
- ❖ **UNITED BREWERIES LIMITED-** Consultancy work of Plant at UB, Khurda. & Strom water drain Ac Odisha Unit

# SOME OF OUR PRIVATE PROJECTS



- ❖ **HINDUSTAN COCA COLA BEVERAGES PVT LTD** – Preparation of Factory Expansion & Appro. Preparation of drawings for IDCO and F & B.
- ❖ **DENZONG BREWERIES PVT LTD-** Carrying out structural design works and analysis of structures for safety, economy and standards. Making analysis of structures for wind load and earthquake load and transferring the design issuing details structural drawings for civil foundation etc.

## 2. HOUSING PROJECTS

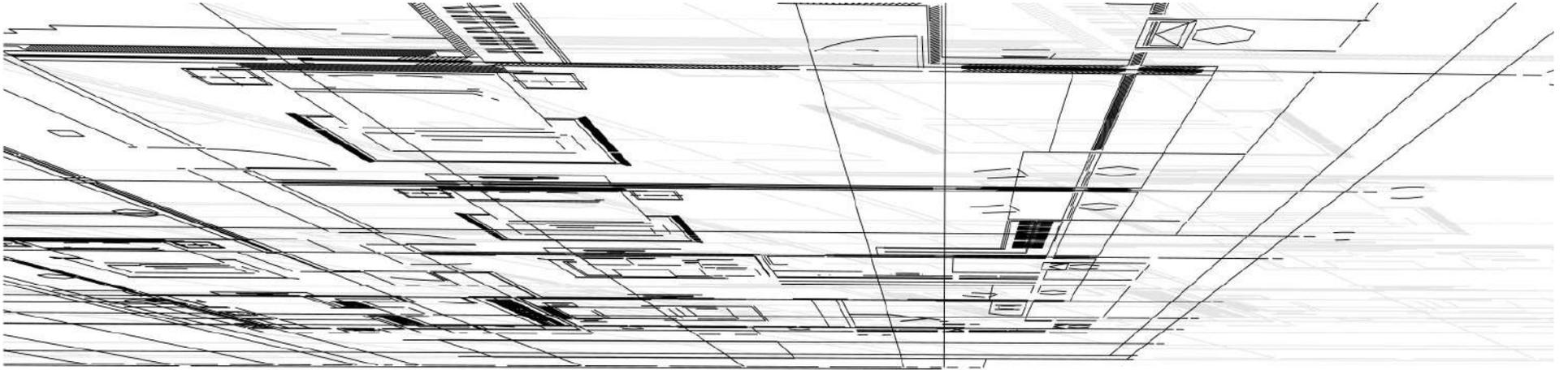
- ❖ **ESSEN CONSTRUCTION-**
  - ✓ Ratnakar Enclave
  - ✓ Bullet Showroom
  - ✓ MM Baliana
  - ✓ City Centre, Laxmisagar
  - ✓ Kailash Heights
  - ✓ Raj Manohar A+B Block
  - ✓ City Centre Additional work for Bank Strong Room
- ❖ **OMM ESTCON PVT.LTD.-**
  - ✓ Hemalata Paradise
  - ✓ Hemalata Mansion

## SOME OF OUR PRIVATE PROJECTS

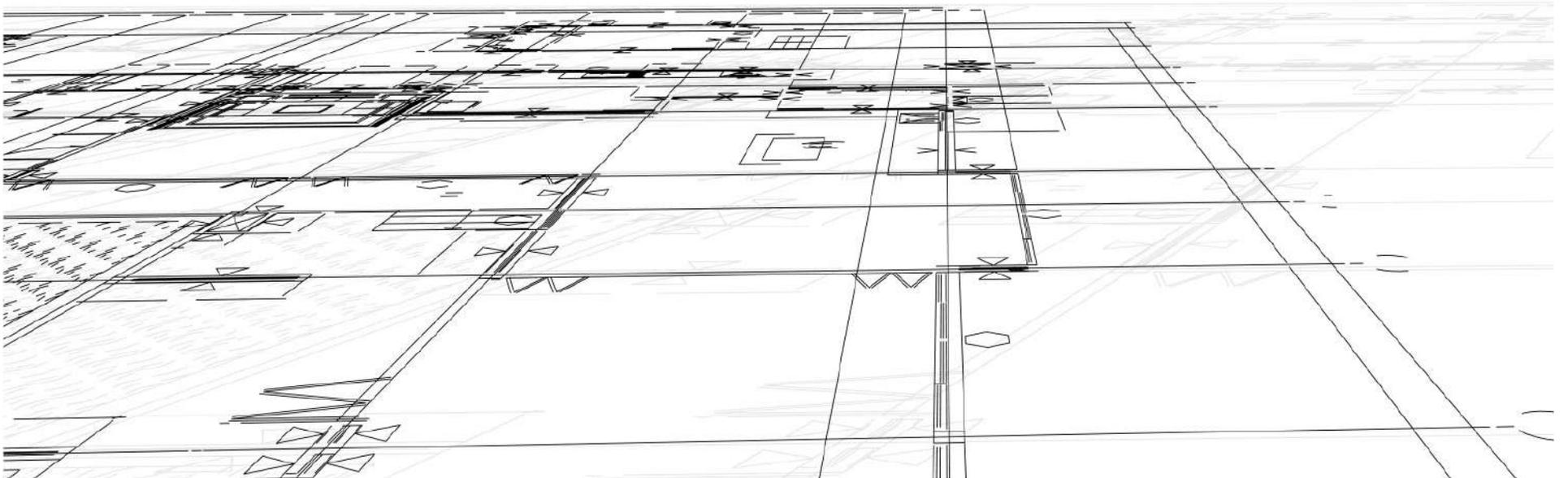


### ❖ **KHUSHI REALCON PVT LTD-**

- ✓ Carrying out feasibility study and detail project report including the structural design and Drawing for our Residential Apartment Project “**Khushi Basera**” consisting of mostly B+S+6 Building blocks, at Near Hanspal, Bhubaneswar, Odisha.
- ✓ Carrying out feasibility study and detail project report including the structural design and Drawing for our Residential Apartment Project “**Khushi Kalinga House**” consisting of mostly 2B+5 Building blocks, at Near Palasuni, Bhubaneswar, Odisha.
- ✓ Structural analysis and Auditing of existing residential apartment project “**Khushi Prestige**” consisting of mostly B+G+5 building block in IRC Village, Nayapalli, Bhubaneswar.
- ✓ Carrying out feasibility study and detail project report including the structural design and Drawing for Residential Apartment Project “**Khushi Harmony**” consisting of mostly B+S+5 Building blocks, at Palasuni, Saptasati Bihar, Bhubaneswar, Odisha.
- ✓ Carrying out feasibility study and detail project report including the structural design and Drawing for Residential Apartment Project “**Khushi Shanti Tower**” consisting of mostly B+B+G+3 Building blocks, at Old Station Bazar, Bhubaneswar, Odisha.



# ARCHITECTURAL PROJECT VIEWS

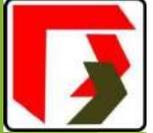


# ARCHITECTURAL & OTHER ENGINEERING PROJECTS



3D VIEWS OF EMC PARK, INFO VALLEY KHURDHABY DCO

# ARCHITECTURAL & OTHER ENGINEERING PROJECTS



ADMINISTRATIVE BLOCK



FLATTED FACTORY



COMMON FACILITY CENTRE



WORKERS HOSTEL

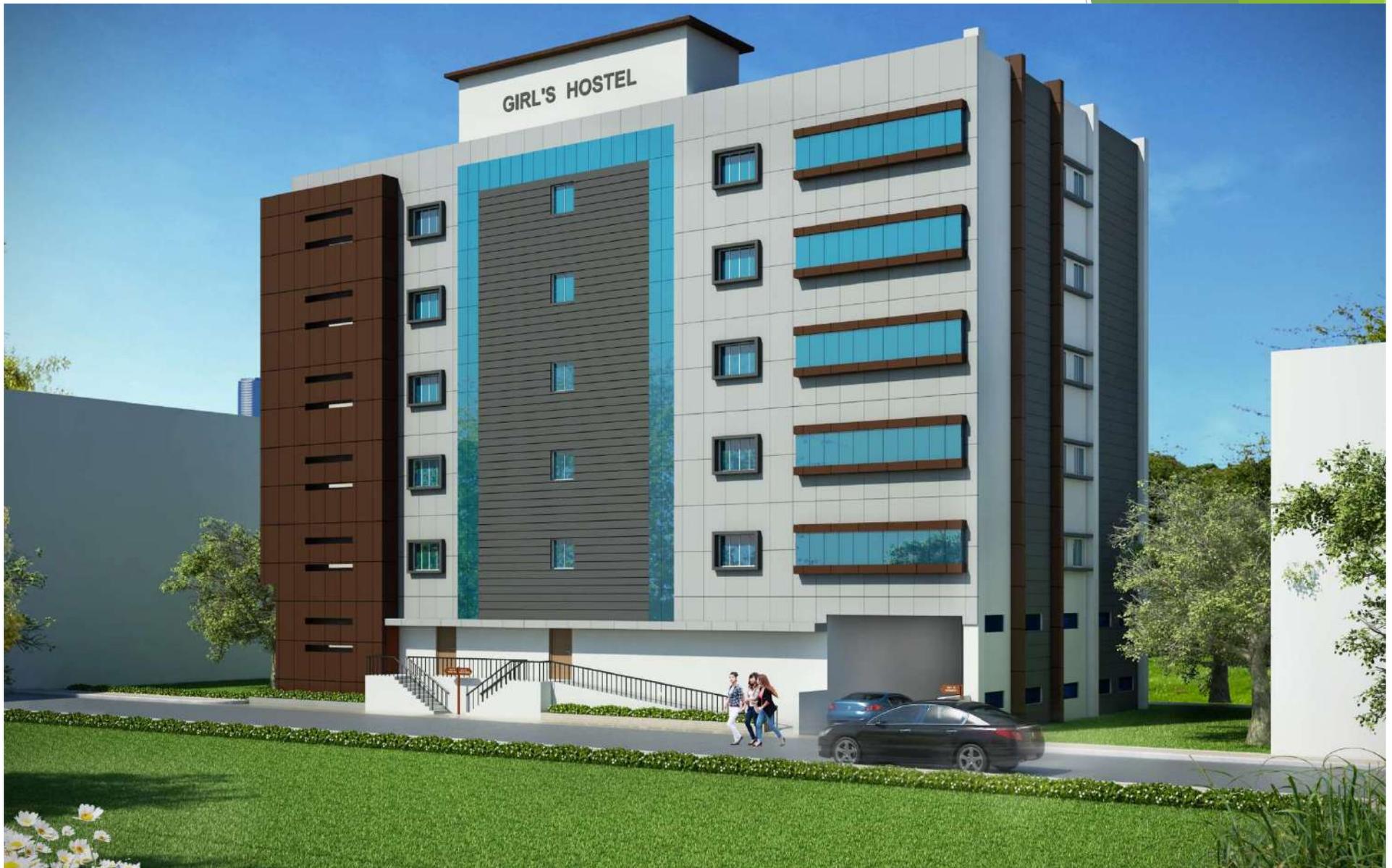


R & D CENTRE



3D VIEWS OF EMC PARK, INFO VALLEY KHURDHABY IDCO

# ARCHITECTURAL & OTHER ENGINEERING PROJECTS



B+G+5 GIRLS HOSTEL AT CPET: CSTS MANCHESWAR

# ARCHITECTURAL & OTHER ENGINEERING PROJECTS



**NCOM TAX APPELATE TRIBUNAL BUILDING, CUTTACK**

# ARCHITECTURAL & OTHER ENGINEERING PROJECTS



3D PERSPECTIVE VIEW



AUDITORIUM WOMENS' COLLEGE, SUNDERGARH

# ARCHITECTURAL & OTHER ENGINEERING PROJECTS



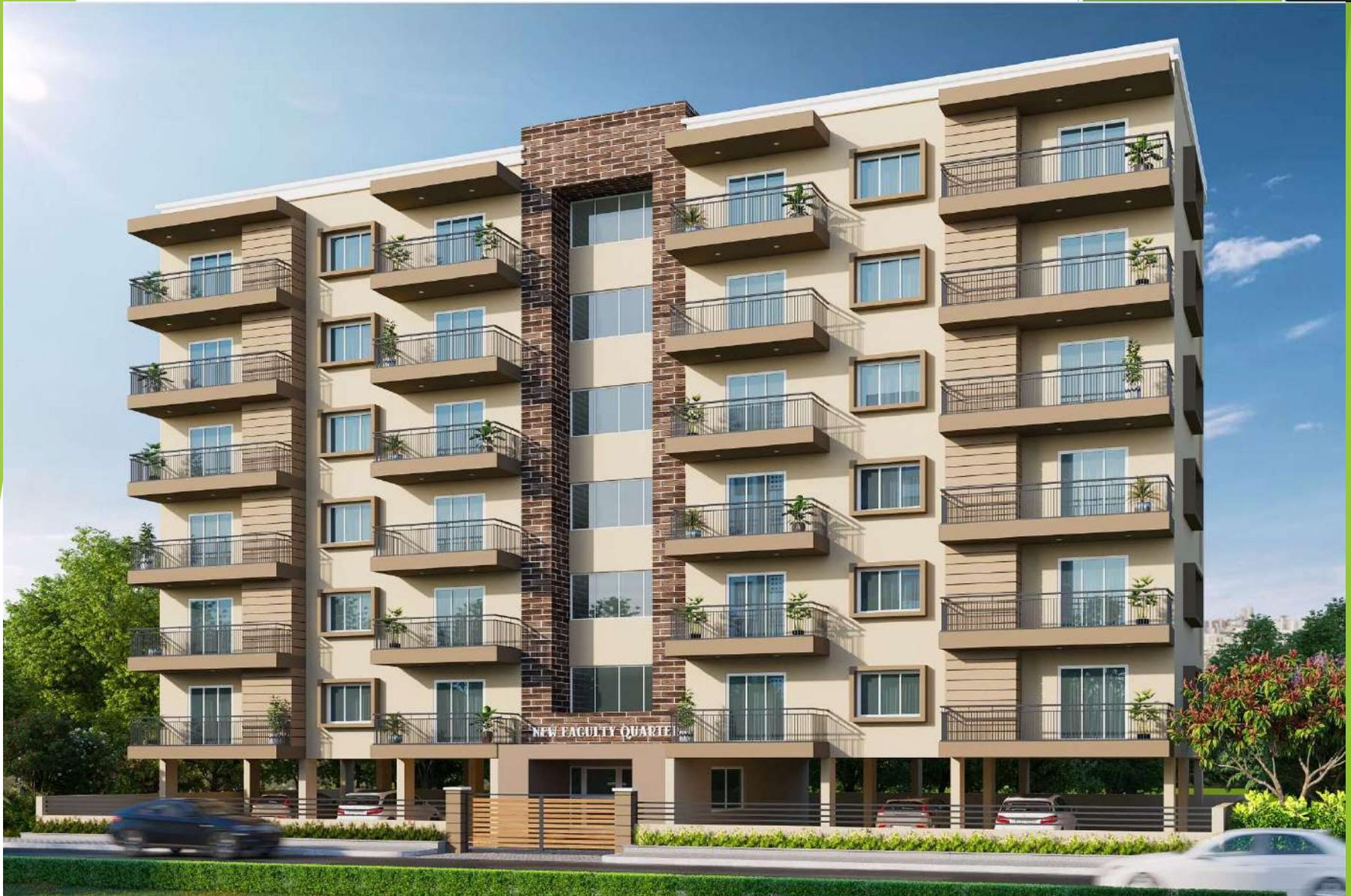
CLASSROOM BLOCK WOMEN'S COLLEGE, SUNDERGARH

# ARCHITECTURAL & OTHER ENGINEERING PROJECTS



SCIENCE BLOCK WOMEN'S COLLEGE, SUNDERGARH

# ARCHITECTURAL & OTHER ENGINEERING PROJECTS



**NEW FACULTY QUARTER AT VSSUT, BURLA BY CPWD**

# ARCHITECTURAL & OTHER ENGINEERING PROJECTS



**VC RESIDENCE AT VSSUT, BURLA BY CPWD**

# ARCHITECTURAL & OTHER ENGINEERING PROJECTS



**BIDWAAN COLLEGE JAJPUR**

# ARCHITECTURAL & OTHER ENGINEERING PROJECTS



**SUBHAM HOUSING COMPLEX**

# ARCHITECTURAL & OTHER ENGINEERING PROJECTS



**COMMERCIAL COMPLEX, BALESWAR**

# ARCHITECTURAL & OTHER ENGINEERING PROJECTS



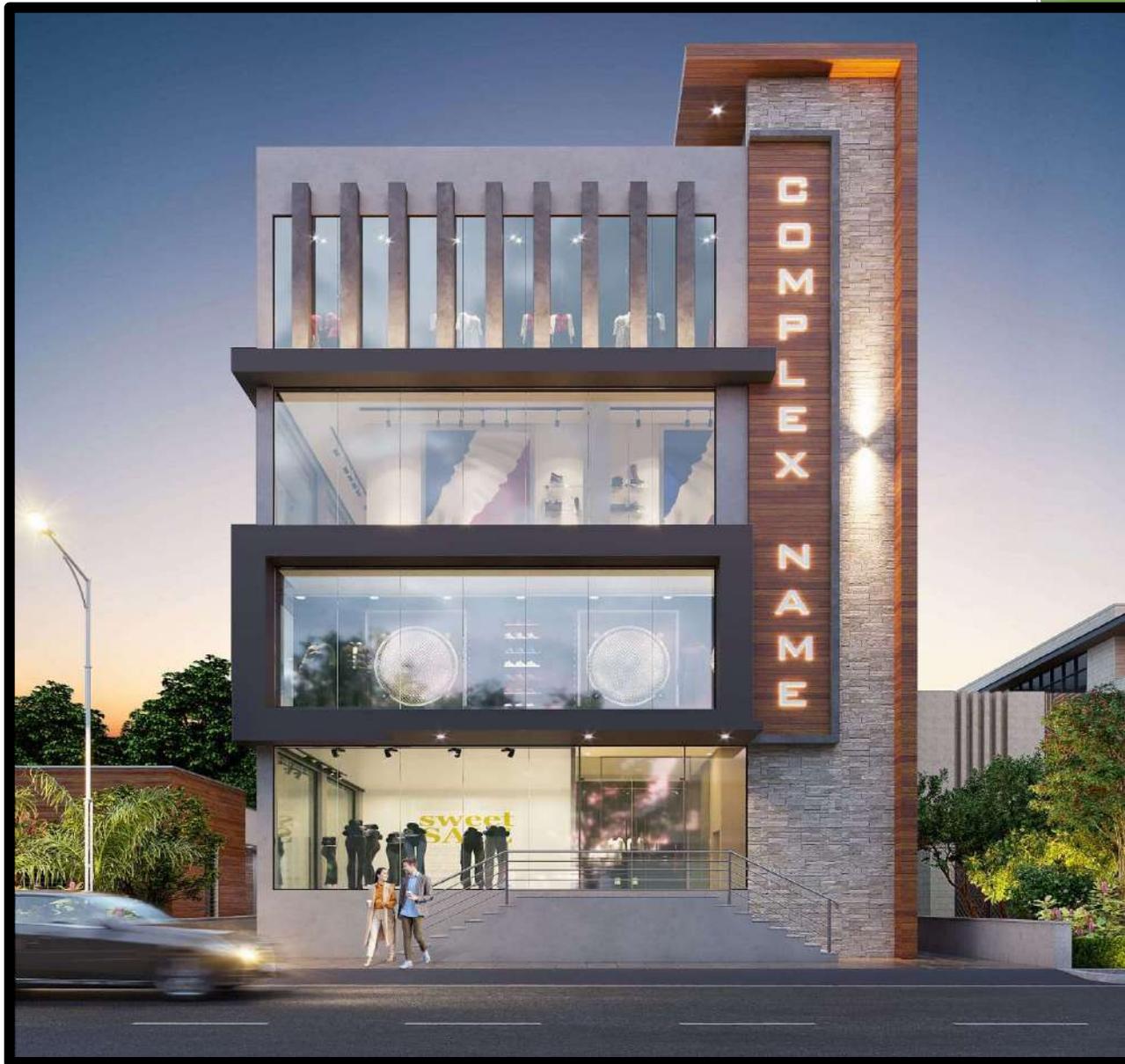
**ASHIANA HOMES BARIPADA**

# ARCHITECTURAL & OTHER ENGINEERING PROJECTS



**COMMERCIAL BUILDING BERHAMPUR**

# ARCHITECTURAL & OTHER ENGINEERING PROJECTS



**COMMERCIAL BUILDING AT RAGHUNATHPUR**

# ARCHITECTURAL & OTHER ENGINEERING PROJECTS



ARIAL VIEW



**HEVALATAMANSION, OMM CONTECH (P) LTD.**

# ARCHITECTURAL & OTHER ENGINEERING PROJECTS



**HEVALATAMANSION, OMM CONTECH (P) LTD.**



**RESIDENCE OF MR. R.K. SARANGI**

# ARCHITECTURAL & OTHER ENGINEERING PROJECTS



**MLKMANTRADAIARY(P)LTD. , ODISHA**

# ARCHITECTURAL & OTHER ENGINEERING PROJECTS



**HINDUSTAN COCACOLABEVERAGE (P) LTD.**

# PROJECT MANAGEMENT CONSULTANCY PROJECTS



PMCOF GOVT. MEDICAL COLLEGE BOLANGIR

# PROJECT MANAGEMENT CONSULTANCY PROJECTS



PMCOF GOVT. MEDICAL COLLEGE KORAPUT

# PROJECT MANAGEMENT CONSULTANCY PROJECTS



PMCOFHEMGRITOWNSHIP(OCPL)

# PROJECT MANAGEMENT CONSULTANCY PROJECTS

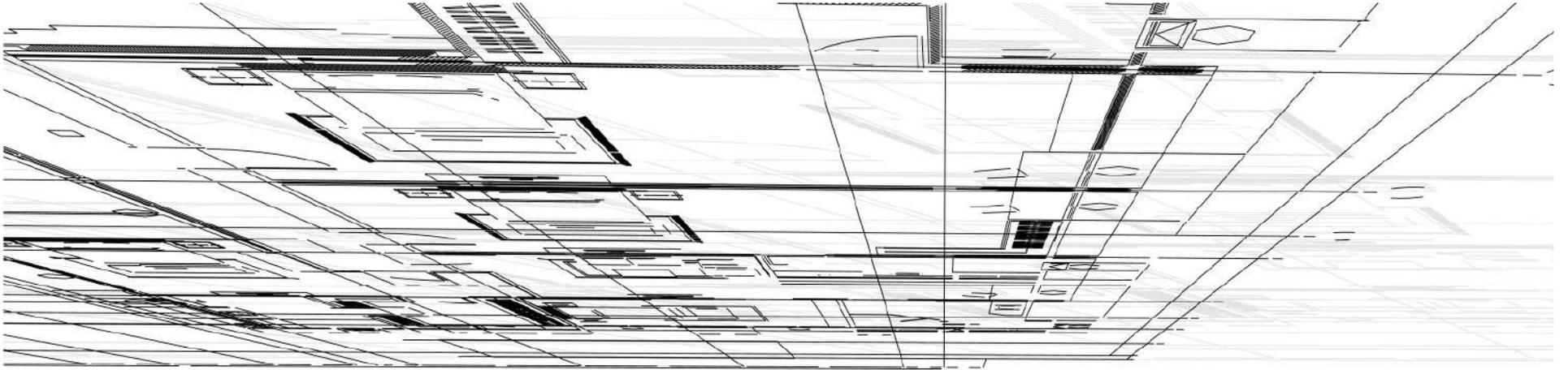


PMCOF INDONISSIN FOODS (P) LTD.

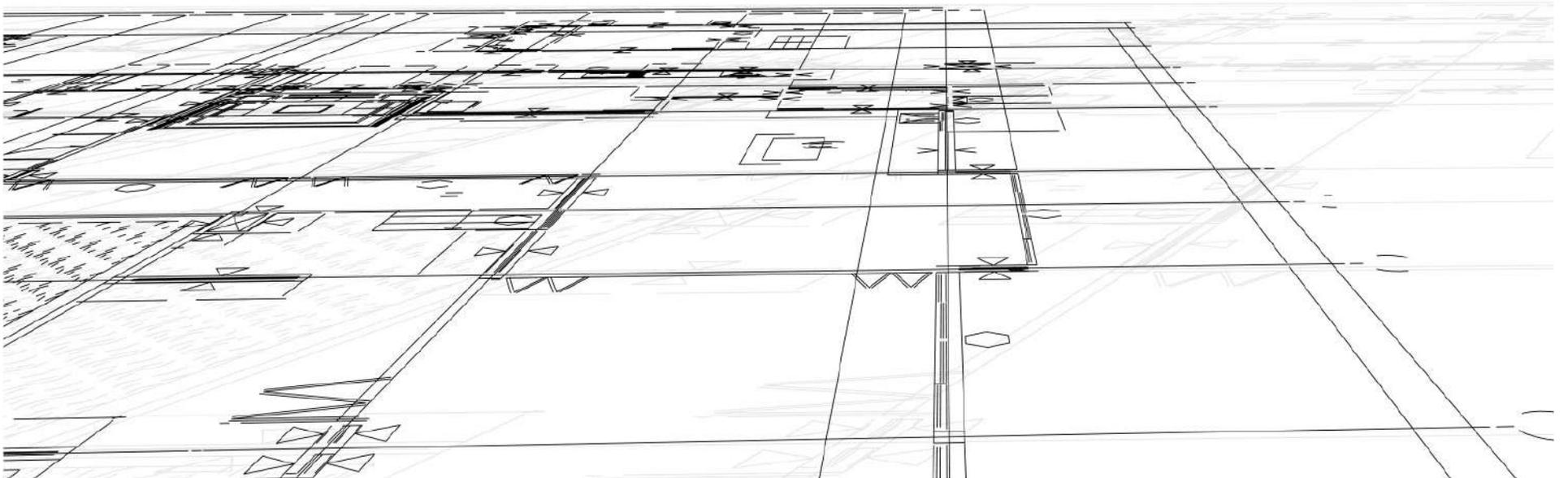
# PROJECT MANAGEMENT CONSULTANCY PROJECTS



PMCFORROADPROJECTBYOCPL



# INTERIOR PROJECT VIEWS



# INTERIOR PROJECTS



INTERIOR RENNOVATION OF MR. P. KDAS

# INTERIOR PROJECTS



INTERIOR RENNOVATION OF MR. P. KDAS

# INTERIOR PROJECTS



INTERIOR DESIGN OF MR. RANJAN MOHAPATRA

# INTERIOR PROJECTS



INTERIOR DESIGN OF MR. RANJAN MOHAPATRA

# INTERIOR PROJECTS



OMMSUPERMART TLESHOWROOM AT RAHAMA

# INTERIOR PROJECTS



OMMSUPERMART SAREESHOWROOMATRAHAMA

# INTERIOR PROJECTS



SHORTLISTED FOR INTERIOR RENNOVATION OF ODISHA  
LEGISLATIVE ASSEMBLY

# SCOPE OF WORK FOR PMC

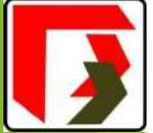


1. A Periodic check is to be Carried out by site engineer to ensure quality in the construction.
2. The engineers to follow the check lists during their routine inspection for quality control measures.
3. Communicating Project Progress, Projects Issues.
4. Project Includes all work required and Quality is Consistent with the expectations. (Scope)
5. Timely completion of the Project. (Schedule)
6. The project is completed with in the approved budget
7. Review of Approved Quality Monitoring Plan.
8. Review Site conditions ,preparations and statutory clearances

## TECHNICAL APPROACH -



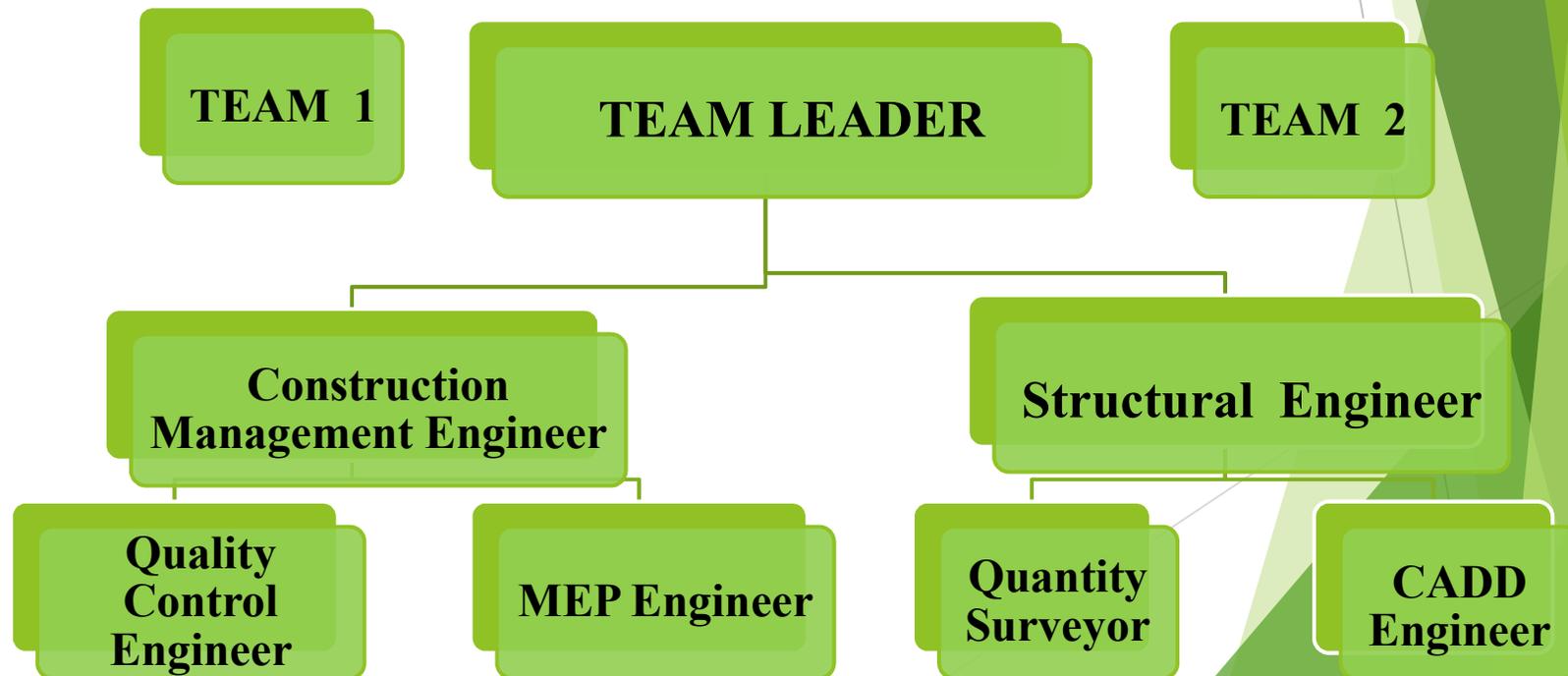
# TECHNICAL PROCEDURE FOR PMC WORK



BUILD SOL inspection processes ensure that all construction activities comply with the documented standards and specifications. We:

1. Develop an inspection and test plan to identify required inspections and tests at key milestones during the construction, closeout, and warranty.
2. Conduct a series of inspections for each construction task; before work begins, at first article completion, while work is in process, and at completion.
3. Identify required checkpoints for critical quality and safety requirements for each construction task inspection.

## MANNING SCHEDULE-





## THE STRUCTURAL DESIGN ASPECTS OF THE BUILDING INCLUDES:-

- **POST TENSIONED (PT) FLAT PLATE SLAB** IN ALL FLOOR; A STATE OF ART TECHNOLOGY BEING FOLLOWED GLOBALLY IN MAJOR COMMERCE AND OFFICE COMPLEX.
- THIS WILL RESULT IN LESS COLUMNS AND MORE COLUMN FREE SERVICE AREAS AND BEAMLESS STRUCTURE.
- THIS WILL HELP AT ANY POINT OF TIME TO MODIFY PLANNING OF THE OFFICE THROUGHOUT THE LIFE PERIOD OF THE BUILDING.

# UNIQUE FEATURES & TECHNIQUES INCORPORATED



**OPEN LEISURE SPACE AT TERRACE**



**INSTALLATION OF SOLAR PANELS & SOLAR WATER HEATER ON TERRACE**

# UNIQUE FEATURES



## INTELLEAGENT GREEN BUILDING APPROACH

- INTELLIGENT ENERGY CONTROL SYSTEM
- ROOF TOP OPEN LEISURE OR READING SPACE
- INTEGRATION OF NEW COMPLEX WITH OLD BUILDING
- LIFT WITH V3F
- UVR GLASS WINDOW PANELS
- ENERGY EFFICIENT SOLAR PANELS
- POWER BACK- UP
- WI-FI NETWORKING SYSTEM
- SEISMIC RESISTANT DESIGN
- INTELLIGENT FIRE FIGHTING SYSTEM
- RAIN HARVESTING SYSTEM
- INBUILT FUTURE EXPANSION DESIGN

# INTEGRATED FIRE FIGHTING SYSTEM



- FIRE HYDRANT, WET RISER AND HOSE REEL SYSTEM.
- AUTOMATIC SPRINKLER SYSTEM.
- FIRE DETECTION SYSTEM WITH SMOKE AND HEAT DETECTOR.
- AUTOMATIC FIRE ALARM SYSTEM WITH POWER BACK UP.
- PORTABLE FIRE EXTINGUISHER.
- PROVISION FOR UNDER GROUND TANK.
- PROVISION FOR OVERHEAD TANK.
- PROVISION FOR ELECTRICALLY OPERATED MAIN FIRE PUMPS
- PROVISION FOR DIESEL OPERATED FIRE PUMP
- AUTOMATIC ELECTRIC FIRE ALARM SYSTEM.
- TERRACE TANK CAPACITY AS PER NORMS

# RAINWATER HARVESTING SYSTEM



- ❖ **CGWB GUIDELINES.**
- ❖ **RAINWATER HARVESTING SCHEME**
- ❖ **INTEGRATED RAIN WATER COLLECTION FROM ROOF TO RAINWATER HARVESTING PITS.**
- ❖ **PROVISION FOR DESILTING PITS AND OIL & GREASE TRAP.**
- ❖ **PROVISION OF RWH TANKS AS PER PLANNING GUIDELINES.  
( 6 CUM PIT FOR EVERY 100 SQ.MT ROOF AREA.)**

# ENERGY CONSERVATION MEASURES



- **ROOF TOP SOLAR POWER GENERATION SYSTEM**
- **LED IN PLACE OF INCANDESCENT LAMPS**
- **USE OF SOLAR WATER HEATER FOR SUPPORT SERVICES IN HOSTEL AND CANTEEN.**
- **POWER OPTIMIZATION BY DG SET AUTOMATION.**
- **VARIABLE FREQUENCY DRIVE (V3F) FOR LIFT.**
- **WATER PUMPING SUPPLY SYSTEM WITH VARIABLE FREQUENCY DRIVE.**



- **CCTV MONITORING AND SECURITY**
- **BIOMETRIC ACCESS CONTROL**
- **RFID VEHICLE ACCESS CONTROL**
- **BOLLARD AND BOOM BARRIER ACCESS CONTROL**





**THANK YOU**