

Annexure-I
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F. No. - SIA/8(b)/2458/2023
STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY,
BIHAR

2nd Floor, Beltron Bhawn
Shastri Nagar
Patna - 800 023
E-mail:- seiaabihar@gmail.com
seiaa.ms.br@gmail.com

Dated:- 24/08/2023

To,

Shri Ajay Singh,
Managing Director,
M/s Ashirwad Engicon Private Limited,
A9, Saroj Residency Near Vivekanand Park,
opposite Sana Apartment, Patliputra Colony,
Patna, Bihar, Pin code:- 800 013,
Email:- ashirwadepl@gmail.com,
Telephone No. – 0612 – 2572202.

Sub: Proposed Township and Area Development Project
“Ashirwad Sundarlal City” at Village:- Mittanchak, Mauza:-
Bhelwara, Thana:- Gopalpur, District:- Patna, State:-Bihar;
by M/s Ashirwad Engicon Private Limited [Total Plot Area:-
47162.19 m² , Total Built-up Area:- 198428.03 m²] – Terms of
Reference regarding.

Ref:

1. Online Application – SIA/BR/INFRA2/438317/2023.
2. Scrutiny fee submission dated 28-07-2023.
3. SEAC meeting held on 05-08-2023.
4. SEIAA meeting held on 17-08-2023.

Sir,


Member Secretary
SEIAA, Bihar

This has reference to the online proposal submitted in the State Level Environment Impact Assessment Authority to prescribe the Terms of Reference (ToR) for undertaking detailed EIA study for the purpose of obtaining Environmental Clearance in accordance with the provisions of the EIA Notification, 2006. For this purpose, you had submitted online information in the prescribed format (Form - I) along with a Form - I (A). The details of the proposal as described in the application are as follows:

- | | |
|---|---|
| 1. <u>Online Proposal No.</u> | SIA/BR/INFRA2/438317/2023 |
| 2. <u>File No.:</u> | SIA/8(b)/2458/2023 |
| 3. <u>Name of the Proposal</u> | Proposed Township and Area Development Project "Ashirwad Sundarlal City" at Village:- Mittanchak, Mauza:- Bhelwara, Thana:- Gopalpur, District:- Patna, State:-Bihar; by M/s Ashirwad Engicon Private Limited |
| 4. <u>Category of the Proposal:</u> | Township and Area Development Project. 8(b) |
| 5. <u>Project/Activity applied for</u> | Township and Area Development Project. |

In this regard, under the provisions of the EIA Notification, 2006 as amended, the ToR for the purpose of preparing Environment Impact Assessment report and Environment Management Plan for obtaining prior Environmental Clearance is prescribed with Public Consultation as follows:-

A. STANDARD TERMS OF REFERENCE

1. Examine details of land use as per Master Plan and land use around 10 km radius of the project site. Analysis should be made based on latest satellite imagery for land use with raw images. Check on flood plain of any river.
2. Submit details of environmentally sensitive places, land acquisition status, rehabilitation of communities/villages and present status of such activities.
3. Examine baseline environmental quality along with projected incremental load due to the project.
4. Environmental data to be collected in non-monsoon one season in relation to the project development will be (a) land, (b) groundwater, (c) surface water, (d) air, (e) bio-diversity, (f) noise and vibrations, (g) socio economic and health.

5. Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area.
6. Submit the details of the tree to be felled for the project.
7. Submit the present land use and permission required for any conversion such as forest, agriculture, etc.
8. Submit Roles and responsibility of the developer etc for compliance of environmental regulations under the provisions of EP Act.
9. Ground water classification as per the Central Ground Water Authority.
10. Examine the details of Source of water, water requirement, use of treated waste water and prep area water balance chart.
11. Rain water harvesting proposals should be made with due safeguards for ground water quality. Maximize recycling of water and utilization of rain water. Examine details.
12. Examine soil characteristics and depth of ground water table for rainwater harvesting.
13. Examine details of solid waste generation treatment and its disposal.
14. Examine and submit details of use of solar energy and alternative source of energy to reduce the fossil energy consumption.
15. DG sets are likely to be used during construction and operational phase of the project. Emissions from DG sets must be taken into consideration while estimating the impacts on air environment. Examine and submit details.
16. Examine road/rail connectivity to the project site and impact on the traffic due to the proposed project. Present and future traffic and transport facilities for the region should be analysed with measures for preventing traffic congestion and providing faster trouble free system to reach different destinations in the city.
17. A detailed traffic and transportation study should be made for existing and projected passenger and cargo traffic.
18. Examine the details of transport of materials for construction which should include source and availability.
19. Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.

20. Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster.
21. Prepare a plan for creation of designated greenbelt area (green island) work of demolition of old structures should start from the opposite end of the green island so that wild fauna sheltered therein may take refuge in the island.
22. Prepare a plan regarding Storm Water Management, Sewage Treatment Plant (STP), Effluent Treatment Plant (for the effluents generated from the laboratories) Groundwater recharge points, Rainwater Harvesting, Biomedical Waste Management Hazardous Waste Management, Biogas, Manure, Solar energy, etc.
23. Prepare a plan regarding existing flora and fauna in the campus for its conservation.
24. Submit a copy of the contour map with slopes, drainage pattern of the site, and the surrounding area together with obstruction of the same by project, if any.
25. Submit species wise details GBH (Girth at Breast Height), of the trees to be felled for the project.
26. No tree should be felled. Instead all the trees should be translocated at a suitable site within the Project Premises."Effort should be made to conserve the trees by modifying the layout/design, particularly the older trees which often are habitats of many activity nesting fauna. If inevitable, felling should be planned with permission and under the guidance of Forest Department."
27. Examine separately the details for construction and operation phase both for Environment Management Plan and Environmental Monitoring plan with cost.

B. Special Condition

1. The baseline data must be collected after the 2023 monsoon.

Sd/-
(Sudhir Kumar)
Member-Secretary,
SEIAA, Bihar

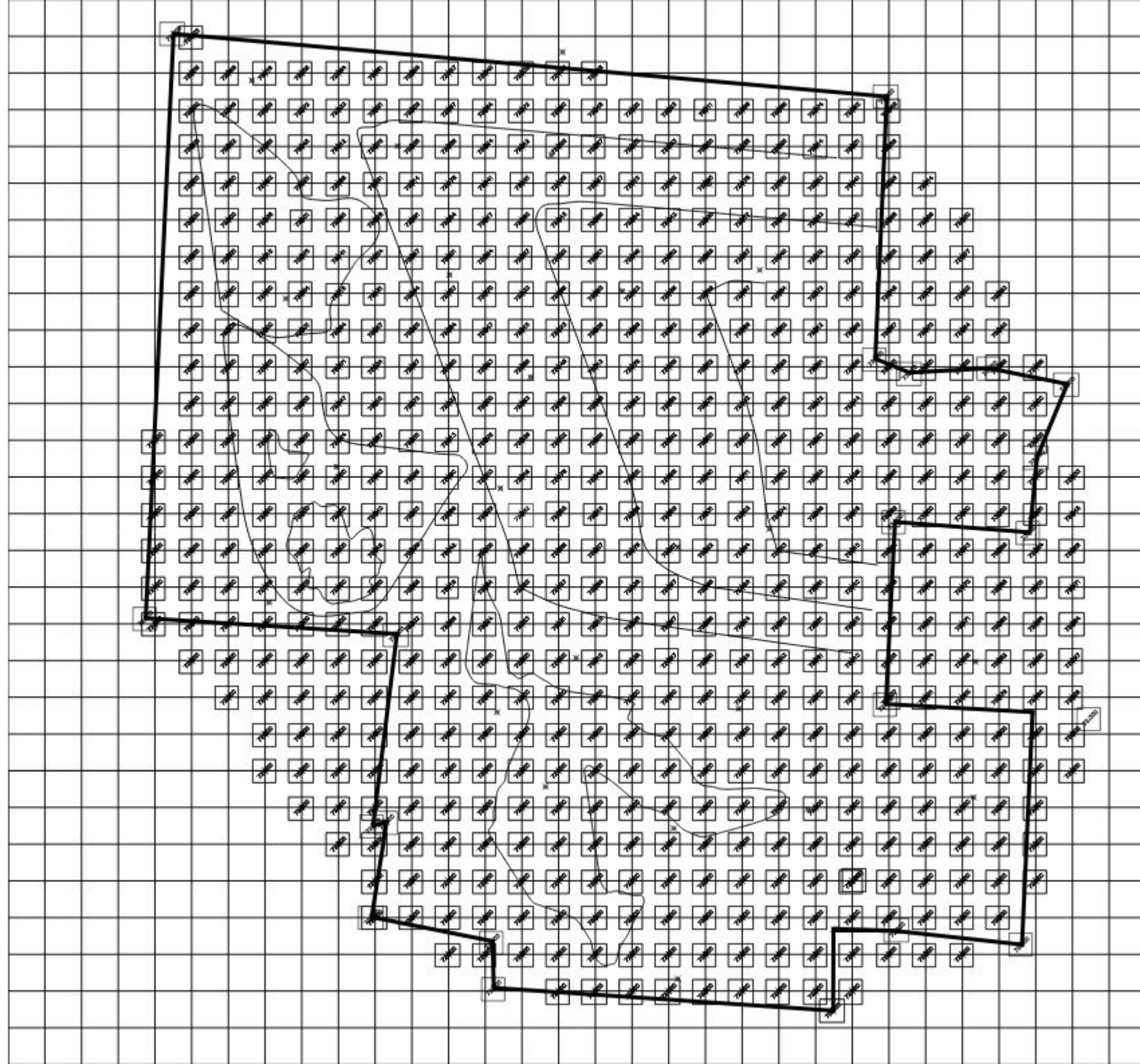
Copy, through email, for information and necessary action to :-

1. Member Secretary, Bihar State Pollution Control Board, Patna.
2. Guard File.


(Sudhir Kumar)
Member-Secretary
SEIAA, Bihar
Member Secretary
SEIAA, Bihar

Annexure-II

**The project site indicating levels &
contour**



Annexure-III
Land Summary

SUNDAR LAL CITY, LAND DETAILS

Sl. No.	Khata No.	Plot No.	Area in Acres	Area in Decimal	DEED NO.
1	95	97	0.15	15	Deed No. 8833
2	107	106	0.32	32	
3	111	72	0.12	12	
4	106	107	0.48	48	
5	101	84	0.63	63	
6	101	108	0.56	56	
7	102	74	0.22	22	
8	105	81	0.44	44	
9	105	89	0.14	14	
10	115	88	0.2	20	
11	117	78	0.08	8	
12	78	87	0.53	53	
13	80	85	0.38	38	
14	81	77	0.21	21	
15	83	90	3.11	311	
16	82	86	0.12	12	
17	88	113	0.46	46	
18	88	76	0.22	22	
19	90	91	0.35	35	
20	95	80	0.74	74	
21	97	112	0.27	27	
22	95	93	0.12	12	
23	100	92	0.16	16	
24	107	105	0.095	9.5	(sale)10776
25	107	105	0.095	9.5	(sale)10777
26	107	105	0.1	10	10159
27	107	106	0.19	19	18613
28	107	106	0.19	19	18612
29	98	109	0.42	42	15750
30	87	73	0.235	23.5	16571
31	67	79	0.06	6	14712
32	87	73	0.235	23.5	16570
			11.63	1163	

ASHIRWAD ENGICON PVT. LTD.



Managing Director

372.194 Kattha

18.609 Bigha

Annexure-IV
Site Plan

TOTAL PLOT AREA = 47162.19 SQM.

PERMISSIBLE F.A.R @2.5 = 117905.48 SQM.
PERMISSIBLE GR. COVG 40% = 18864.88 SQM.
PROPOSED GR. COVG 23.39 % = 11032.95 SQM.

TOWER 01 & 02

(AREA IN SQM.)

BASEMENT FL. F.A.R AREA =10.62
STILT FL. F.A.R AREA = 36.51
1ST FL. F.A.R AREA = 493.76
2ND FL. F.A.R AREA = 493.76
3RD FL. F.A.R AREA = 493.76
4TH FL. F.A.R AREA = 493.76
5TH FL. F.A.R AREA = 493.76
6TH FL. F.A.R AREA = 493.76
7TH FL. F.A.R AREA = 493.76
8TH FL. F.A.R AREA = 493.76
9TH FL. F.A.R AREA = 493.76
10TH FL. F.A.R AREA = 493.76
11TH FL. F.A.R AREA = 493.76
12TH FL. F.A.R AREA = 493.76
13TH FL. F.A.R AREA = 484.35
14TH FL. F.A.R AREA = 243.63
TOTAL F.A.R AREA = 6700.23
TOWER 01 F.A.R AREA = 6700.23
TOWER 02 F.A.R AREA = 6700.23

TOWER - 03

(AREA IN SQM.)

BASEMENT FL. F.A.R AREA = 80.66
STILT FL. F.A.R AREA = 173.69
1ST FL. F.A.R AREA = 2412.58
2ND FL. F.A.R AREA = 2412.58
3RD FL. F.A.R AREA = 2412.58
4TH FL. F.A.R AREA = 2412.58
5TH FL. F.A.R AREA = 2412.58
6TH FL. F.A.R AREA = 2412.58
7TH FL. F.A.R AREA = 2412.58
8TH FL. F.A.R AREA = 2412.58
9TH FL. F.A.R AREA = 2412.58
10TH FL. F.A.R AREA = 2412.58
11TH FL. F.A.R AREA = 2412.58
12TH FL. F.A.R AREA = 2412.58
13TH FL. F.A.R AREA = 2429.13
14TH FL. F.A.R AREA = 2198.58
TOTAL F.A.R AREA = 33833.02

TOWER - 04, 05 & 06

(AREA IN SQM.)

BASEMENT FL. F.A.R AREA = 11.55
STILT FL. F.A.R AREA = 94.44
1ST FL. F.A.R AREA = 1217.13
2ND FL. F.A.R AREA = 1217.13
3RD FL. F.A.R AREA = 1217.13
4TH FL. F.A.R AREA = 1217.13
5TH FL. F.A.R AREA = 1217.13
6TH FL. F.A.R AREA = 1217.13
7TH FL. F.A.R AREA = 1217.13
8TH FL. F.A.R AREA = 1217.13
9TH FL. F.A.R AREA = 1217.13
10TH FL. F.A.R AREA = 1217.13
11TH FL. F.A.R AREA = 1217.13
12TH FL. F.A.R AREA = 1217.13
13TH FL. F.A.R AREA = 1217.13
TOTAL F.A.R AREA = 15928.68
TOWER 04 F.A.R AREA = 15928.68
TOWER 05 F.A.R AREA = 15928.68
TOWER 06 F.A.R AREA = 15928.68

PARKING CALCULATION:-

TOTAL BUILT UP AREA ALL TOWERS = 117905.32 SQM.
SERVICES AREA DEDUCTION @ 15% OF TOTAL BUI AREA = 17685.79 SQM.
(117905.32 SQM @ 15% = 17685.79 SQM.)
TOTAL BUILT UP AREA FOR PARKING CALCULATION = 117905.32 - 17685.79 = 100219.53 SQM.

TOTAL BUILT UP AREA = 100219.53 SQM.
REQUIRED PARKING @ 25% OF BUI AREA = 25054.88 SQM.

PARKING AREA PROVIDED IN STILT FLOOR = 11387.82 SQM.
PARKING AREA PROVIDED IN BASEMENT = 45010.17 SQM.
TOTAL PROVIDED PARKING AREA = 56397.99 SQM.

LIG & EWS PARKING :

AREA REQUIRED FOR LIG & EWS PARKING @ 2.00 SQM./ UNIT
TOTAL NO. OF UNITS = 332
AREA REQUIRED FOR PARKING = 332 X 2 = 664 SQM.
TOTAL AREA PROVIDED FOR PARKING IN STILT = 1754.48 SQM.

COMMERCIAL PARKING :
TOTAL BUILT UP AREA OF COMMERCIAL = 8244.32 SQM.
SERVICES AREA DEDUCTION @ 15% OF TOTAL BUI AREA = 1236.64 (8244.32 SQM @ 15% = 1236.64 SQM.)
TOTAL BUILT UP AREA = 8244.32 - 1236.64 = 7007.62 SQM.

TOTAL BUILT UP AREA = 7007.62 SQM.
REQUIRED PARKING @ 35% OF BUI AREA = 2452.68 SQM.

PARKING AREA PROVIDED IN OPEN = 487.50 SQM.
PARKING AREA PROVIDED IN BASEMENT = 4795.71 SQM.
TOTAL PARKING AREA PROVIDED IN BASEMENT = 5283.21 SQM.

GREEN AREA CALCULATION:-

TOTAL NET PLOT AREA = 47162.19 Sqm.
GREEN SPACE AREA % Req'd = 47162.19 @10% = 4716.21 Sqm.
TOTAL PROVIDED GREEN SPACE @ 27.70 % = 13066.00 Sqm.

WATER SUPPLY CALCULATION:-

TOTAL BUILT UP AREA = 117905.32 SQM.
10 SQM. PER PERSON = 11790.532 SQM.
WATER REQUIREMENT @ 45 LT. PER DAY PER PERSON = 11790.532 X 45 = 530573.9 LT. = 530.57 CUM
WATER TANK CAPACITY REQUIRED FOR FIRE = 45,000 LT. = 45.00 CUM
SO TOTAL WATER REQD. = 530.57 + 45.00 = 575.57 CUM.
PROVIDED PROPOSED WATER TANK = 6.25 X 4.25 X 1.8 = 47.25 X 1.4 = 661.5 CUM.

S.T.P. LIFT CALCULATION

TOTAL BUILT UP AREA = 117905.32 SQM.
10 SQM. PER PERSON = 11790.532 SQM.
REQUIRED CAPACITY 0.085 X 11790.532 = 1002.19 CUM
PROPOSED S.T.P. = 15.0 X 22.5 X 3.0 + 0.5 FB = 1012.8 KLD.

RAIN WATER HARVESTING CHAMBER CALCULATION:-

TOTAL TERRACE AREA = 10623.72 SQM.
REQUIRED VOLUME FOR R.W.H CHAMBER = 10623.72 X 6 / 100 = 637.42 CUM.
PROVIDED 4 CHAMBER (3.0 X 3.0 X 10.0 M. DEEP)
= (25 X 25) X 10 = 3.14 X (3.0 X 3.0 / 4) X 10 = 70.65 SQM.
PROPOSED 10 CHAMBER = 10 X 70.65 = 706.5 SQM.

TOWER - 07

(AREA IN SQM.)

BASEMENT FL. F.A.R AREA = 11.55
STILT FL. F.A.R AREA = 94.44
1ST FL. F.A.R AREA = 1217.13
2ND FL. F.A.R AREA = 1217.13
3RD FL. F.A.R AREA = 1217.13
4TH FL. F.A.R AREA = 1217.13
5TH FL. F.A.R AREA = 1217.13
6TH FL. F.A.R AREA = 1217.13
7TH FL. F.A.R AREA = 1217.13
8TH FL. F.A.R AREA = 1217.13
9TH FL. F.A.R AREA = 1217.13
10TH FL. F.A.R AREA = 1217.13
11TH FL. F.A.R AREA = 1046.45
TOTAL F.A.R AREA = 13323.74

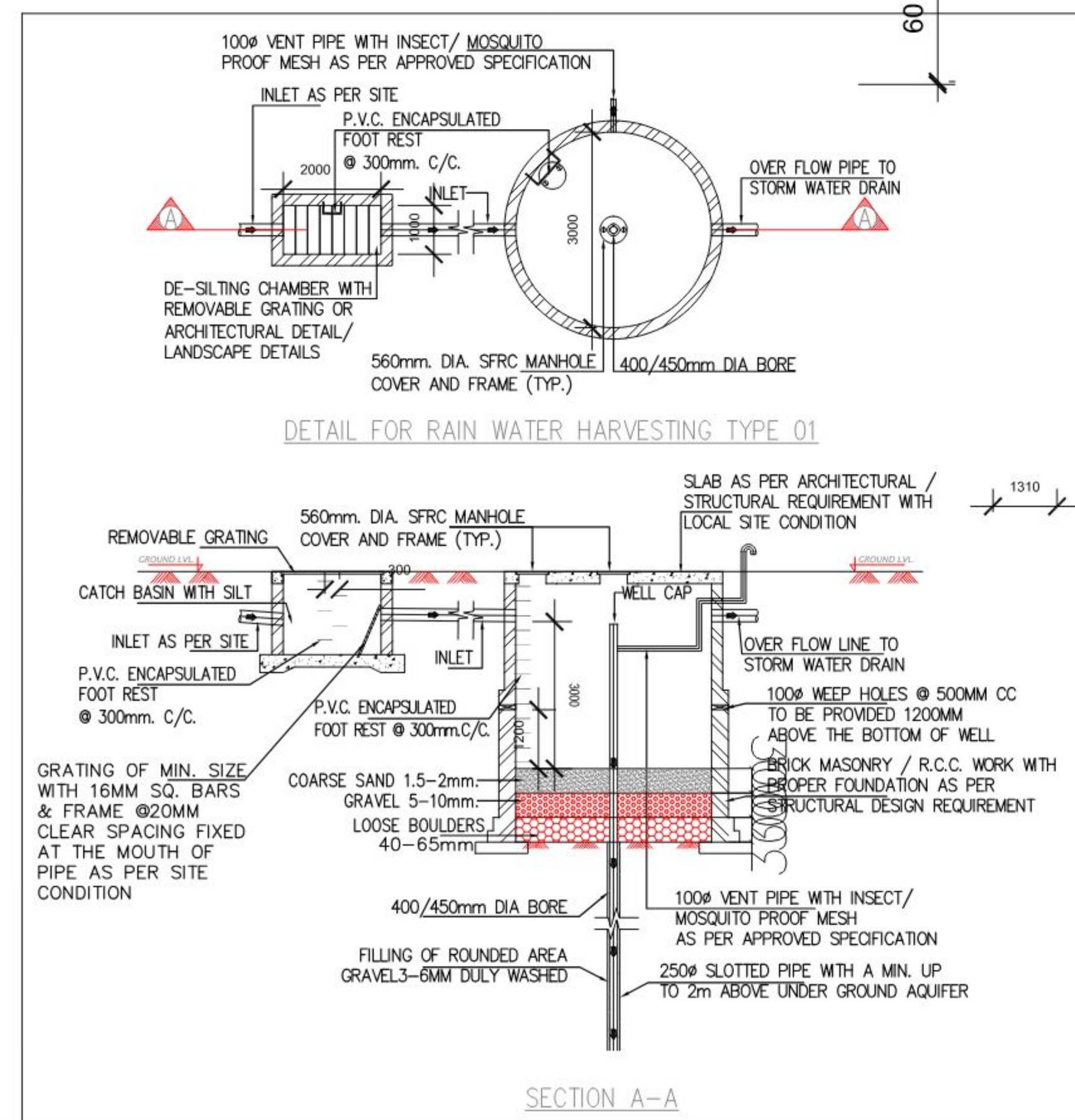
TOWER - 08 (LIG & EWS)

(AREA IN SQM.)

BASEMENT FL. F.A.R AREA = 22.27
STILT FL. F.A.R AREA = 130.12
1ST FL. F.A.R AREA = 1261.31
2ND FL. F.A.R AREA = 1261.31
3RD FL. F.A.R AREA = 1261.31
4TH FL. F.A.R AREA = 1261.31
5TH FL. F.A.R AREA = 1261.31
6TH FL. F.A.R AREA = 1261.31
7TH FL. F.A.R AREA = 1261.31
8TH FL. F.A.R AREA = 1261.31
9TH FL. F.A.R AREA = 1261.31
10TH FL. F.A.R AREA = 1261.31
11TH FL. F.A.R AREA = 1261.31
12TH FL. F.A.R AREA = 1261.31
13TH FL. F.A.R AREA = 1261.31
14TH FL. F.A.R AREA = 1023.11
TOTAL F.A.R AREA = 17572.53

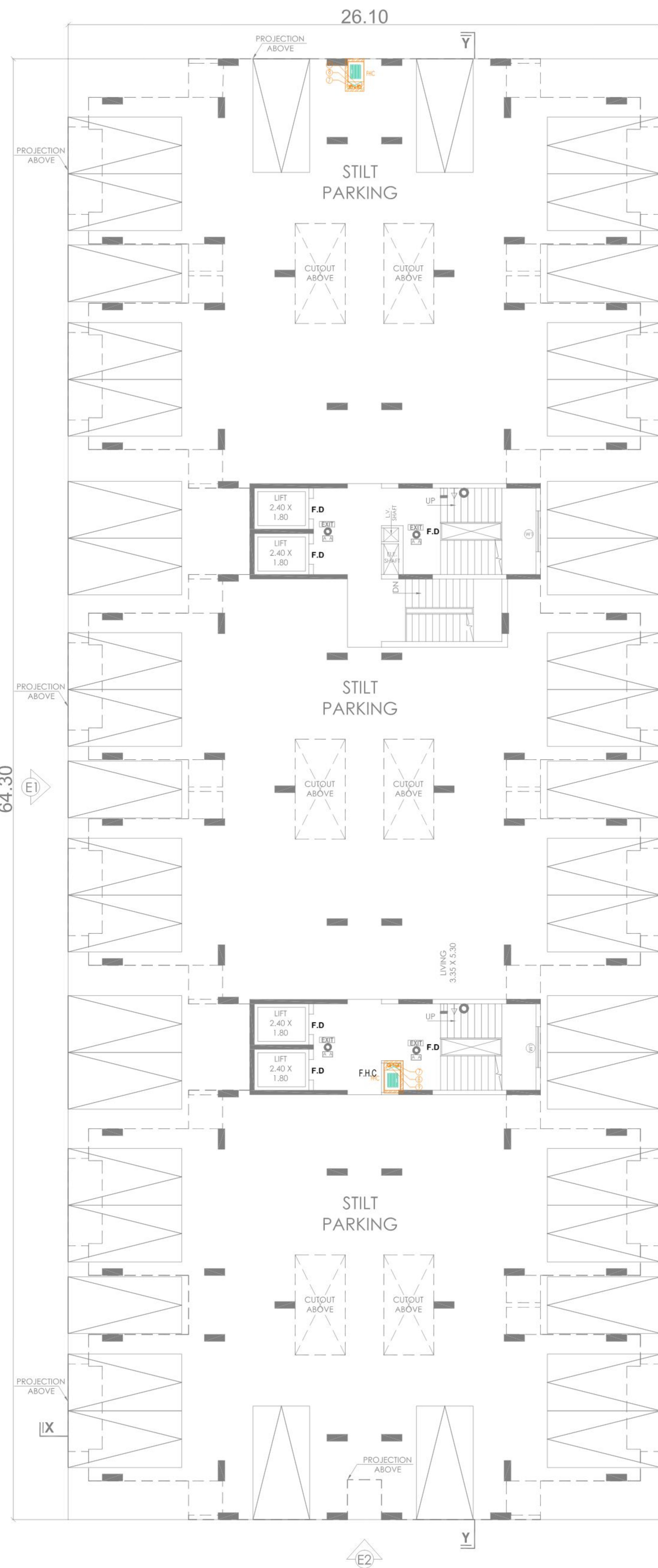
TOTAL F.A.R AREA ALL TOWER
(AREA IN SQM.)

TOWER 01 = 6700.23
TOWER 02 = 6700.23
TOWER 03 = 33833.02
TOWER 04 = 15928.68
TOWER 05 = 15928.68
TOWER 06 = 15928.68
TOWER 07 = 13323.74
COMMERCIAL = 8244.32
CLUB & TEMPLE = 1317.74
TOTAL AREA = 117905.32
TOTAL PROPOSED F.A.R AREA = 117905.32 SQM. @ 2.5 F.A.R

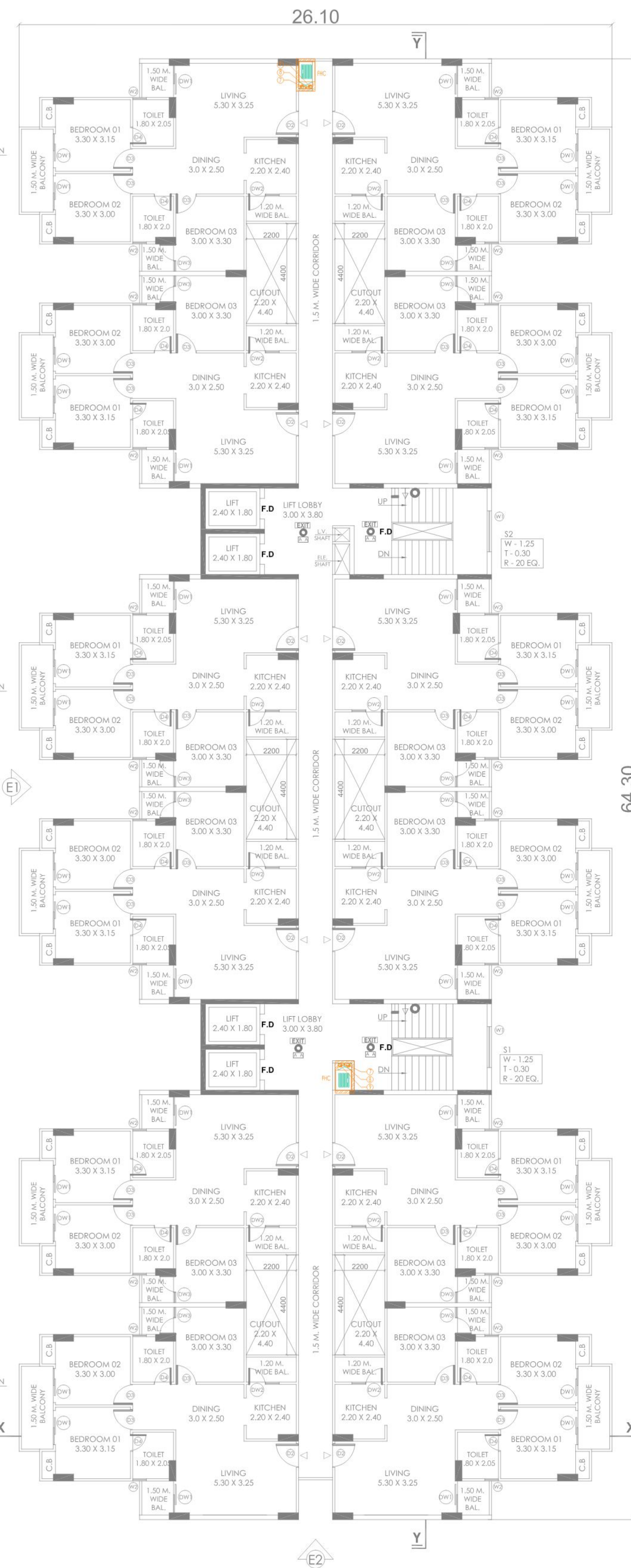


Annexure-V

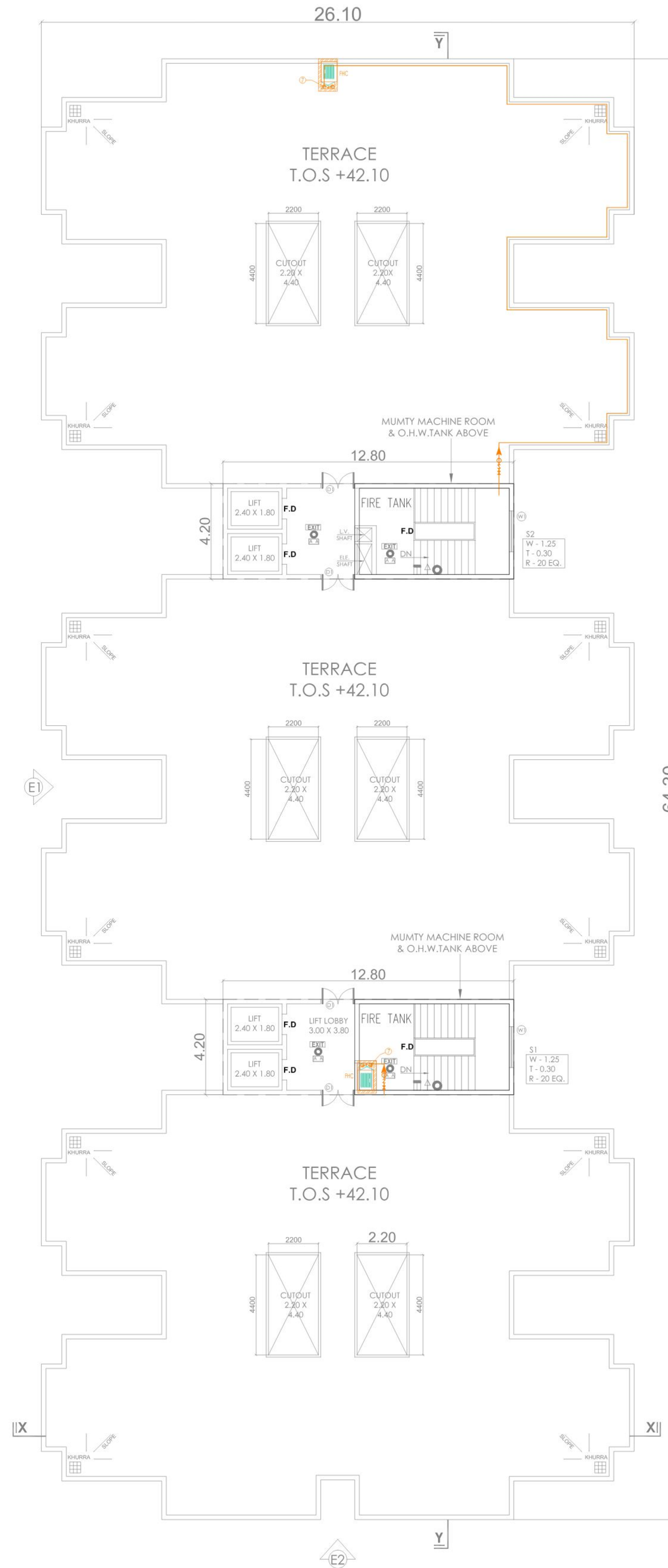
Floor Plan



STILT FLOOR PLAN

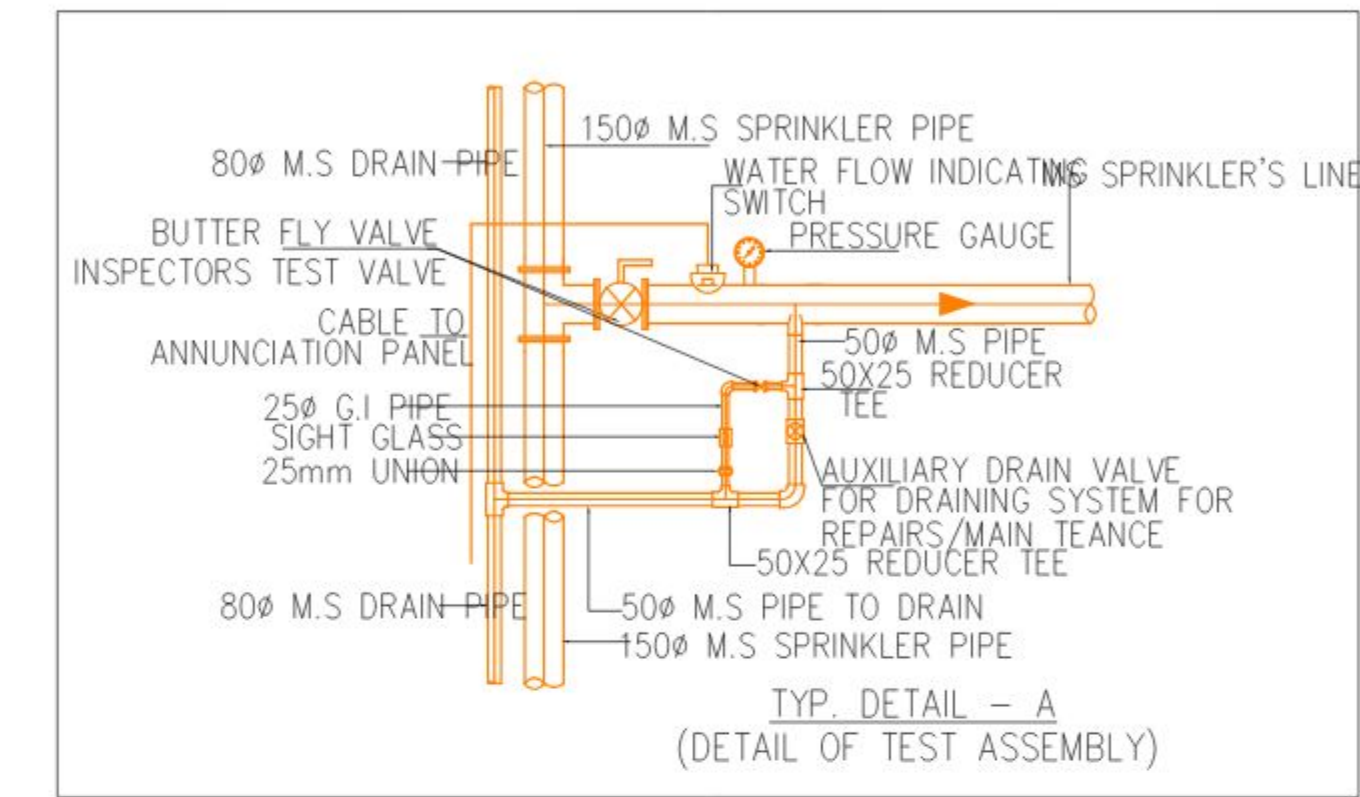


TYPICAL FLOOR PLAN
(1ST TO 13TH)



TERRACE FLOOR PLAN

LEGEND:-	
SYMBOL	DESCRIPTION
7	150# FIRE PIPE
8	80# DRAIN PIPE
9	150# SPRINKLER RISER
FHC	FIRE HOSE CABINET
9 Lts WATER CO2 TYPE FIRE EXTINGUISHER	
4.5 Kg CO2FIRE EXTINGUISHER	



DOOR WINDOW SCHEDULE			
TYPE	SIZE	CILL	LINTEL
DW1	1.50 X 2.10	----	2.10
DW2	1.35 X 2.10	----	2.10
D1	1.50 X 2.10	----	2.10
D2	1.05 X 2.10	----	2.10
D3	0.90 X 2.10	----	2.10
D4	0.75 X 2.10	----	2.10
W1	1.80 X 1.20	----	AS PER ELEVATION
W2	0.60 X 1.20	0.90	2.10

PROJECT:
PROPOSED GROUP HOUSING "ASHIRWAD SUNDAR LAL CITY"
FOR M/S. ASHIRWAD ENGICON PVT.LTD.
KHATA NO.-
95,107,111,106,101,101,102,105,105,115,117,
78,80,81,83,82,88,88,90,95,97,95,100,87,98,67,
PLOT NO.-
97,106,72,107,84,108,74,81,89,88,78,87,85,77,90,
86,113,76,91,80,112,93,92,73,109,71,106,105,
THANA - GOPALPUR
THANA NO. - 100
HAUJA - BHELWARA
VILLAGE & P.O - MITTANCHAK
DISTRICT - PATNA
STATE - BIHAR

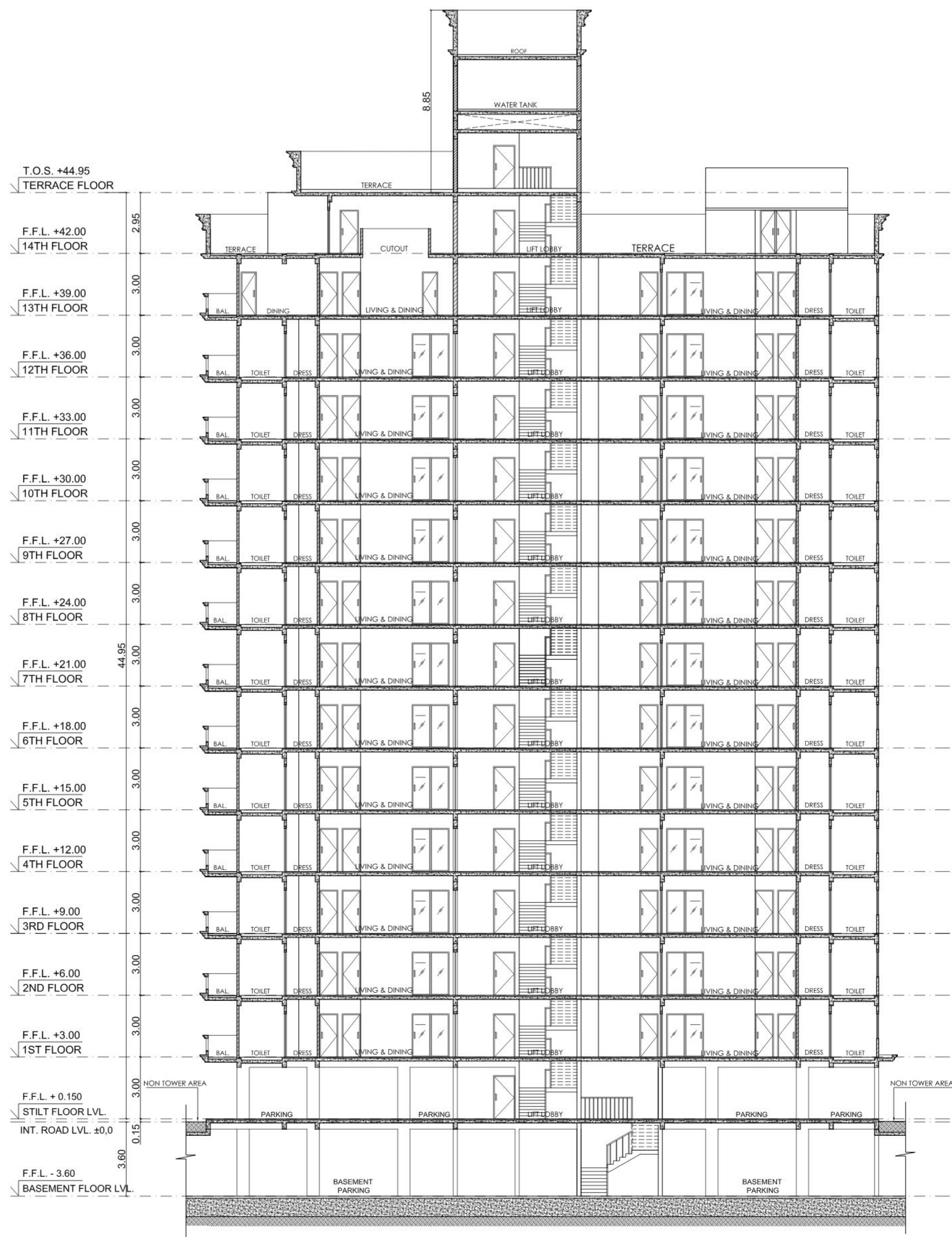
SHEET TITLE:
**TOWER - 06
FLOORS PLAN
FIRE FIGHTING LAYOUT**
SCALE = 1:100
OR
Mentioned
NORTH
DRAWN BY : SOHAN
SHEET NO. - 12

SIGNATURE OF OWNER/ FIRM / COMPANY
ARCHITECT:
DES ARC
ARCHITECTS, INTERIORS, PLANNING
UGBR - 1A, ANSAL PLAZA, SECTOR - I, VAISHALI, GZB
PH: 0120 - 4149410 M: 09818711273
EMAIL: desarc14@gmail.com

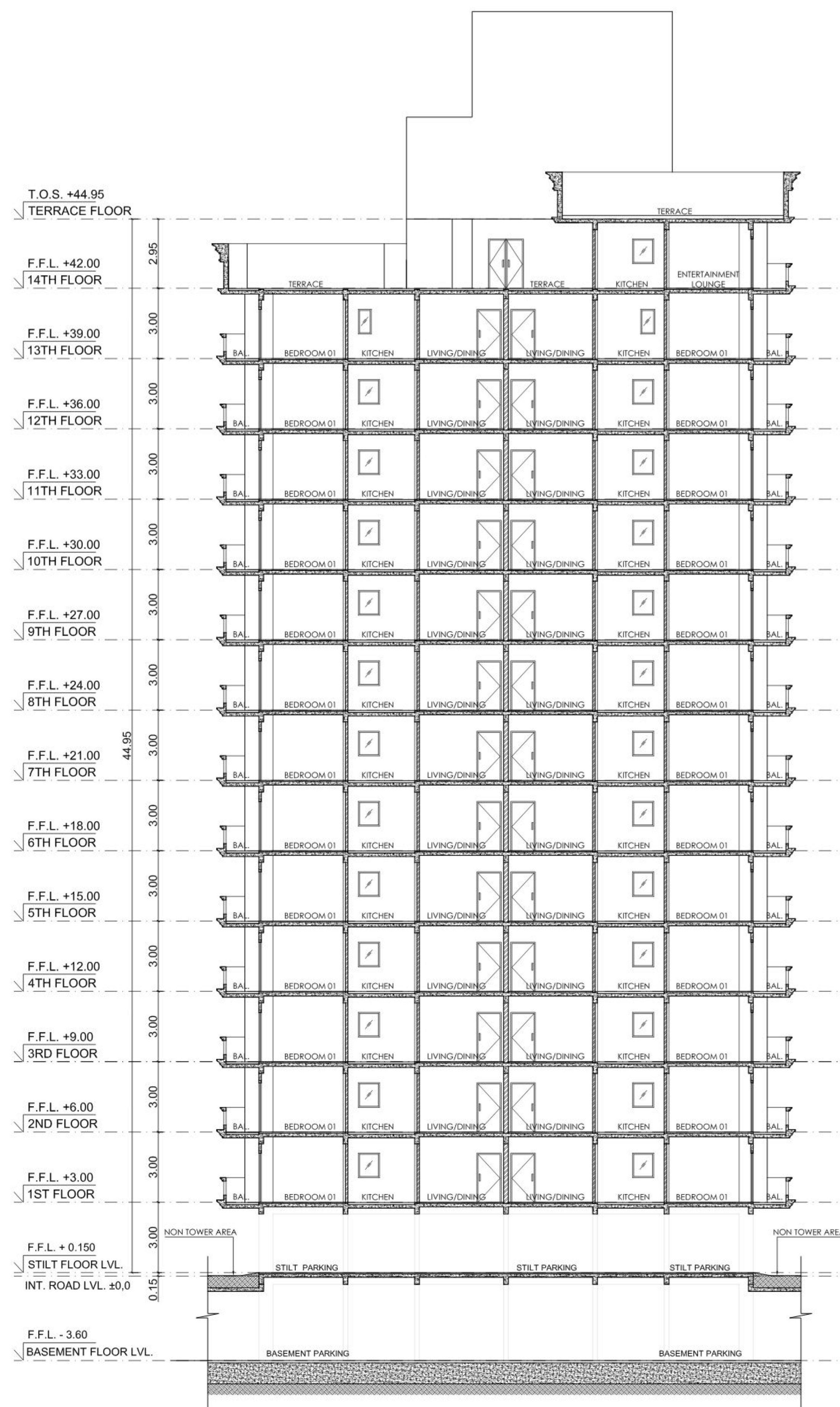
Nishant Shekhar
NISHANT SHEKHAR
CA/2006/39203
SIGNATURE OF ARCHITECT
SIGNATURE OF STRUCTURAL ENGINEER

Annexure-VI

Section Plan



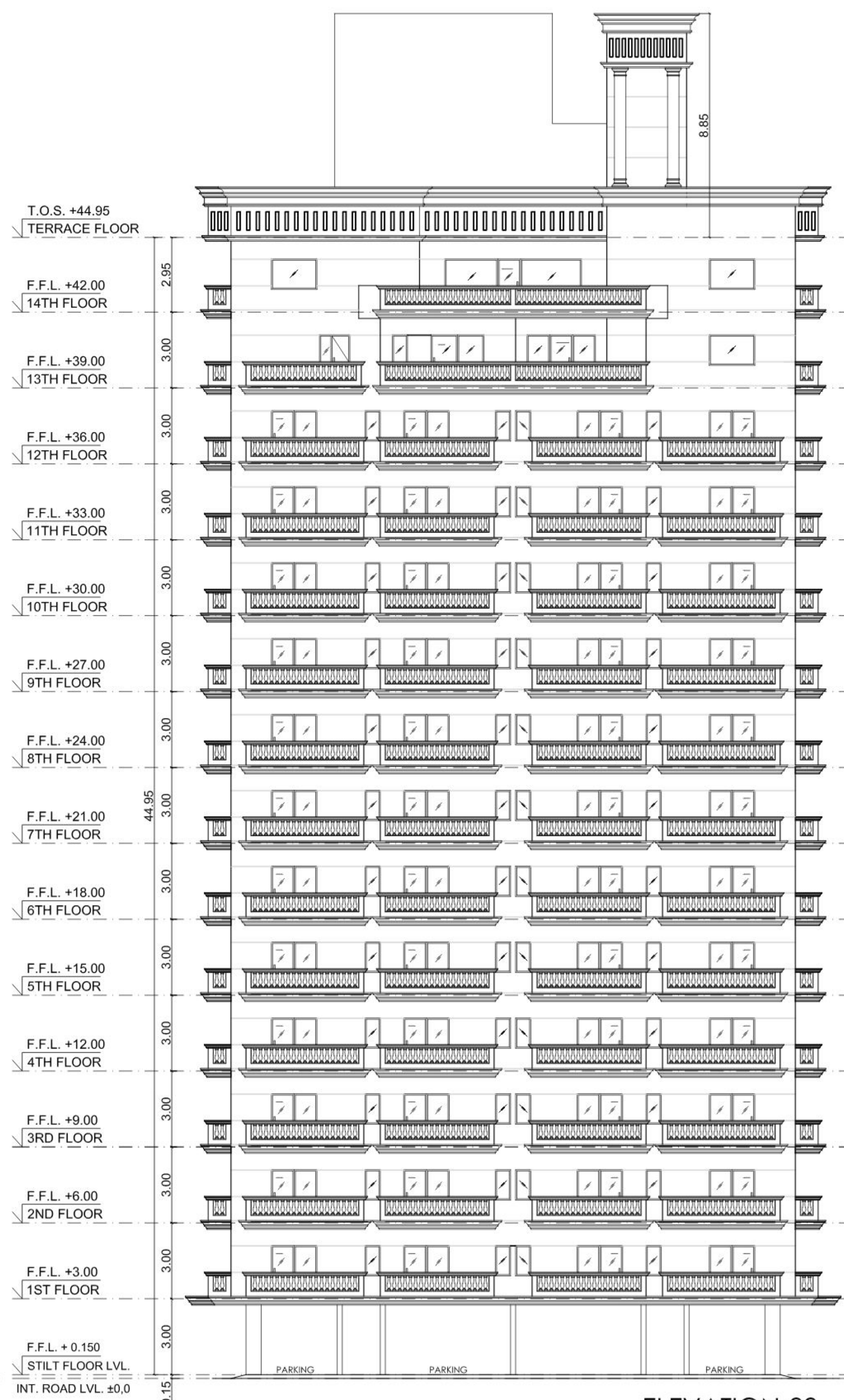
SECTION - XX



SECTION - YY



ELEVATION-11

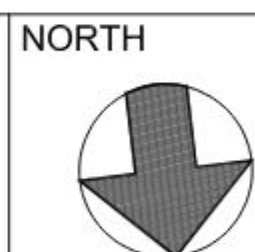


ELEVATION-22

PROJECT:
PROPOSED GROUP HOUSING "ASHIRWAD
SUNDAR LAL CITY"
FOR M/S. ASHIRWAD ENGICON PVT.LTD.
KHATA NO. -
95,107,111,106,101,101,102,105,105,115,117,
78,80,81,83,82,88,88,90,95,97,95,100,87,98,67,
PLOT NO. -
97,106,72,107,84,108,74,81,89,88,78,87,85,77,90,
86,113,76,91,80,112,93,92,73,109,71,106,105,
THANA - GOPALPUR
THANA NO. - 100
MAUJA - BHELWARA
VILLAGE & P.O - MITTANCHAK
DISTRICT - PATNA
STATE - BIHAR

SHEET TITLE:
TOWER - 01 & 02
ELEVATIONS & SECTIONS

SCALE = 1:100
OR
Mentioned



DRAWN BY : ABHI
SHEET NO. - 10

SIGNATURE OF OWNER/ FIRM / COMPANY
ARCHITECT:
DES ARC
ARCHITECTS, INTERIORS, PLANNING
UGSR - 1A, ANSAL PLAZA, SECTOR - I, VAISHALI, GZB
PH: 0120 - 4140410 M: 0-9818711273
EMAIL- desarc14@gmail.com

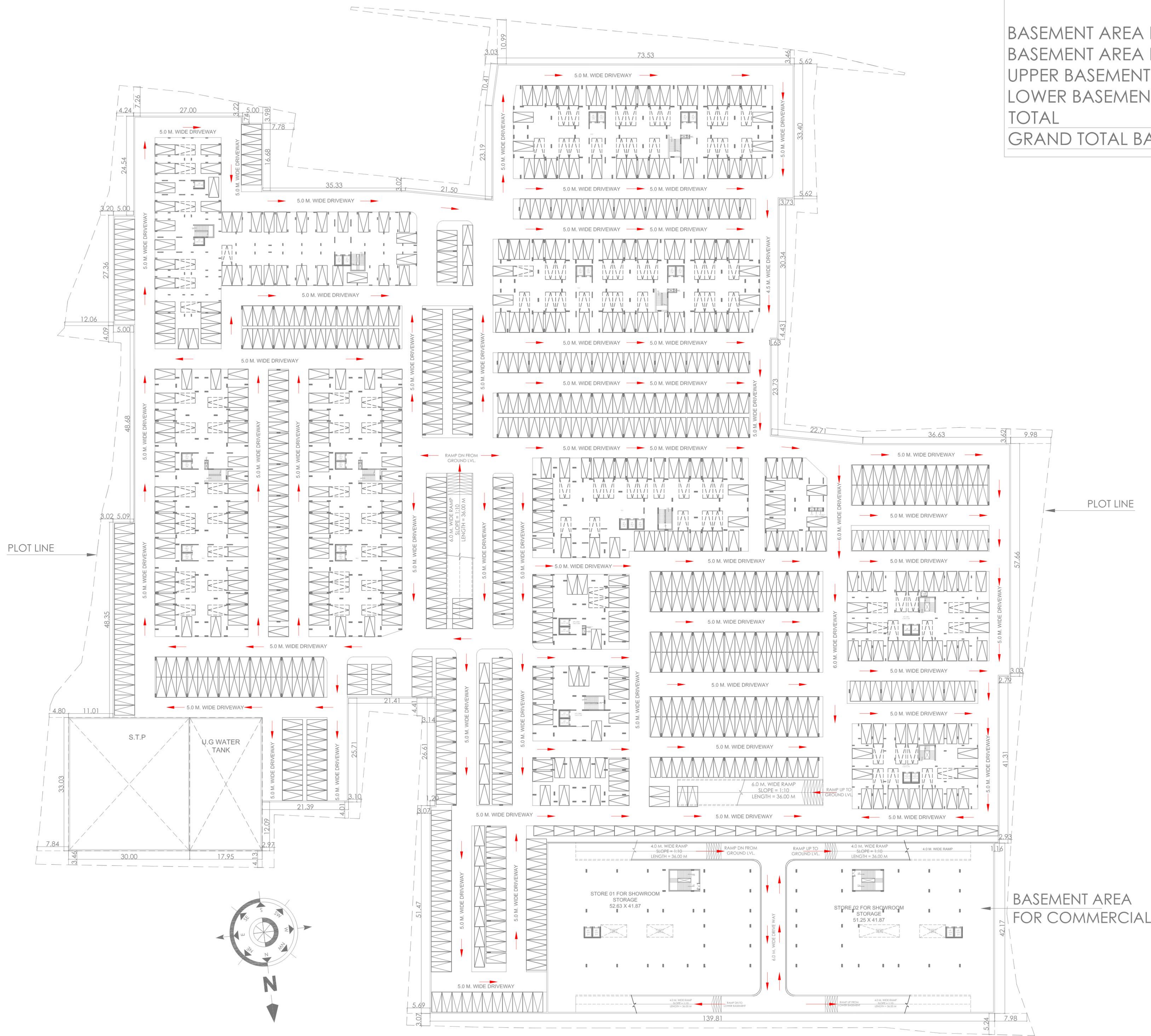
SIGNATURE OF ARCHITECT

SIGNATURE OF STRUCTURAL ENGINEER

Annexure-VII

Parking Plan

BASEMENT AREA FOR HOUSING = 35418.75 SQM.
BASEMENT AREA FOR COMMERCIAL :-
UPPER BASEMENT AREA = 4795.71 SQM.
LOWER BASEMENT AREA = 4795.71 SQM.
TOTAL = 45010.17 SQM.
GRAND TOTAL BASEMENT AREA = 45010.17 SQM.



PROJECT:
PROPOSED GROUP HOUSING "ASHIRWAD SUNDAR LAL CITY"
FOR M/S. ASHIRWAD ENGICON PVT.LTD.

KHATA NO.:-
95.107.111.106.101.101.102.105.105.115.117.
78.80.81.83.82.88.88.90.95.97.95.100.87.87.98.67.

PLOT NO.:-
97.106.72.107.84.108.74.81.89.88.78.87.85.77.90.
86.113.76.91.80.112.93.92.73.109.71.106.105.

THANA - GOPALPUR
THANA NO. - 100
MAUJA - BHILWARA
VILLAGE & P.O. - MITTANCHAK
DISTRICT - PATNA
STATE - BIHAR

SHEET TITLE:
BASEMENT PLAN
INTERNAL TRAFFIC CIRCULATION

SCALE = 1:100
OR
Mentioned

NORTH

DRAWN BY : SOHAN
SHEET NO. - 02

SIGNATURE OF OWNER/ FIRM / COMPANY

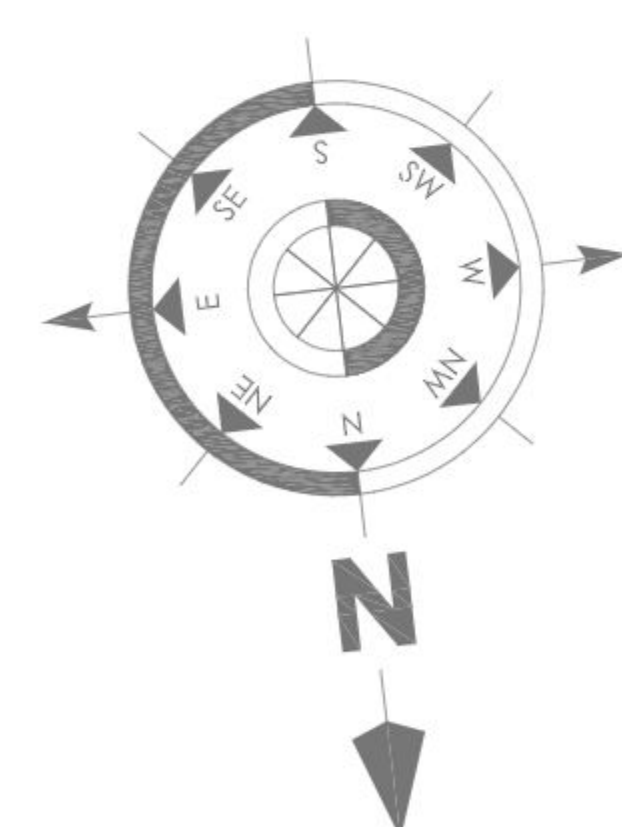
ARCHITECT:
DES ARC
ARCHITECTS, INTERIORS, PLANNING
U3SR - 1A ANSAL PLAZA, SECTOR - I, VAISHALI, GZB
Ph: 0120 - 4140410 M: 0-9818711273
EMAIL: desarc14@gmail.com

Nishant Shekhar
NISHANT SHEKHAR
CA/2006/39203

SIGNATURE OF ARCHITECT

SIGNATURE OF STRUCTURAL ENGINEER

LOWER BASEMENT AREA FOR COMMERCIAL = 4795.71 SQM.



LOWER BASEMENT AREA
FOR COMMERCIAL

42.42

110.97

PROJECT:
PROPOSED GROUP HOUSING "ASHIRWAD SUNDAR LAL CITY"
FOR M/S. ASHIRWAD ENGICON PVT.LTD.
KHATA NO.-
95,107,111,106,101,101,102,105,105,115,117,
78,80,81,83,82,88,88,90,95,97,95,100,87,87,98,67,
PLOT NO. :-
97,106,72,107,84,108,74,81,89,88,78,87,85,77,90,
86,113,76,91,80,112,93,92,73,109,71,106,105,
THANA - GOPALPUR
THANA NO. - 100
MAUJA - BHELWARA
VILLAGE & P.O - MITTANCHAK
DISTRICT - PATNA
STATE - BIHAR

SHEET TITLE:
LOWER BASEMENT PLAN COMMERCIAL
INTERNAL TRAFFIC CIRCULATION

SCALE = 1:100
OR
Mentioned
NORTH
DRAWN BY : SOHAN
SHEET NO. - 02

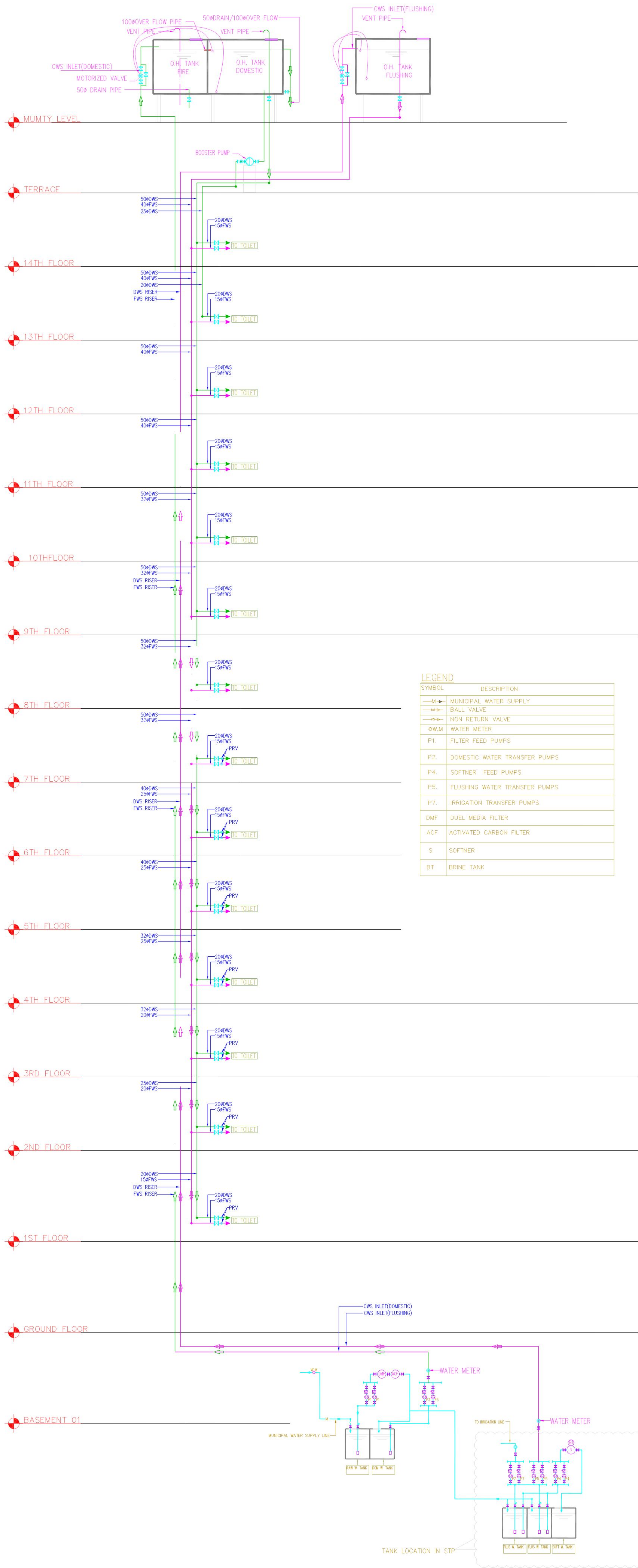
SIGNATURE OF OWNER/ FIRM / COMPANY

ARCHITECT:
DES ARC
ARCHITECTS, INTERIORS, PLANNING
U3SR - 1A ANSAL PLAZA, SECTOR - I, VAISHALI, Q2B
Ph: 0120 - 4140410 M: 0-9818711273
EMAIL - desarc14@gmail.com

Nishant Shekhar
NISHANT SHEKHAR
CA/2006/55263
SIGNATURE OF ARCHITECT
SIGNATURE OF STRUCTURAL ENGINEER

Annexure –VIII
Schematic Diagram For Fire Fighting

Annexure – IX
Dual Plumbing Plan



PROJECT:	
PROPOSED GROUP HOUSING "ASHIRWAD DUNDAR LAI CITY"	
FOR M/S. ASHIRWAD ENGINEERING PVT. LTD.	
KATA NO. -	
78.50.71.1, 104.101.101.101, 102.105.105.115, 117.	
78.80.81.82, 82.88.88.90, 93.97.93.100, 87.87.86.47.	
PLOT NO. -	
97.158.72.107.84.108.74.81.89.88.78.87.83.77.90.	
86.13.74.97.80.112.93.92.73.109.71.106.105.	
THANA - GOPALPUR	
THANA NO. - 100	
MAJRA - BHULWARA	
VILLAGE & P.O. - JATIANCHAK	
DISTRICT - PUNJAB	
STATE - BHAR	
SHEET TITLE:	
SCHEMATIC DIAGRAM FOR WATER SUPPLY	
SCALE = NTS	DRAWN BY :
	SHEET NO. -
	FL-WS-SCH-01
SIGNATURE OF OWNER/ FIRM / COMPANY	
ARCHITECT:	
DES. ARCH.	
ARCHITECTS, INTERIORS, PLANNING	
USER - LA, ANSAL PLAZA, SECTOR - 1, VASHTAL, GZB	
PIN CODE - 160002 & 160011073	
EMAIL - ansal12@gmail.com	
SIGNATURE OF ARCHITECT	
SIGNATURE OF STRUCTURAL ENGINEER	

Annexure –X
Evacuation Plan

TOWER 08
(B + S + 14)
(BUILDING HT. 44.95 M.)

TOWER 05
(B + S + 13)
(BUILDING HT. 42.10 M.)

TOWER 04
(B + S + 13)
(BUILDING HT. 42.10)

TOWER 07
(B + S + 11)
(BUILDING HT. 36.10)

TOWER 06
(B + S + 13)
(BUILDING HT. 42.10 M.)

TOWER 02
(B + S + 14)
(BUILDING HT. 44.95 M.)

TOWER 01
(B + S + 14)
(BUILDING HT. 44.95 M.)

COMMERCIAL BLOCK
(LB + UB + G + 4)
(BUILDING HT. 23.80 M.)

EVACUATION LINE

PROJECT:
PROPOSED GROUP HOUSING "ASHIRWAD SUNDAR LAL CITY"
FOR M/S. ASHIRWAD ENGICON PVT.LTD.
KHATA NO.-
95.107.111.106.101.101.102.105.105.115.117.
78.80.81.83.82.88.88.90.95.97.95.100.87.87.98.67.
PLOT NO.-
97.106.72.107.84.108.74.81.89.88.78.87.85.77.90.
86.113.76.91.80.112.93.92.73.109.71.106.105.
THANA - GOPALPUR
THANA NO. - 100
MAUJA - BHILWARA
VILLAGE & P.O. - MITTANCHAK
DISTRICT - PATNA
STATE - BIHAR

SHEET TITLE:

SITE @ STILT LEVEL
EVACUATION DRAWING

SCALE = 1:100
OR
Mentioned



DRAWN BY : SOHAN
SHEET NO. - 02

SIGNATURE OF OWNER/ FIRM / COMPANY

ARCHITECT:
DES ARC
ARCHITECTS, INTERIORS, PLANNING
U3SR - 1A ANSAL PLAZA, SECTOR - I, VAISHALI, GZB
Ph: 0120 - 4140410 M: 0-9818711273
EMAIL: desarc14@gmail.com

Nishant Shekhar
NISHANT SHEKHAR
CA/2006/39203

SIGNATURE OF ARCHITECT SIGNATURE OF STRUCTURAL ENGINEER

TOWER 08
(B + S + 14)
(BUILDING HT. 44.95 M.)

TOWER 05
(B + S + 13)
(BUILDING HT. 42.10 M.)

TOWER 04
(B + S + 13)
(BUILDING HT. 42.10)

TOWER 07
(B + S + 11)
(BUILDING HT. 36.10)

TOWER 06
(B + S + 13)
(BUILDING HT. 42.10 M.)

TOWER 02
(B + S + 14)
(BUILDING HT. 44.95 M.)

TOWER 01
(B + S + 14)
(BUILDING HT. 44.95 M.)

COMMERCIAL BLOCK
(LB + UB + G + 4)
(BUILDING HT. 23.80 M.)

EVACUATION LINE

PROJECT:
PROPOSED GROUP HOUSING "ASHIRWAD SUNDAR LAL CITY"
FOR M/S. ASHIRWAD ENGICON PVT.LTD.
KHATA NO.-
95.107.111.106.101.101.102.105.105.115.117.
78.80.81.83.82.88.88.90.95.97.95.100.87.87.98.67.
PLOT NO.-
97.106.72.107.84.108.74.81.89.88.78.87.85.77.90.
86.113.76.91.80.112.93.92.73.109.71.106.105.
THANA - GOPALPUR
THANA NO. - 100
MAUJA - BHILWARA
VILLAGE & P.O. - MITTANCHAK
DISTRICT - PATNA
STATE - BIHAR

SHEET TITLE:

SITE @ STILT LEVEL
EVACUATION DRAWING

SCALE = 1:100
OR
Mentioned



DRAWN BY : SOHAN
SHEET NO. - 02

SIGNATURE OF OWNER/ FIRM / COMPANY

ARCHITECT:
DES ARC
ARCHITECTS, INTERIORS, PLANNING
U3SR - 1A ANSAL PLAZA, SECTOR - I, VAISHALI, GZB
Ph: 0120 - 4140410 M: 0-9818711273
EMAIL: desarc14@gmail.com

Nishant Shekhar
NISHANT SHEKHAR
CA/2006/39203

SIGNATURE OF ARCHITECT SIGNATURE OF STRUCTURAL ENGINEER

Annexure – XI
Landscape Plan



LEGEND

COMERCIAL	
TOWER - 01 & 02	3 BHK + 2 T + SERVANT (TYPE - 01)
	3 BHK + 2 T (TYPE - 02)
TOWER - 03	3 BHK + 2 T + SERVANT (TYPE - 03)
	PENTHOUSE
TOWER - 4, 5, 6 & 7	3 BHK + 2 T (TYPE - 02)
TOWER - 8	EW5
	LIG



PROPOSED GROUP HOUSING
"ASHIRWAD SUNDAR LAL CITY"
AT GOPALPUR, BHELWARA, PATNA FOR
M/S. ASHIRWAD ENGICON PVT. LTD.

SITE PLAN

DES ARC
ARCHITECTS, INTERIORS, PLANNING

UGSR - 1A, ANSAL PLAZA, SECTOR - I, VAISHALI, GZB
PH: 0120 - 4140410 M: 0-9818711273
EMAIL- desarc14@gmail.com

Annexure-XII

AAIA NOC

मालिक का नाम एवं पता

ASHIRWAD ENGICON PVT LTD

दिनांक/DATE:

05-12-2023

OWNERS Name & Address

Director Ajay Singh at A-9, Saroj Residency
Vivekanand Marg Opp. Sona Apartment
Patliputra Colony Patna Bihar 800013

वैधता/ Valid Up to:

04-12-2031

ऊँचाई की अनुमति हेतु अनापत्ति प्रमाण पत्र (एनओसी)

No Objection Certificate for Height Clearance

1) यह अनापत्ति प्रमाण पत्र भारतीय विमानपत्तन प्राधिकरण (भाविप्रा) द्वारा प्रदत्त दायित्वों के अनुक्रम तथा सुरक्षित एवं नियमित विमान प्रचालन हेतु भारत सरकार (नागर विमानन मंत्रालय) की अधिसूचना जी. एस. आर. 751 (ई) दिनांक 30 सितम्बर, 2015, जी. एस. आर. 770 (ई) दिनांक 17 दिसंबर 2020 द्वारा संशोधित, के प्रावधानों के अंतर्गत दिया जाता है।

1. This NOC is issued by Airports Authority of India (AAI) in pursuance of responsibility conferred by and as per the provisions of Govt. of India (Ministry of Civil Aviation) order GSR751 (E) dated 30th Sep.2015 amended by GSR770(E) dated 17th Dec 2020 for safe and Regular Aircraft Operations.

2) इस कार्यालय को निम्नलिखित विवरण के अनुसार प्रस्तावित संरचना के निर्माण पर कोई आपत्ति नहीं है।

2. This office has no objection to the construction of the proposed structure as per the following details:

अनापत्ति प्रमाणपत्र आईडी / NOC ID	PATN/EAST/B/110923/824575
आवेदक का नाम / Applicant Name*	Vinay Kumar
स्थल का पता / Site Address*	Plot No – 72,73,74,76,77,78,79,80,81,84,85,86,87,88,89,90,91,92,93,9 7,105, 106,107,108,109,112,113 Khata No- 111,87,102,88,81,117,67,95,105,101,80,82,78,115,105,83, 90,100,95,107,106,98,97, Tauzi No – 5816,Bihar Sarkar Thana No – 100 Survey Thana -Phulwarisharif Current Thana – Gopalpur Mauza – Bakarpur Bhelwara Patna Bihar,Bakarpur Bhelwara,Patna,Bihar
स्थल के निर्देशांक / Site Coordinates*	25 33 20.35N 85 08 26.42E, 25 33 24.79N 85 08 26.86E, 25 33 17.85N 85 08 28.46E, 25 33 20.19N 85 08 28.67E, 25 33 17.10N 85 08 29.44E, 25 33 17.70N 85 08 29.49E, 25 33 16.97N 85 08 32.64E, 25 33 17.76N 85 08 32.77E, 25 33 24.86N 85 08 33.61E, 25 33 22.59N 85 08 34.05E, 25 33 19.59N 85 08 34.33E, 25 33 17.71N 85 08 34.64E, 25 33 22.49N 85 08 34.68E, 25 33 19.41N 85 08 35.03E
स्थल की ऊँचाई एएमएसएल मीटर में (औसतन समुद्र तल से ऊपर), (जैसा आवेदक द्वारा उपलब्ध कराया गया) / Site Elevation in mtrs AMSL as submitted by Applicant*	54 M
अनुमन्य अधिकतम ऊँचाई एएमएसएल मीटर में (औसतन समुद्र तल से ऊपर) / Permissible Top Elevation in mtrs Above Mean Sea Level(AMSL)	124 M

*** जैसा आवेदक द्वारा उपलब्ध कराया गया / As provided by applicant ***

3) यह अनापत्ति प्रमाण पत्र निम्नलिखित नियम व शर्तों के अधीन है: -

3. This NOC is subject to the terms and conditions as given below:

क) आवेदक द्वारा उपलब्ध कराए गए स्थल की ऊँचाई तथा निर्देशांक को, प्रस्तावित संरचना हेतु अनुमन्य अधिकतम ऊँचाई जारी करने के लिए प्रयोग किया गया है। भारतीय विमान पत्तन प्राधिकरण, आवेदक द्वारा उपलब्ध कराये गए स्थल की ऊँचाई तथा निर्देशांक की यथार्थता का ना तो उत्तरदायित्व वहन करता है, और ना ही इनको प्रमाणीकृत करता है। यदि किसी भी स्तर पर यह पता चलता है कि वास्तविक विवरण, आवेदक द्वारा उपलब्ध कराए गए विवरण से भिन्न है, तो यह अनापत्ति प्रमाण पत्र अमान्य माना जाएगा तथा कानूनी कार्यवाही की जाएगी। सम्बंधित विमान क्षेत्र के प्रभारी अधिकारी द्वारा एयरक्राफ्ट नियम 1994 (भवन, वृक्षों आदि के कारण अवरोध का विध्वंस) के अधीन कार्यवाही की जायगी।

a. Permissible Top elevation has been issued on the basis of Site coordinates and Site Elevation submitted by Applicant. AAI neither owns the responsibility nor authenticates the correctness of the site coordinates & site elevation provided by the applicant. If at any stage it is established that the actual data is different, this NOC will stand null and void and action will be taken as per law. The officer in-charge of the concerned aerodrome may initiate action under the Aircraft (Demolition of Obstruction caused by Buildings and Trees etc.) Rules, 1994",

ख) अनापत्ति प्रमाण पत्र के आवेदन में आवेदक द्वारा उपलब्ध कराए गए स्थल निर्देशांक को सड़क दृश्य मानचित्र और उपग्रह मानचित्र पर अंकित किया गया है जैसा कि अनुलग्नक में दिखाया गया है। आवेदक / मालिक यह सुनिश्चित करे कि अंकित किए गए निर्देशांक उसके स्थल से मेल खाते हैं। किसी भी विसंगति के मामले में, नामित अधिकारी को अनापत्ति प्रमाण पत्र रद्द करने के लिए अनुरोध किया जाएगा।

b. The Site coordinates as provided by the applicant in the NOC application has been plotted on the street view map and satellite map as shown in ANNEXURE. Applicant/Owner to ensure that the plotted coordinates corresponds to his/her site. In case of any discrepancy, Designated Officer shall be requested for cancellation of the NOC.

ग) एयरपोर्ट संचालक या उनके नामित प्रतिनिधि, अनापत्ति प्रमाण पत्र नियमों और शर्तों का अनुपालन सुनिश्चित करने के लिए स्थल (आवेदक या मालिक के साथ पूर्व समन्वय के साथ) का दौरा कर सकते हैं।

c. Airport Operator or his designated representative may visit the site (with prior coordination with applicant or owner) to ensure that NOC terms & conditions are complied with.

घ) संरचना की ऊँचाई (सुपर स्ट्रक्चर सहित) की गणना अनुमन्य अधिकतम ऊँचाई (ए एम एस एल) से स्थल की ऊँचाई को घटाकर की जायेगी। अर्थात्, संरचना की अधिकतम ऊँचाई = अनुमन्य अधिकतम ऊँचाई (-) स्थल की ऊँचाई।

d. The Structure height (including any superstructure) shall be calculated by subtracting the Site elevation in AMSL from the Permissible Top Elevation in AMSL i.e. Maximum Structure Height = Permissible Top Elevation minus (-) Site Elevation.

च) अनापत्ति प्रमाण पत्र जारी करना, भारतीय एयरक्राफ्ट एक्ट 1934, के सैक्शन 9-A तथा इसके अंतर्गत समय-समय पर जारी अधिसूचनाएं तथा एयरक्राफ्ट नियम (1994 भवन, वृक्षों आदि के कारण अवरोध का विध्वंस) के अधीन है।

e. The issue of the 'NOC' is further subject to the provisions of Section 9-A of the Indian Aircraft Act, 1934 and any notifications issued there under from time to time including, "The Aircraft (Demolition of Obstruction caused by Buildings and Trees etc.) Rules, 1994".

छ) कोई भी रेडियो/ टीवी एंटीना, लाइटनिंग अरेस्टर, सीढ़िया, मुम्टी, पानी की टंकी अथवा कोई अन्य वस्तु तथा किसी भी प्रकार के संलग्नक उपस्कर पैरा 2 में उल्लेखित अनुमन्य अधिकतम ऊँचाई से ऊपर नहीं जानी चाहिए।

f. No radio/TV Antenna, lightening arresters, staircase, Mumty, Overhead water tank or any other object and attachments of fixtures of any kind shall project above the Permissible Top Elevation as indicated in para 2.

ज) विमानक्षेत्र संदर्भ बिंदु के 8 KM के भीतर तेल, बिजली या किसी अन्य ईंधन का उपयोग जो उड़ान संचालन के लिए धुएं का खतरा पैदा नहीं करता है, ही मान्य है।

g. Use of oil, electric or any other fuel which does not create smoke hazard for flight operation is obligatory, within 8 KM of the Aerodrome Reference Point

झ) यह प्रमाणपत्र इसके जारी होने की तारीख से 8 साल की अवधि के लिए वैध है। एक बार रिवेलीडेशन की अनुमति दी जा सकती है, बशर्ते कि इस तरह का अनुरोध एनओसी की समाप्ति की तारीख से छह महीने के भीतर किया जाए और प्रारंभिक प्रमाणपत्र 8 साल की वैधता अवधि के भीतर प्राप्त किया जाए।

h. The certificate is valid for a period of 8 years from the date of its issue. One-time revalidation shall be allowed, provided that such request shall be made within six months from the date of expiry of the NOC and commencement certificate is obtained within initial validity period of 8 years.

ट) भवन के निर्माण के दौरान या उसके बाद किसी भी समय स्थल पर ऐसी कोई भी लाइट या लाइटो का संयोजन नहीं लगाया जाएगा जिसकी तीव्रता, आकृति या रंग के कारण वैमानिक ग्राउन्ड लाइटों के साथ भ्रम उत्पन्न हो। विमान के सुरक्षित प्रचालन को प्रभावित करने वाली कोई भी गतिविधि मान्य नहीं होगी।

i. No light or a combination of lights which by reason of its intensity, configuration or colour may cause confusion with the aeronautical ground lights of the Airport shall be installed at the site at any time, during or after the construction of the building. No activity shall be allowed which may affect the safe operations of flights.

ठ) आवेदक द्वारा विमानपत्तन पर या उसके आसपास विमान से उत्पन्न शोर, कंपन या विमान प्रचालन से हुई किसी भी क्षति के विरुद्ध कोई शिकायत/दावा नहीं किया जाएगा।

j. The applicant will not complain/claim compensation against aircraft noise, vibrations, damages etc. caused by aircraft operations at or in the vicinity of the airport.

ड) डे मार्किंग तथा सहायक विद्युत आपूर्ति सहित नाइट लाइटिंग (डीजीसीए भारत की वेबसाइट www.dgca.nic.in पर उपलब्ध) नागर विमानन आवश्यकताएं श्रृंखला 'बी' पार्ट I। सैक्शन-4 के चैप्टर 6 तथा अनुलग्नक 6 में विनिर्दिष्ट दिशानिर्देशों के अनुसार उपलब्ध कराई जाएगी।

k. Day markings & night lighting with secondary power supply shall be provided as per the guidelines specified in chapter 6 and appendix 6 of Civil Aviation Requirement Series 'B' Part I Section 4, available on DGCA India website: www.dgca.nic.in

ढ) भवन के नक्शे के अनुमोदन सहित अन्य सभी वैधानिक अनापत्ति, संबंधित प्राधिकरणों से लेना आवेदक की जिम्मेदारी होगी, क्योंकि इस ऊँचाई हेतु अनापत्ति प्रमाणपत्र लेने का उद्देश्य सुरक्षित एवं नियमित विमान प्रचालन सुनिश्चित करना है तथा इसे भूमि के स्वामित्व आदि सहित किसी अन्य उद्देश्य/ दावे के लिए दस्तावेज के रूप में प्रयोग नहीं किया जा सकता।

l. The applicant is responsible to obtain all other statutory clearances from the concerned authorities including the approval of building plans. This NOC for height clearances is only to ensure safe and regular aircraft operations and shall not be used as document for any other purpose/claim whatsoever, including ownership of land etc.

ण) इस अनापत्ति प्रमाणपत्र आईडी का मूल्यांकन Patna विमानक्षेत्रों के संबंध में किया गया है। यह अनापत्ति प्रमाणपत्र भारतीय विमान पत्तन प्राधिकरण के विमानक्षेत्रों और अन्य लाइसेंस प्राप्त सिविल विमानक्षेत्रों, जो जी. एस. आर. 751 (ई) जी. एस. आर. 770 (ई) द्वारा संशोधित के अनुसूची - III, अनुसूची - IV (भाग - I), अनुसूची - IV (भाग - 2; केवल RCS हवाई अड्डे) और अनुसूची - VII में सूचीबद्ध हैं, के लिए जारी किया गया है।

m. This NOC ID has been assessed with respect to the Patna Airports. NOC has been issued w.r.t. the AAI Aerodromes and other licensed Civil Aerodromes as listed in Schedule - III, Schedule - IV (Part-I), Schedule - IV (Part-2; RCS Airports Only) and Schedule-VII of GSR 751(E) amended by GSR 770(E)



भारतीय विमानपत्तन प्राधिकरण AIRPORTS AUTHORITY OF INDIA

PATN/EAST/B/110923/824575

त) यदि स्थल रक्षा विभाग के विमान क्षेत्र के अधिकार क्षेत्र में आता है, जैसा कि जीएसआर 751 (ई) की अनुसूची-V में सूचीबद्ध है, तो आवेदक को रक्षा विभाग से अलग से अनापत्ति प्रमाणपत्र लेना होता है। जीएसआर 751 (ई) जी. एस. आर. 770 (ई) द्वारा संशोधित के नियम 13 के अनुसार, आवेदकों को उन स्थलों के लिये, जो जीएसआर 751 (ई) जी. एस. आर. 770 (ई) द्वारा संशोधित के अनुसूची- IV (भाग -2; आरसीएस हवाई अड्डों के अलावा) के रूप में सूचीबद्ध बिना लाइसेंस वाले विमान क्षेत्र के अधिकार क्षेत्र में आता हैं, तो संबंधित राज्य सरकार से भी अनापत्ति प्रमाणपत्र लेने की आवश्यकता है।

n. Applicant needs to seek separate NOC from Defence, if the site lies within the jurisdiction of Defence Aerodromes as listed in Schedule – V of GSR 751 E amended by GSR770(E). As per rule 13 of GSR 751 E amended by GSR770(E), applicants also need to seek NOC from the concerned state government for sites which lies in the jurisdiction of unlicensed aerodromes as listed in Schedule-IV (Part-2; other than RCS airports) of GSR 751 E amended by GSR770(E)

थ) अनापत्ति प्रमाण पत्र (एनओसी) की किसी भी त्रुटि/व्याख्या की स्थिति में अंगरेजी अनुवाद ही मान्य होगा।

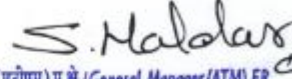
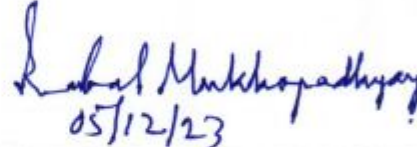
o. In case of any discrepancy/interpretation of NOC letter, English version shall be valid.

द) स्थल की ऊँचाई और/या संरचना की ऊँचाई के किसी भी विवाद में अनुमन्य अधिकतम ऊँचाई एएमएसएल में ही मान्य होगी।

p. In case of any dispute with respect to site elevation and/or AGL height, Permissible Top Elevation in AMSL shall prevail.

क्षेत्र का नाम / Region Name:

पूर्व/EAST

पदनामित अधिकारी/Designated Officer	 महाप्रबंधक (एटीएम) पू.वे./General Manager (ATM) ER भारतीय विमानपत्तन प्राधिकरण/Airports Authority of India ने.सु.च.ब.अ. हवाई अड्डा/N.S.C.B.I. Airport कोलकाता/Kolkata 700052
नाम/ पदनाम/दिनांक सहित हस्ताक्षर Name/Designation/Sign with date	
द्वारा तैयार Prepared by	 05.12.23
द्वारा जांचा गया Verified by	 05/12/23

ईमेल आईडी / EMAIL ID : gmatmer@aai.aero

फोन/ Ph: 033-25111293

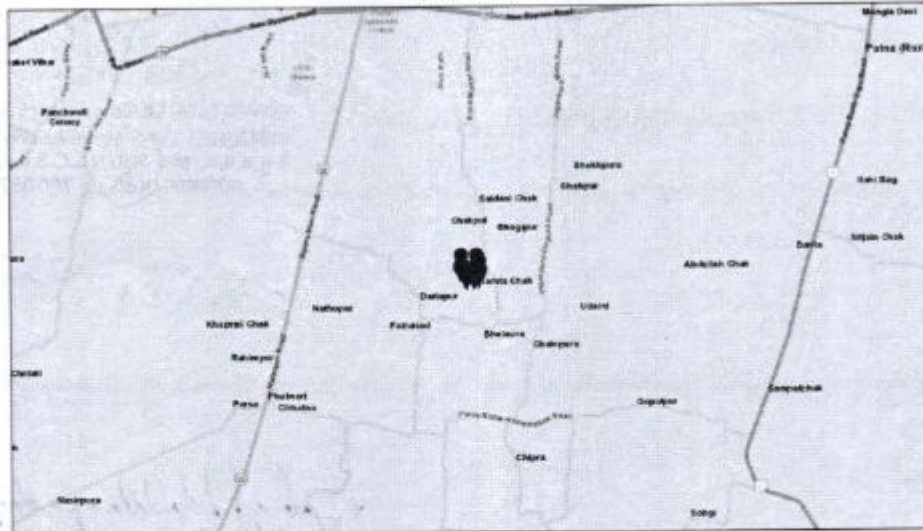
ANNEXURE/अनुलग्नक

Distance From Nearest Airport And Bearing/निकटतम विमानक्षेत्र से दूरी और बीयरिंग

Airport Name/ विमानक्षेत्र का नाम	Distance (Meters) from Nearest ARP/निकटतम विमानक्षेत्र संदर्भ बिंदु से दूरी (मीटर में)	Bearing(Degree) from Nearest ARP/निकटतम विमानक्षेत्र संदर्भ बिंदु से बीयरिंग (डिग्री)
Patna	6375.75	130.53
NOCID	PATN/EAST/B/110923/824575	



PATN/EAST/B/110923/824575



0 0.5 1 2 km

0 0.25 0.5 1.0 mi

1:45,000

Source: U.S. Navy, *Electronic Navigation*, and the U.S. Coast Guard

Annexure-XIII

Fire NOC

औपबंधिक अग्नि निवारण एवं अग्नि सुरक्षा अनापत्ति प्रमाण पत्र
 बिहार अग्निशमन सेवा अधिनियम, 2014 की धारा-02 की उपधारा-(छ) के अधीन
 बिहार अग्निशमन सेवा नियमावली, 2021 के नियम 15(च)(iii) के अन्तर्गत
निदेशक, राज्य अग्निशमन सेवा, बिहार, पटना का कार्यालय।

प्रेषक,

सेवा में,

निदेशक,
 राज्य अग्निशमन सेवा,
 बिहार, पटना ।

M/s Ashirwad Engicon Pvt. Ltd.
 भेलवाड़ा, पटना ।

संदर्भ :- क्रमांक 91978 दिनांक 28/11/2023.

आवेदनकर्ता वास्तुविद, निशांत शेखर (विशिष्ट आई.डी.नं० 157/2023)

विषय :- भवन निर्माण के लिए औपबंधिक अनापत्ति प्रमाण पत्र निर्गत ।

महाशय,

राज्य अग्निशमन सेवा, बिहार, पटना के द्वारा गठित अग्नि सुरक्षा एवं निवारण स्कंध (FSPW) की संतुष्टि के उपरान्त व उक्त समिति में शामिल विशेषज्ञों की अनुशंसा के आलोक में भवन निर्माणकर्ता मे० M/s Ashirwad Engicon Pvt. Ltd. के द्वारा प्रस्तावित भवन/ब्लॉक का निर्माण हेतु बिहार अग्निशमन सेवा नियमावली, 2021 के नियम 15(च)(iii) के अंतर्गत औपबंधिक अनापत्ति प्रमाण पत्र निर्गत किया जाता है ।

प्रस्तावित भवन योजना से संबंधित भवन का नाम M/s Ashirwad Engicon Pvt. Ltd., प्लॉट नं०-97,106,72,107,84,108, 74,81,89,88,78,87,85, 77,90,86,113,76,91,80,112,93,92,73,109,79,106,105 खाता नं०-95, 107,111, 106, 101, 102, 105,115,117,78,80, 81,83, 82, 88, 90, 95, 97, 100,87,98,67 थाना नं०-100, थाना-गोपालपुर, मौजा-भेलवाड़ा, जिला-पटना, अधिभोग आवासीय, उप श्रेणी आवासीय, भवन की ऊँचाई 44.95 (मीटर में), फर्श क्षेत्र 174303.31 वर्गमीटर, भवन (Tower 1, 2 & 3= B+S+14), (Tower 4, 5 & 6= B+S+13), (Tower 7 = B+S+11), (Tower 8 (LIG & EWS) = B+S+14), भवन के ब्लॉक की संख्या 8, प्रत्येक मंजिल का औसत अधिभोग भार 650, लिफ्ट की संख्या 7, फायर लिफ्ट की संख्या 1, रैम्प की संख्या 1, आपातकालीन शरण स्थल (रिफ्यूजी एरिया) की संख्या 1, फायर टावर की संख्या 1 है। राष्ट्रीय भवन संहिता के दिशा-निर्देश, स्थानीय भवन नियमावली एवं स्थानीय परिस्थिति के आधार पर निम्नलिखित सलाह/अनुशंसा के साथ भवन निर्माण योजना की स्वीकृति दी जाती है, जिसका अनुपालन संबंधित वास्तुविद/भवन निर्माणकर्ता/भू-स्वामी के द्वारा किया जाएगा।

भवन योजना पर प्रतिहस्ताक्षर के बाद आपके अनुमोदन हेतु अग्रसारित किया जाता है :-

(1) भवन निर्माणकर्ता द्वारा भवन के लिए खुली जगह (मीटर) (उत्तर 15.0 मी०, दक्षिण 8.0 मी०, पूर्व 8.0 मी०, पश्चिम 8.0 मी०) एवं पलायन के साधन (आंतरिक सीढ़ियों की संख्या 25, चौड़ाई 2.62 (मीटर)/बाह्य सीढ़ियों की संख्या 4, चौड़ाई 3.67 (मीटर) प्रस्तावित किया गया है।

(2) खुला स्थान एवं पहुँच-

(क) भवन के चारों तरफ तत्समय प्रवृत्त भवन उपविधि एवं अन्य तत्संबंधी अधिनियम/नियम/विनियमन/स्थानीय आवश्यकता के अनुसार खुला स्थान होगा एवं अग्निशमन दस्ते के पहुँच एवं घुमाने के लिए न्यूनतम 3.60 मीटर जगह (भवन श्रेणी एवं निर्माण के अनुसार परिवर्तनीय) छोड़ा जाना चाहिए ।

(ख) भवन का पहुँच पथ मजबूत एवं चौड़ी हो जो 20 मिट्रिक टन अग्निशामक वाहन का भार आसानी से सहन कर सके।

(ग) भवन के प्रवेश द्वार की चौड़ाई 4.5 मीटर एवं ऊँचाई 5 मीटर से कम नहीं होना चाहिए।

(3) बनावट :-

(क) प्रस्तावित भवन का पूरा निर्माण अनुमोदित योजना के अनुसार बिहार भवन उपविधि, 2014 समय-समय पर यथा संशोधित तथा स्थानीय नगर निकाय के भवन संबंधी नियमों को ध्यान में रखकर किया जाएगा।

(ख) भवन का फर्श क्षेत्र 750 वर्गमीटर से अधिक होने की स्थिति में अलग-अलग दिवारों से उचित रूप से छत तक बाँटा जाएगा, जिसमें कम से कम दो घंटे तक अग्नि प्रतिरोधक क्षमता होगा।

(ग) भवन की आंतरिक सजावट अग्नि फैलाव निरोधक सामग्री से बना हुआ आई0एस0 गुण स्तर का होगा।

(घ) भवन के केन्द्रीय कोर डक्ट का crown के पास वेन्टीलेशन का प्रावधान होगा। सभी उर्ध्व डक्ट का सीढ़ी पर्याप्त अग्नि निरोधक क्षमता के सामग्री से करने का व्यवस्था करना होगा।

(4) सीढ़ी :-

(क) भवन का सीढ़ी बंद प्रकार का होगा। पूरे भवन निर्माण कार्य ईट/आर.सी.सी. से न्यूनतम 04 घंटे के अग्नि प्रतिरोधक क्षमता का होगा।

(ख) भवन का सीढ़ी के उपरी भाग में स्थायी भेंट होगा जो सीढ़ी के क्रॉस सेक्शन एरिया का 05 प्रतिशत होगा। साथ ही सीढ़ी के क्रॉस सेक्शन क्षेत्र का 15 प्रतिशत क्षेत्र के बराबर प्रत्येक मंजिल के स्तर पर खुलने योग्य Sashes होगा। यह भवन के बाहरी दीवार पर प्रदान किया जाएगा।

(ग) भवन के सभी सीढ़ियों का निर्माण कमरे से अलग होगा एवं किसी भी कमरे में प्रवेश किये बिना हर मंजिल पर एक दूसरे से परगम्य होगा, जिसे संबंधित छत के लेवल तक बढ़ाया जाएगा। सीढ़ी वाली दीवाल की छत आस-पास की छत के क्षेत्र से 1 मीटर ऊपर होगी।

(घ) विभिन्न श्रेणी के भवनों में सीढ़ी की चौड़ाई तथा कोरिडोर एवं यात्रा दूरी संबंधित भवन नियमों के अनुसार होगा।

(ङ) दो सीढ़ी के मामले में एक सीढ़ी बाहरी दीवाल से होनी चाहिए।

(च) तलघर तक पहुँच के लिए दोनों सीढ़ी तलघर मंजिल तक नहीं जाना चाहिए। पहुँच के लिए एक अलग सीढ़ी होगा।

(5) अग्नि सुरक्षा प्रणाली :- राष्ट्रीय भवन संहिता, 2016 समय-समय पर यथा संशोधित के प्रावधानों के आलोक में निम्नलिखित अग्नि सुरक्षा उपायों के प्रावधान के साथ अनुमोदित भवन योजना अग्रसारित किया जाता है:-

(क) होज रील

(ख) वेट राईजर-सह-डाउन कमर सिस्टम (12 अदद)

(ग) यार्ड हाईड्रेंट सिस्टम

(घ) हस्तचालित विद्युत अग्नि एलार्म सिस्टम

(ङ) पूरे भवन में ऑटोमेटिक डिटेक्शन एण्ड अलार्म सिस्टम

(च) स्प्रिंकलर सिस्टम (आवश्यकतानुसार)

(छ) भूतल स्टैटिक टैंक 200000 लीटर क्षमता प्रति ब्लॉक

(ज) ओभर हेड वाटर टैंक 50000 लीटर क्षमता प्रति ब्लॉक

(झ) एक पम्प हाउस 2850 एल.पी.एम. इलेक्ट्रीक एवं डीजल, 180 एल.पी.एम. जॉकी पम्प, 450 एल.पी.एम. बूस्टर पम्प

(ञ) फायर एक्सटीग्यूसर

(6) संबंधित अधिनियम/नियम/विनियमन जैसे- बिहार भवन उपविधि, 2014, समय-समय पर यथा संशोधित राष्ट्रीय भवन संहिता, 2016, समय-समय पर यथा संशोधित बहुमंजिली भवन निर्माण विनियम, 1981, बिहार अग्निशमन सेवा अधिनियम, 2014, बिहार अग्निशमन सेवा नियमावली, 2021 में संबंधित अधिभोग के लिए वांछित अन्य शर्तों का पालन किया जाएगा। कुछ शर्तें निम्न प्रकार हैं :-

(क) लिफ्ट :-

- (i) भवन का लिफ्ट की दीवार न्यूनतम 02 घंटे का अग्नि निरोधक क्षमता का होगा।
 (ii) भवन का लिफ्ट उच्च गति "फायर लिफ्ट" पर डिजाइन की जाएगी और योजना में स्पष्ट रूप से चिन्हित होगा।

(iii) सामान्य विद्युत आपूर्ति की विफलता के मामले में, स्वचालित वैकल्पिक व्यवस्था होना चाहिए। अपार्टमेंट भवनों के लिए विद्युत आपूर्ति में परिवर्तन हेतु हस्ताचालित परिवर्तनीय स्वीच के माध्यम से यह व्यवस्था किया जा सकता है। वैकल्पिक रूप से लिफ्ट इस तरह से वायर्ड होगा कि बिजली की विफलता की स्थिति में भी यह जमीन स्तर तक आयेगा एवं दरवाजा आसानी से खुल सकेगा।

(iv) आग लगने की स्थिति में प्रति घंटा 30 बार हवा परिवर्तन करने हेतु स्मोक वेटिंग सिस्टम का समावेश सभी लिफ्ट सॉफ्ट में कर धुँआ निकासी हेतु व्यवस्था की जाएगी। यह इस प्रकार का डिजाइन किया जाएगा कि स्प्रिंकलर एवं फायर एलार्म क्रियाशील हो सके। सामान्य विद्युत आपूर्ति की विफलता के मामले में यह स्वचालित रूप से वैकल्पिक आपूर्ति के लिए कार्य करेगा।

(v) अग्नि नियंत्रण कक्ष के साथ लिफ्ट का संचार व्यवस्था बनाये रखने सहित अन्य सभी आवश्यकताएँ आई0 एस0 गुण स्तर के अनुरूप करना होगा, जिसमें भवन के लिफ्ट कार, अग्नि नियंत्रण कक्ष के साथ जुड़ी होनी चाहिए, जिससे संचार व्यवस्था बनी रहे।

(vi) राष्ट्रीय भवन संहिता, 2016 समय-समय पर यथा संशोधित से संबंधित प्रावधानों का पालन करते हुए फायर लिफ्ट होना चाहिए जैसे 1200 वर्गमीटर के फर्श क्षेत्र के लिए एक फायर लिफ्ट होना चाहिए।

(ख) भवन में सक्रिय अग्नि सुरक्षा प्रणाली जैसे प्रत्येक मंजिल पर लैण्डिंग भल्व के साथ डाउन कमर सिस्टम एवं होज रील, छत स्तर पर 900 एल0पी0एम0 पम्प के साथ होगा। आई0 एस0 2190/1992 तथा संबंधित विशिष्टियों का आई0एस0आई0 मार्कड अग्निशामन यंत्र, फायर चेक दरवाजा, हस्ताचालित कॉल अलार्म प्वाइन्ट, अग्नि सुरक्षा चमकीला संकेत एवं भवन निर्माण संहिता के अनुसार अन्य अग्नि निरोध उपाय किये जायेंगे।

(ग) तलघर में स्वचालित स्प्रिंकलर सिस्टम होना चाहिए एवं दो अलग-अलग निकास द्वार होना चाहिए।

(घ) भूतल जल स्टैटिक टैंक (20,000 लीटर से कम क्षमता का नहीं) स्वचालित रिफिलिंग की व्यवस्था के साथ हो, जहाँ अग्निशामक वाहन आसानी से पहुँच सके। ओवर हेड वाटर स्टैटिक टैंक (10,000 लीटर क्षमता से कम नहीं) अधिवास के पूर्व हो जाना चाहिए।

(ङ) भवन के प्रत्येक मंजिल पर विद्युत केबुल सील होनी चाहिए।

(च) भवन का कम्पार्टमेन्टेशन इस प्रकार होगा कि आग एवं धुँआ उसी क्षेत्र में सीमित रहेगा जहाँ अग्निकांड हुआ है तथा भवन के अन्य भागों में नहीं फैले।

(छ) भवन के अलगाव दीवार एवं फ्लोर में खुला स्थान - ऐसे सभी प्रकार के तथ्यों पर ध्यान देना होगा जो आग एवं धुँआ के फैलाव को इन खुला स्थानों में प्रवेश को सीमित कर सके और बनावट का फायर रेटिंग बरकरार रह सके। सभी दीवार में खुला स्थान न्यूनतम दो घंटे की फायर रेटिंग के अग्नि निरोधक दरवाजा से सुरक्षित रहेगा। मंजिलों में सभी खुला स्थान vertical enclosure से सुरक्षित रहेगा एवं ऐसे enclosure का दीवार न्यूनतम दो घंटे की फायर रेटिंग का होगा।

(ज) मंजिलों के प्रत्येक vertical openings यथोचित रूप से बंद एवं सुरक्षित रहेगा तथा निम्नलिखित व्यवस्थाएँ की जाएगी :-

(i) पलायन के रास्ता का प्रयोग करते वक्त अधिवासियों को मंजिल दर मंजिल खुले स्थान से आग एवं धुँआ के फैलाव को रोकने के लिए प्रर्याप्त सुरक्षा प्रदान करना होगा। यह सुनिश्चित करना होगा कि अधिवासियों के निकासी मार्ग में कम से कम 21 मिली मीटर का उपरी भाग खुला हो।

(ii) दो घंटे की फायर रेटिंग का अग्नि दरवाजा बाहर भागने/निकलने के रास्ते एवं लिफ्ट में प्रवेश के रास्ते तथा सीढ़ी पर एवं अन्य उपयुक्त स्थानों पर आग एवं धुँआ के फैलाव को रोकने के लिए दिया जाएगा।

(iii) निकासी मार्ग का सुरक्षित प्रयोग हेतु स्मोक वेन्टिंग सुविधा प्रदान किया जाएगा।

(iv) आंतरिक सजावट से जहरीला धुँआ के उत्पन्न होने से बचाने हेतु धुँआ निरोधी सामग्रियों का प्रयोग किया जाएगा ।

(v) भवन के निकासी मार्ग (सीढ़ी एवं कोरिडोर) का रौशनीकरण/सीढ़ियों का प्रेसराइजेशन/ तलघर का वेन्टीलेशन राष्ट्रीय भवन संहिता, 2016 समय-समय पर यथा संशोधित के अनुसार करना होगा ।

(vi) एयर कंडिशनिंग एवं वेन्टिलेशन सिस्टम को इस प्रकार अधिष्ठापित किया जाएगा, जिससे आग एवं धुँआ एक फ्लोर से दूसरे फ्लोर और भवन से बाहर नहीं फैल सके। एयर फिल्टर में आग लगने पर धुँआ को फैलने से बचाने के लिए स्मोक सेन्सिटिव डिवाइस भवन में होना चाहिए। प्रत्येक तल पर आग और धुँए के हजार्ड से बचाने के लिए प्रत्येक तल पर अलग-अलग एयर हैडलिंग यूनिट होना चाहिए। फायर डंपर्स को ए0सी0 सिस्टम में प्रदान किया जाएगा, ताकि आग की स्थिति में स्वचालित रूप से बंद हो सके और इस तरह अग्नि/धुँआ का फैलाव रोका जा सके ।

(vii) विद्युत अधिष्ठापन- विद्युत सुरक्षा भारतीय विद्युत नियमावली एवं संबंधित आई0एस0/संहिता के प्रावधान के आलोक में होगा। लाईसेंस विद्युत ठेकेदार के द्वारा विद्युत अधिष्ठापन किया जाएगा। मुख्य रूप से अलग नली में वायरिंग, अलग सर्किट, स्वचालित सर्किट ब्रेकर, मास्टर स्वीच, इन्स्पेक्शन पैनल दरवाजा, आपातकालीन/वैकल्पिक विद्युत आपूर्ति का आवधिक सत्यापन आदि पर ध्यान दिया जाएगा ।

(viii) भवन का अधिवास प्राप्त करने के बाद प्रत्येक वर्ष कम से कम दो बार नियमित रूप से फायर एक्जीट ड्रिल किया जाना चाहिए ।

(ix) अग्नि सुरक्षा अधिकारी-एन0बी0सी0 2016 और बिहार अग्निशमन सेवा अधिनियम, 2014 के अनुसार।

(x) भवन में अधिष्ठापित अग्निशमन उपकरणों आदि का ए0एम0सी0 योग्य फर्म या व्यक्ति को दिया जाना चाहिए।

(xi) स्थापित नियम के आलोक में भवन के सेट बैक का चेकिंग वास्तुविद/पारित करने वाले द्वारा किया जाएगा।

(xii) यह स्पष्ट किया जाता है कि उपरोक्त सिफारिशों का पालन नहीं करने की स्थिति में भविष्य में होने वाली किसी भी कानूनी विवाद के मामले में, जिम्मेवारी डेवलपर्स/वास्तुविद/जमीन मालिक पर होगी एवं किसी भी सरकारी प्राधिकार (जैसे कि राज्य अग्निशमन पदाधिकारी, बिहार, पटना) की नहीं होगी ।

(xiii) इसके द्वारा यह भी स्पष्ट किया जाता है कि इस कार्यालय (अर्थात् निदेशक-सह-राज्य अग्निशमन पदाधिकारी, बिहार, पटना/प्राधिकृत पदाधिकारी) का कार्यालय उस भूमि के किसी भी कानूनी विवाद के लिए जिम्मेवार नहीं है, जिसपर प्रस्तावित भवन का निर्माण होगा।

(7) अनिवार्यतः अन्डरटेकिंग्स के सभी प्रावधानों का पालन करना होगा ।

(8) इसे औपबंधिक अनापत्ति प्रमाण पत्र माना जाएगा। उपरोक्त सभी अग्नि एवं जीवन सुरक्षा अनुशंसाओं के अनुपालन के बाद आवश्यक निरीक्षण एवं अधिष्ठापन के जाँच हेतु राज्य अग्निशमन कार्यालय को सूचित करना होगा। सभी बिन्दुओं की जाँच से संतुष्टि के बाद अंतिम अग्नि निवारण एवं अग्नि सुरक्षा अनापत्ति प्रमाण पत्र निर्गत किया जाएगा ।

(9) अनुमोदित भवन योजना में बिना पूर्व स्वीकृति के किसी भी प्रकार का विचलन या परिवर्तन किये जाने की स्थिति में इस औपबंधिक अनापत्ति प्रमाण पत्र को रद्द कर दिया जाएगा।

(10) हस्ताक्षर एवं मुहर के साथ नक्शा वापस किया जाता है।

अनुलग्नक:-

1) मे0 वास्तुविद, निशांत शेखर

2) अध्यक्ष, नगर निगम, पटना।

निदेशक-सह-राज्य अग्निशमन पदाधिकारी,
बिहार, पटना ।

Annexure-XIV
Lab Report



ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063



ISO 45001

TEST REPORT

TEST REPORT NO : ETS1524-1/12/2023

DATE OF REPORT : 31.12.2023

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Date of Sampling : 10.12.2023
Analysis Start Date : 13.12.2023
Analysis End Date : 16.12.2023
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-1 NEAR PROJECT SITE (UNDER 500 METER)
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 LI.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.61	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	390.0	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity (CaCO ₃)	mg/L	119.0	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO ₃)	mg/L	158.8	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	92.0	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	60.0	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO ₄)	mg/L	46.6	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO ₃)	mg/L	2.10	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.25	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.17	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D	0.05	No Relaxation	APHA-4500 (C)
19.	Copper (Cu)	mg/L	0.08	0.05	1.5	APHA-3111 (B)
20.	Magnesium (Mg)	mg/L	16.7	30	100	IS:3025 (Pt-45)
21.	Manganese (Mn)	mg/L	<0.1	0.1	0.3	APHA-3111 (B)
22.	Zinc (Zn)	mg/L	0.72	5	15	APHA-3111 (B)
23.	Cadmium (Cd)	mg/L	<0.001	0.003	No Relaxation	APHA-3111 (B)
24.	Lead (Pb)	mg/L	<0.01	0.01	No Relaxation	APHA-3111 (B)
25.	Mercury (Hg)	mg/L	<0.001	0.001	No Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No Relaxation	APHA-3111 (B)
27.	Arsenic (As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C ₆ H ₅ OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	543.0	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
33.	Temperature	°C	18.3	Not Specified	Not Specified	IS:3025 (Pt-9)
34.	Sodium (Na)	mg/L	37.0	Not Specified	Not Specified	APHA-3500 (Na)
35.	Fecal Coliform	MPN/100ml	Absent	Shall Not Be Detectable		APHA-9221

****End of Test Report****

Note:-

1. Test Report and ETS LAB HOLOGRAM are not issued by our laboratory.

2. The results indicated only refer to the tested samples and listed applicable parameters.

3. No complaint will be entertained if received after 7 days of issue of test report.

4. Our liability is limited to invoice value only.

5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.

6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY



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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

TEST REPORT

TEST REPORT NO : ETS/1524-2/12/2023

DATE OF REPORT : 31.12.2023

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Date of Sampling : 10.12.2023
Analysis Start Date : 13.12.2023
Analysis End Date : 16.12.2023
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-2 MY CHHOTA SCHOOL BHOGIPUR
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.52	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	482.0	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity (CaCO ₃)	mg/L	120.0	200	600	IS:3025 (Pt-23)
8.	Total Hardness(CaCO ₃)	mg/L	177.8	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	81.0	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	69.0	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO ₄)	mg/L	41.6	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO ₃)	mg/L	0.73	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.25	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.17	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	0.08	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	24.5	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.72	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C ₆ H ₅ OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	686.0	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
33.	Temperature	°C	18.5	Not Specified	Not Specified	IS:3025 (Pt-9)
34.	Sodium (Na)	mg/L	51.5	Not Specified	Not Specified	APHA-3500 (Na)
35.	Fecal Coliform	MPN/100ml	Absent	Shall Not Be Detectable		APHA-9221

****End of Test Report****

Note:-

1. Test Report and ETS-LAB HOLOGRAM are not issued by our laboratory.

2. The results indicated only refer to the tested samples and listed applicable parameters.

3. No complaint will be entertained if received after 7 days of issue of test report.

4. Our liability is limited to invoice value only.

5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.

6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.



For ENVIRO-TECH SERVICES

MO HUMRA
Quality Manager
AUTHORIZED SIGNATORY



ENVIRO-TECH SERVICES

An Analytical Laboratory



(A GOVERNMENT APPROVED LAB)

Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

TEST REPORT

TEST REPORT NO : ETS/1524-4/12/2023

DATE OF REPORT : 31.12.2023

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Date of Sampling : 12.12.2023
Analysis Start Date : 15.12.2023
Analysis End Date : 18.12.2023
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-4 HANUMAN MANDIR NEAR NATHUPUR
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.61	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	380.0	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity (CaCO ₃)	mg/L	115.6	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO ₃)	mg/L	163.8	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	94.0	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	51.0	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO ₄)	mg/L	34.6	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO ₃)	mg/L	0.78	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.25	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.1	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D	0.05	No Relaxation	APHA-4500 (C)
19.	Copper (Cu)	mg/L	0.08	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	14.2	30	100	IS:3025 (Pt-45)
21.	Manganese (Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc (Zn)	mg/L	0.78	5	15	APHA-3111 (B)
23.	Cadmium (Cd)	mg/L	<0.001	0.003	No Relaxation	APHA-3111 (B)
24.	Lead (Pb)	mg/L	<0.01	0.01	No Relaxation	APHA-3111 (B)
25.	Mercury (Hg)	mg/L	<0.001	0.001	No Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No Relaxation	APHA-3111 (B)
27.	Arsenic (As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C ₆ H ₅ OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	563.0	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
33.	Temperature	°C	19.3	Not Specified	Not Specified	IS:3025 (Pt-9)
34.	Sodium (Na)	mg/L	35.8	Not Specified	Not Specified	APHA-3500 (Na)
35.	Fecal Coliform	MPN/100ml	Absent	Shall Not Be Detectable		APHA-9221

****End of Test Report****



Notes: 1. Test Report and ETS LAB HOLOGRAM are not issued by our laboratory.
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For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY



TEST REPORT

TEST REPORT NO : ETS/1524-5/12/2023

DATE OF REPORT : 31.12.2023

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Date of Sampling : 12.12.2023
Analysis Start Date : 15.12.2023
Analysis End Date : 18.12.2023
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-5 SHIV MANDIR KHAIRATALI
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.61	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	522.0	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity (CaCO ₃)	mg/L	134.0	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO ₃)	mg/L	185.8	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	82.0	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	57.0	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO ₄)	mg/L	32.6	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO ₃)	mg/L	1.73	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.25	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.18	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper (Cu)	mg/L	0.09	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	23.2	30	100	IS:3025 (Pt-45)
21.	Manganese (Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc (Zn)	mg/L	0.73	5	15	APHA-3111 (B)
23.	Cadmium (Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead (Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury (Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic (As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C ₆ H ₅ OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	740.0	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
33.	Temperature	°C	16.3	Not Specified	Not Specified	IS:3025 (Pt-9)
34.	Sodium (Na)	mg/L	32.5	Not Specified	Not Specified	APHA-3500 (Na)
35.	Fecal Coliform	MPN/100ml	Absent	Shall Not Be Detectable		APHA-9221

****End of Test Report****

Notes:

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For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

Signature
K. HUMRAJ
Quality Manager



ENVIRO-TECH SERVICES

An Analytical Laboratory



ISO 45001

(A GOVERNMENT APPROVED LAB)

Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

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TEST REPORT

TEST REPORT NO : ETS/1524-6/12/2023

DATE OF REPORT : 31.12.2023

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Date of Sampling : 15.12.2023
Analysis Start Date : 18.12.2023
Analysis End Date : 21.12.2023
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-6 NEAR BABADHAM
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.74	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	415.0	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity (CaCO ₃)	mg/L	148.0	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO ₃)	mg/L	190.5	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	90.0	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	67.0	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO ₄)	mg/L	40.5	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO ₃)	mg/L	0.77	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.28	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.21	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D	0.05	No Relaxation	APHA-4500 (C)
19.	Copper (Cu)	mg/L	0.06	0.05	1.5	APHA-3111 (B)
20.	Magnesium (Mg)	mg/L	16.4	30	100	IS:3025 (Pt-45)
21.	Manganese (Mn)	mg/L	<0.1	0.1	0.3	APHA-3111 (B)
22.	Zinc (Zn)	mg/L	0.72	5	15	APHA-3111 (B)
23.	Cadmium (Cd)	mg/L	<0.001	0.003	No Relaxation	APHA-3111 (B)
24.	Lead (Pb)	mg/L	<0.01	0.01	No Relaxation	APHA-3111 (B)
25.	Mercury (Hg)	mg/L	<0.001	0.001	No Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No Relaxation	APHA-3111 (B)
27.	Arsenic (As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C ₆ H ₅ OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	623.0	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
33.	Temperature	°C	17.3	Not Specified	Not Specified	IS:3025 (Pt-9)
34.	Sodium (Na)	mg/L	42.4	Not Specified	Not Specified	APHA-3500 (Na)
35.	Fecal Coliform	MPN/100ml	Absent	Shall Not Be Detectable		APHA-9221

****End of Test Report****

Note:-

1. Test results and ETS LAB HOLOGRAM are not issued by our laboratory.

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For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

MD HUMRAJ

Quality Manager



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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063



ISO 45001



TEST REPORT

TEST REPORT NO : ETS/1524-7/12/2023

DATE OF REPORT : 31.12.2023

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Date of Sampling : 15.12.2023
Analysis Start Date : 18.12.2023
Analysis End Date : 21.12.2023
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-7 ROYAL PUBLIC SCHOOL NEAR KESHAV NAGAR
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.20	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	473.0	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity (CaCO ₃)	mg/L	165.4	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO ₃)	mg/L	132.4	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	95.0	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	58.0	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO ₄)	mg/L	37.4	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO ₃)	mg/L	0.74	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.21	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.10	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper (Cu)	mg/L	0.07	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	20.3	30	100	IS:3025 (Pt-45)
21.	Manganese (Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc (Zn)	mg/L	0.83	5	15	APHA-3111 (B)
23.	Cadmium (Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead (Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury (Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic (As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C ₆ H ₅ OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	643.0	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
33.	Temperature	°C	18.3	Not Specified	Not Specified	IS:3025 (Pt-9)
34.	Sodium (Na)	mg/L	47.1	Not Specified	Not Specified	APHA-3500 (Na)
35.	Fecal Coliform	MPN/100ml	Absent	Shall Not Be Detectable		APHA-9221

****End of Test Report****

Note:-

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For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY



ENVIRO-TECH SERVICES

An Analytical Laboratory

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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063



TEST REPORT

TEST REPORT NO : ETS/1524-8/12/2023

DATE OF REPORT : 31.12.2023

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Date of Sampling : 15.12.2023
Analysis Start Date : 18.12.2023
Analysis End Date : 21.12.2023
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-8 SOHGI GOVERNMENT SCHOOL NEAR SOHGI
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.84	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	410.0	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity (CaCO ₃)	mg/L	127.0	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO ₃)	mg/L	147.3	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	80.0	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	61.0	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO ₄)	mg/L	35.2	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO ₃)	mg/L	0.68	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.32	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.21	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D	0.05	No Relaxation	APHA-4500 (C)
19.	Copper (Cu)	mg/L	0.06	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	18.6	30	100	IS:3025 (Pt-45)
21.	Manganese (Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc (Zn)	mg/L	0.77	5	15	APHA-3111 (B)
23.	Cadmium (Cd)	mg/L	<0.001	0.003	No Relaxation	APHA-3111 (B)
24.	Lead (Pb)	mg/L	<0.01	0.01	No Relaxation	APHA-3111 (B)
25.	Mercury (Hg)	mg/L	<0.001	0.001	No Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No Relaxation	APHA-3111 (B)
27.	Arsenic (As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C ₆ H ₅ OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	690.0	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
33.	Temperature	°C	18.3	Not Specified	Not Specified	IS:3025 (Pt-9)
34.	Sodium (Na)	mg/L	50.1	Not Specified	Not Specified	APHA-3500 (Na)
35.	Fecal Coliform	MPN/100ml	Absent	Shall Not Be Detectable		APHA-9221

****End of Test Report****

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AUTHORIZED SIGNATORY



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TEST REPORT

TEST REPORT NO : ETS/1524-9/12/2023

DATE OF REPORT : 31.12.2023

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Date of Sampling : 12.12.2023
Analysis Start Date : 15.12.2023
Analysis End Date : 18.12.2023
Sampling Done By : ETS STAFF
Sampling Description : SURFACE WATER
Sampling Location : SW-1 PUNPUN RIVER NEAR FATEHPUR

Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	8.1	IS:3025 (Pt-11)
4.	Turbidity	NTU	13.0	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	618.9	IS:3025 (Pt-16)
6.	Total Alkalinity (CaCO ₃)	mg/L	206.3	IS:3025 (Pt-23)
7.	Total Hardness(CaCO ₃)	mg/L	262.7	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	118.5	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	68.2	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO ₄)	mg/L	72.6	IS:3025 (Pt-24)
12.	Nitrate (NO ₃)	mg/L	3.12	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.37	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.26	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper(Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	26.8	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.55	APHA-3111 (B)
22.	Cadmium(Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead(Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury(Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic(As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	832.0	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	22.5	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	3.9	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	4.8	APHA-5210
34.	E. Coli	MPN/100ml	190	IS:1622-1981
35.	Total Coliform	MPN/100ml	410	IS:1622-1981

****End of Test Report****

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For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

MD HUMRA
Quality Manager

Format no ETS/LAB/TR-05 Issue No 04 of 01/06/2019 Rev No 03 dt: 01/06/2019

TEST REPORT

TEST REPORT NO: ETS/1524-10/12/2023

DATE OF REPORT: 31.12.2023

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Date of Sampling : 10.12.2023

Analysis Start Date : 13.12.2023

Analysis End Date : 16.12.2023

Sampling Done By : ETS STAFF

Sampling Description : SURFACE WATER

Sampling Location : SW-2 NEAR GANGA RIVER DIGHA DIARA

Sampling Method : ETS/STP/WATER-01

Sampling Quantity : 2.0 +0.5 Lt.

Packing Condition : SEALED

Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.56	IS:3025 (Pt-11)
4.	Turbidity	NTU	11.0	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	363.9	IS:3025 (Pt-16)
6.	Total Alkalinity (CaCO ₃)	mg/L	167.3	IS:3025 (Pt-23)
7.	Total Hardness(CaCO ₃)	mg/L	131.7	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	60.5	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	21.2	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO ₄)	mg/L	35.6	IS:3025 (Pt-24)
12.	Nitrate (NO ₃)	mg/L	2.32	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.30	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.15	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper(Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	11.8	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.54	APHA-3111 (B)
22.	Cadmium(Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead(Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury(Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic(As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	537.0	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	15.2	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	6.4	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	7.2	APHA-5210
34.	E. Coli	MPN/100ml	450	IS:1622-1981
35.	Total Coliform	MPN/100ml	810	IS:1622-1981

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For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

MO HUMRAJ
Quality Manager

ENVIRO-TECH
SERVICES
CHECKED BY
SHRADDHA GUPTA

Format no ETS /LAB/TR-09 Issue No 04 dt 01/06/2019 Rev No 03 dt 01/06/2019



ENVIRO-TECH SERVICES

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TEST REPORT

TEST REPORT NO : ETS/1524-11/12/2023

DATE OF REPORT : 31.12.2023

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Date of Sampling : 12.12.2023

Analysis Start Date : 15.12.2023

Analysis End Date : 18.12.2023

Sample ID No : 1524-11

Sampling Done By : ETS STAFF

Sampling & Testing Method : ETS/LAB/SOIL-01

Sampling Location : SQ-1 PROJECT SITE

Sampling Quantity : 2 kg.

Packing Condition : SEALED

Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	54.4	IS:2720 (Pt-4)
3.	Silt	%	32.2	IS:2720 (Pt-4)
4.	Clay	%	13.4	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.64	IS:2720 (Pt-26)
6.	Cation Exchange Capacity(CEC)	meq/100g	24.0	IS:2720 (Pt-24)
7.	Electrical Conductivity (1:2)	µmho/cm	325.0	IS:14767
8.	Water Holding Capacity(WHC)	%	36.0	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	113.0	APHA-3125B
10.	Calcium (Ca)	mg/kg	1123.5	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	453.0	ETS/STP/SOIL-08
12.	Bulk Density	g/cm ³	1.45	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	172.9	APHA, Pt 4500:(N)
14.	Phosphorus (PO ₄)	mg/kg	43.3	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	279.5	APHA-3125B
16.	Organic Matter	%	2.8	IS : 2720 (P-22)
17.	Organic Carbon	%	1.8	BS 1377 -3)
18.	Sulphate as (SO ₄)	mg/kg	2.3	IS:3025(P-24)
19.	Porosity	%	29.0	IS 13030
20.	Manganese, (Mn)	mg/kg	3.7	ETS/STP/SOIL-18
21.	Nickel, (Ni)	mg/kg	1.6	ETS/STP/SOIL-18
22.	Zinc, (Zn)	mg/kg	1.1	ETS/STP/SOIL-18
23.	Lead, (Pb)	mg/kg	2.3	ETS/STP/SOIL-18

****End of Test Report****



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TEST REPORT

TEST REPORT NO : ETS/1524-12/12/2023

DATE OF REPORT : 31.12.2023

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Date of Sampling : 12.12.2023
Analysis Start Date : 15.12.2023
Analysis End Date : 18.12.2023
Sample ID No : 1524-12
Sampling Done By : ETS STAFF
Sampling & Testing Method : ETS/LAB/SOIL-01
Sampling Location : SQ-2 MY CHHOTA SCHOOL BHOGIPUR
Sampling Quantity : 2 kg.
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	63.4	IS:2720 (Pt-4)
3.	Silt	%	20.1	IS:2720 (Pt-4)
4.	Clay	%	16.5	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.33	IS:2720 (Pt-26)
6.	Cation Exchange Capacity (CEC)	meq/100g	26.0	IS:2720 (Pt-24)
7.	Electrical Conductivity (1:2)	µmho/cm	350.0	IS:14767
8.	Water Holding Capacity (WHC)	%	35.5	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	124.4	APHA-3125B
10.	Calcium (Ca)	mg/kg	1050.0	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	512.0	ETS/STP/SOIL-08
12.	Bulk Density	g/cm ³	1.34	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	162.8	APHA, Pt 4500:(N)
14.	Phosphorus (PO ₄)	mg/kg	57.9	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	246.7	APHA-3125B
16.	Organic Matter	%	3.0	IS: 2720 (P-22)
17.	Organic Carbon	%	1.5	BS 1377 -3)
18.	Sulphate as (SO ₄)	mg/kg	2.0	IS:3025(P-24)
19.	Porosity	%	27.4	IS 13030
20.	Manganese, (Mn)	mg/kg	3.8	ETS/STP/SOIL-18
21.	Nickel, (Ni)	mg/kg	1.5	ETS/STP/SOIL-18
22.	Zinc, (Zn)	mg/kg	1.1	ETS/STP/SOIL-18
23.	Lead, (Pb)	mg/kg	1.6	ETS/STP/SOIL-18

****End of Test Report****



CHECKED BY
SHRADHA GUPTA

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

MD HUMPA
Quality Manager

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TEST REPORT

DATE OF REPORT :31.12.2023

TEST REPORT NO: ETS/1524-13/12/2023

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Date of Sampling : 12.12.2023

Analysis Start Date : 15.12.2023

Analysis End Date : 18.12.2023

Sample ID No : 1524-13

Sampling Done By : ETS STAFF

Sampling & Testing Method : ETS/LAB/SOIL-01

Sampling Location : SQ-3 NEAR TOLAPAR

Sampling Quantity : 2 kg.

Packing Condition : SEALED

Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	58.3	IS:2720 (Pt-4)
3.	Silt	%	23.3	IS:2720 (Pt-4)
4.	Clay	%	18.4	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.33	IS:2720 (Pt-26)
6.	Cation Exchange Capacity(CEC)	meq/100g	21.0	IS:2720 (Pt-24)
7.	Electrical Conductivity (1:2)	µmho/cm	355.0	IS:14767
8.	Water Holding Capacity(WHC)	%	21.0	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	80.5	APHA-3125B
10.	Calcium (Ca)	mg/kg	1168.5	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	326.0	ETS/STP/SOIL-08
12.	Bulk Density	g/cm ³	1.35	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	176.8	APHA, Pt 4500:(N)
14.	Phosphorus (PO ₄)	mg/kg	51.4	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	224.5	APHA-3125B
16.	Organic Matter	%	2.8	IS: 2720 (P-22)
17.	Organic Carbon	%	1.4	BS 1377 -3)
18.	Sulphate as (SO ₄)	mg/kg	2.6	IS:3025(P-24)
19.	Porosity	%	19.9	IS 13030
20.	Manganese,(Mn)	mg/kg	3.2	ETS/STP/SOIL-18
21.	Nickel,(Ni)	mg/kg	0.98	ETS/STP/SOIL-18
22.	Zinc,(Zn)	mg/kg	1.0	ETS/STP/SOIL-18
23.	Lead,(Pb)	mg/kg	1.84	ETS/STP/SOIL-18

****End of Test Report****



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For ENVIRO-TECH SERVICES
MD. FUMRAJ
Quality Manager

AUTHORIZED SIGNATORY



ENVIRO-TECH SERVICES

An Analytical Laboratory



(A GOVERNMENT APPROVED LAB)

Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063



TEST REPORT

TEST REPORT NO: ETS/1524-14/12/2023

DATE OF REPORT :31.12.2023

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Date of Sampling : 15.12.2023
Analysis Start Date : 17.12.2023
Analysis End Date : 20.12.2023
Sample ID No : 1524-14
Sampling Done By : ETS STAFF
Sampling & Testing Method : ETS/LAB/SOIL-01
Sampling Location : SQ-4 NEAR DARIYAPUR
Sampling Quantity : 2.0 kg.
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	60.1	IS:2720 (Pt-4)
3.	Silt	%	28.2	IS:2720 (Pt-4)
4.	Clay	%	11.7	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.23	IS:2720 (Pt-26)
6.	Cation Exchange Capacity (CEC)	meq/100g	24.0	IS:2720 (Pt-24)
7.	Electrical Conductivity (1:2)	µmho/cm	315.0	IS:14767
8.	Water Holding Capacity (WHC)	%	30.4	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	123.0	APHA-3125B
10.	Calcium (Ca)	mg/kg	1216.4	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	322.3	ETS/STP/SOIL-08
12.	Bulk Density	g/cm ³	1.25	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	190.7	APHA, Pt 4500:(N)
14.	Phosphorus (PO ₄)	mg/kg	52.4	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	328.6	APHA-3125B
16.	Organic Matter	%	2.4	IS: 2720 (P-22)
17.	Organic Carbon	%	1.6	BS 1377 -3)
18.	Sulphate as (SO ₄)	mg/kg	1.25	IS:3025(P-24)
19.	Porosity	%	22.9	IS 13030
20.	Manganese, (Mn)	mg/kg	4.5	ETS/STP/SOIL-18
21.	Nickel, (Ni)	mg/kg	1.5	ETS/STP/SOIL-18
22.	Zinc, (Zn)	mg/kg	1.3	ETS/STP/SOIL-18
23.	Lead, (Pb)	mg/kg	1.7	ETS/STP/SOIL-18

****End of Test Report****



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For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

SHRADHA GUPTA
Quality Manager



ENVIRO-TECH SERVICES

An Analytical Laboratory



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TEST REPORT

TEST REPORT NO: ETS/1524-15/12/2023

DATE OF REPORT :31.12.2023

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Date of Sampling : 15.12.2023
Analysis Start Date : 17.12.2023
Analysis End Date : 20.12.2023
Sample ID No : 1524-15
Sampling Done By : ETS STAFF
Sampling & Testing Method : ETS/LAB/SOIL-01
Sampling Location : SQ-5 NATHUPUR
Sampling Quantity : 2.0 kg.
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	58.3	IS:2720 (Pt-4)
3.	Silt	%	28.1	IS:2720 (Pt-4)
4.	Clay	%	13.6	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.42	IS:2720 (Pt-26)
6.	Cation Exchange Capacity(CEC)	meq/100g	25.5	IS:2720 (Pt-24)
7.	Electrical Conductivity (1:2)	µmho/cm	346.0	IS:14767
8.	Water Holding Capacity(WHC)	%	29.0	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	132.0	APHA-3125B
10.	Calcium (Ca)	mg/kg	1063.5	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	463.3	ETS/STP/SOIL-08
12.	Bulk Density	g/cm ³	1.53	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	182.7	APHA, Pt 4500:(N)
14.	Phosphorus (PO ₄)	mg/kg	46.5	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	221.8	APHA-3125B
16.	Organic Matter	%	2.7	IS : 2720 (P-22)
17.	Organic Carbon	%	2.1	BS 1377 -3)
18.	Sulphate as (SO ₄)	mg/kg	1.65	IS:3025(P-24)
19.	Porosity	%	18.8	IS 13030
20.	Manganese,(Mn)	mg/kg	3.8	ETS/STP/SOIL-18
21.	Nickel,(Ni)	mg/kg	0.95	ETS/STP/SOIL-18
22.	Zinc,(Zn)	mg/kg	1.5	ETS/STP/SOIL-18
23.	Lead,(Pb)	mg/kg	1.2	ETS/STP/SOIL-18

End of Test Report



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For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY



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ISO 45001



TEST REPORT

TEST REPORT NO : ETS/1524-16/12/2023

DATE OF REPORT : 31.12.2023

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Date of Sampling : 15.12.2023

Analysis Start Date : 17.12.2023

Analysis End Date : 20.12.2023

Sample ID No : 1524-16

Sampling Done By : ETS STAFF

Sampling & Testing Method : ETS/LAB/SOIL-01

Sampling Location : SQ-6 NEAR SAIDANICHAK

Sampling Quantity : 2 kg.

Packing Condition : SEALED

Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	60.2	IS:2720 (Pt-4)
3.	Silt	%	24.3	IS:2720 (Pt-4)
4.	Clay	%	15.5	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.50	IS:2720 (Pt-26)
6.	Cation Exchange Capacity(CEC)	meq/100g	26.0	IS:2720 (Pt-24)
7.	Electrical Conductivity (1:2)	µmho/cm	317.0	IS:14767
8.	Water Holding Capacity(WHC)	%	22.0	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	136.0	APHA-3125B
10.	Calcium (Ca)	mg/kg	1035.5	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	412.0	ETS/STP/SOIL-08
12.	Bulk Density	g/cm ³	1.42	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	148.3	APHA, Pt 4500:(N)
14.	Phosphorus (PO ₄)	mg/kg	43.5	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	191.5	APHA-3125B
16.	Organic Matter	%	2.7	IS: 2720 (P-22)
17.	Organic Carbon	%	1.6	BS 1377 -3)
18.	Sulphate as (SO ₄)	mg/kg	2.5	IS:3025(P-24)
19.	Porosity	%	31.0	IS 13030
20.	Manganese,(Mn)	mg/kg	3.3	ETS/STP/SOIL-18
21.	Nickel,(Ni)	mg/kg	1.6	ETS/STP/SOIL-18
22.	Zinc,(Zn)	mg/kg	1.8	ETS/STP/SOIL-18
23.	Lead,(Pb)	mg/kg	2.5	ETS/STP/SOIL-18

****End of Test Report****



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For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

MD HUMRAH
Manager



TEST REPORT

TEST REPORT NO : ETS/1524-17/12/2023

DATE OF REPORT : 31.12.2023

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Date of Sampling : 15.12.2023

Analysis Start Date : 17.12.2023

Analysis End Date : 20.12.2023

Sample ID No : 1524-17

Sampling Done By : ETS STAFF

Sampling & Testing Method : ETS/LAB/SOIL-01

Sampling Location : SQ-7 NEAR KESHAV NAGAR

Sampling Quantity : 2 kg.

Packing Condition : SEALED

Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	58.6	IS:2720 (Pt-4)
3.	Silt	%	20.2	IS:2720 (Pt-4)
4.	Clay	%	21.2	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.52	IS:2720 (Pt-26)
6.	Cation Exchange Capacity(CEC)	meq/100g	23.0	IS:2720 (Pt-24)
7.	Electrical Conductivity (1:2)	µmho/cm	336.0	IS:14767
8.	Water Holding Capacity(WHC)	%	29.0	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	129.0	APHA-3125B
10.	Calcium (Ca)	mg/kg	1032.5	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	424.0	ETS/STP/SOIL-08
12.	Bulk Density	g/cm ³	1.48	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	165.2	APHA, Pt 4500:(N)
14.	Phosphorus (PO ₄)	mg/kg	56.0	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	188.4	APHA-3125B
16.	Organic Matter	%	2.7	IS : 2720 (P-22)
17.	Organic Carbon	%	1.9	BS 1377 -3)
18.	Sulphate as (SO ₄)	mg/kg	2.5	IS:3025(P-24)
19.	Porosity	%	20.0	IS 13030
20.	Manganese,(Mn)	mg/kg	3.6	ETS/STP/SOIL-18
21.	Nickel,(Ni)	mg/kg	0.88	ETS/STP/SOIL-18
22.	Zinc,(Zn)	mg/kg	1.6	ETS/STP/SOIL-18
23.	Lead,(Pb)	mg/kg	1.7	ETS/STP/SOIL-18

****End of Test Report****



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For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

MD HUMRAJ
Quality Manager



ENVIRO-TECH SERVICES

An Analytical Laboratory



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TEST REPORT

TEST REPORT NO : ETS/1524-18/12/2023

DATE OF REPORT : 31.12.2023

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Date of Sampling : 15.12.2023

Analysis Start Date : 17.12.2023

Analysis End Date : 20.12.2023

Sample ID No : 1524-18

Sampling Done By : ETS STAFF

Sampling & Testing Method : ETS/LAB/SOIL-01

Sampling Location : SQ-8 NEAR CHAINPURA

Sampling Quantity : 2 kg.

Packing Condition : SEALED

Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	65.4	IS:2720 (Pt-4)
3.	Silt	%	26.2	IS:2720 (Pt-4)
4.	Clay	%	18.4	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.47	IS:2720 (Pt-26)
6.	Cation Exchange Capacity(CEC)	meq/100g	26.0	IS:2720 (Pt-24)
7.	Electrical Conductivity (1:2)	µmho/cm	329.0	IS:14767
8.	Water Holding Capacity(WHC)	%	31.0	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	159.0	APHA-3125B
10.	Calcium (Ca)	mg/kg	967.5	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	439.0	ETS/STP/SOIL-08
12.	Bulk Density	g/cm ³	1.82	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	166.4	APHA, Pt 4500:(N)
14.	Phosphorus (PO ₄)	mg/kg	59.4	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	197.9	APHA-3125B
16.	Organic Matter	%	2.2	IS : 2720 (P-22)
17.	Organic Carbon	%	1.9	BS 1377 -3)
18.	Sulphate as (SO ₄)	mg/kg	2.4	IS:3025(P-24)
19.	Porosity	%	16.0	IS 13030
20.	Manganese, (Mn)	mg/kg	3.1	ETS/STP/SOIL-18
21.	Nickel, (Ni)	mg/kg	1.0	ETS/STP/SOIL-18
22.	Zinc, (Zn)	mg/kg	1.4	ETS/STP/SOIL-18
23.	Lead, (Pb)	mg/kg	1.8	ETS/STP/SOIL-18

****End of Test Report****



CHECKED BY
SHRADHA GUPTA

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For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY



TEST REPORT

TEST REPORT NO : ETS/1524-19/12/2023

DATE OF REPORT : 31.12.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Analysis Start Date : 05.10.2023
Analysis End Date : 24.12.2023
Sampling Done By : ETS STAFF
Sampling Location : AAQ-1 PROJECT SITE
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	01.10.2023	ETS/DI-01	158.8	78.1	13.8	22.3	2.18
2	04.10.2023	ETS/DI-02	107.8	65.6	12.8	24.8	2.44
3	08.10.2023	ETS/DI-03	92.8	44.6	11.9	26.0	6.10
4	11.10.2023	ETS/DI-04	182.2	86.4	12.7	24.2	2.49
5	15.10.2023	ETS/DI-05	195.8	97.1	14.1	26.7	2.70
6	18.10.2023	ETS/DI-06	165.0	99.7	14.6	26.1	2.86
7	22.10.2023	ETS/DI-07	151.3	89.0	13.1	25.7	3.36
8	25.10.2023	ETS/DI-08	135.4	62.3	11.3	24.0	3.16
9	29.10.2023	ETS/DI-09	220.8	110.4	11.2	22.6	2.63
10	01.11.2023	ETS/DI-10	226.5	114.3	14.9	26.7	3.44
11	04.11.2023	ETS/DI-11	207.2	102.9	15.6	26.7	3.67
12	08.11.2023	ETS/DI-12	239.5	122.0	16.8	26.1	3.81
13	11.11.2023	ETS/DI-13	230.0	119.9	14.5	27.1	2.60
14	15.11.2023	ETS/DI-14	248.2	124.6	15.0	28.3	2.49
15	18.11.2023	ETS/DI-15	205.7	104.1	12.9	30.4	3.02
16	22.11.2023	ETS/DI-16	217.8	112.2	11.6	29.0	6.72
17	25.11.2023	ETS/DI-17	227.0	118.1	14.5	31.5	4.48
18	29.11.2023	ETS/DI-18	218.2	109.2	14.0	27.0	7.20
19	02.12.2023	ETS/DI-19	240.5	112.3	11.4	27.9	6.80
20	05.12.2023	ETS/DI-20	216.0	107.9	12.3	27.4	3.30
21	09.12.2023	ETS/DI-21	229.5	113.4	16.0	25.7	6.19
22	12.12.2023	ETS/DI-22	192.0	99.7	15.0	27.9	2.74
23	16.12.2023	ETS/DI-23	222.3	110.6	15.6	26.4	5.30
24	19.12.2023	ETS/DI-24	197.9	108.4	13.2	24.1	4.98
Minimum			92.8	44.6	11.2	22.3	2.18
Maximum			248.2	124.6	16.8	31.5	7.20
Average			197.0	100.5	13.7	26.4	3.95
98 PERCENTILE			244.6	123.4	16.4	31.0	7.02

****End of Test Report****

Note:-

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For ENVIRO-TECH SERVICES

 AUTHORIZED SIGNATORY
 Quality Manager



ENVIRO-TECH SERVICES

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ISO 45001



TEST REPORT

TEST REPORT NO : ETS/1524-20/12/2023

DATE OF REPORT : 31.12.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Analysis Start Date : 05.10.2023

Analysis End Date : 26.12.2023

Sampling Done By : ETS STAFF

Sampling Location : AAQ-2 UNDER 500 METER

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)

Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	03.10.2023	ETS/DI-25	117.3	69.9	12.8	27.3	1.80
2	06.10.2023	ETS/DI-26	86.1	43.3	12.5	28.4	2.30
3	10.10.2023	ETS/DI-27	161.7	70.8	13.9	31.4	6.66
4	13.10.2023	ETS/DI-28	174.2	91.7	12.8	27.3	4.28
5	17.10.2023	ETS/DI-29	187.8	110.7	11.9	25.4	3.81
6	20.10.2023	ETS/DI-30	166.8	105.4	10.3	23.3	7.67
7	24.10.2023	ETS/DI-31	193.3	113.6	11.3	27.2	6.61
8	27.10.2023	ETS/DI-32	182.3	120.7	12.5	13.7	4.93
9	31.10.2023	ETS/DI-33	198.4	117.2	13.9	16.6	7.25
10	03.11.2023	ETS/DI-34	220.7	121.5	14.5	32.6	5.30
11	06.11.2023	ETS/DI-35	230.5	109.4	13.9	27.0	8.20
12	10.11.2023	ETS/DI-36	224.5	129.9	12.8	28.5	5.71
13	13.11.2023	ETS/DI-37	222.1	127.7	11.3	29.8	2.97
14	17.11.2023	ETS/DI-38	231.7	132.8	11.8	31.7	3.81
15	20.11.2023	ETS/DI-39	213.4	114.3	11.9	32.7	6.19
16	24.11.2023	ETS/DI-40	206.7	119.2	10.9	33.8	2.97
17	27.11.2023	ETS/DI-41	229.2	125.7	11.4	31.8	4.76
18	01.12.2023	ETS/DI-42	237.6	115.9	12.8	31.3	6.19
19	04.12.2023	ETS/DI-43	232.5	123.6	13.6	33.8	6.66
20	08.12.2023	ETS/DI-44	208.0	114.0	15.2	34.3	3.44
21	11.12.2023	ETS/DI-45	221.5	118.4	13.5	33.0	6.66
22	15.12.2023	ETS/DI-46	184.0	105.4	13.1	31.5	7.20
23	18.12.2023	ETS/DI-47	212.7	117.4	12.1	29.8	7.08
24	22.12.2023	ETS/DI-48	237.3	123.4	14.5	27.6	3.92
Minimum			86.1	43.3	10.3	13.7	1.80
Maximum			237.6	132.8	15.2	34.3	8.20
Average			199.2	110.1	12.7	28.7	5.27
98 PERCENTILE			237.5	131.5	14.9	34.1	7.96

****End of Test Report****



CHECKED BY
SHRADDHA GUPTA

For ENVIRO-TECH SERVICES

MAHENDRA
Quality Manager

AUTHORIZED SIGNATORY

Note:-

1. Test reports with ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if received after 7 days of issue of test report.
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.



TEST REPORT

TEST REPORT NO : ETS/1524-21/12/2023

DATE OF REPORT : 31.12.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Analysis Start Date : 05.10.2023
Analysis End Date : 24.12.2023
Sampling Done By : ETS STAFF
Sampling Location : AAQ-3 MITANCHAK
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO ₂)	Nitrogen Dioxide(NO ₂)	Carbon Monoxide(CO)
Unit			µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³
Limit (as Per CPCB)			24 Hrs. = 100	24 Hrs. = 60	24 Hrs. = 80	24 Hrs. = 80	1 Hrs. = 04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	01.10.2023	ETS/DI-49	133.0	63.3	12.8	22.6	3.42
2	04.10.2023	ETS/DI-50	95.1	44.4	11.8	25.3	5.60
3	08.10.2023	ETS/DI-51	142.1	67.9	13.9	26.3	7.84
4	11.10.2023	ETS/DI-52	168.5	80.6	15.2	27.2	4.40
5	15.10.2023	ETS/DI-53	198.0	94.4	16.0	28.7	2.52
6	18.10.2023	ETS/DI-54	144.9	71.7	13.9	26.7	3.14
7	22.10.2023	ETS/DI-55	206.5	101.8	15.2	27.7	3.92
8	25.10.2023	ETS/DI-56	162.4	79.9	13.9	28.7	5.10
9	29.10.2023	ETS/DI-57	212.1	105.1	15.3	27.6	7.06
10	01.11.2023	ETS/DI-58	222.6	109.1	14.1	25.0	6.20
11	04.11.2023	ETS/DI-59	242.7	112.7	14.4	26.4	4.20
12	08.11.2023	ETS/DI-60	245.9	116.9	13.7	27.8	7.78
13	11.11.2023	ETS/DI-61	234.6	115.2	13.0	28.4	3.70
14	15.11.2023	ETS/DI-62	250.9	119.6	14.1	27.7	3.53
15	18.11.2023	ETS/DI-63	208.6	98.7	13.7	28.4	5.10
16	22.11.2023	ETS/DI-64	224.3	107.0	15.5	23.5	7.06
17	25.11.2023	ETS/DI-65	235.6	113.0	15.5	25.1	3.92
18	29.11.2023	ETS/DI-66	232.7	103.9	13.9	24.3	6.22
19	02.12.2023	ETS/DI-67	245.8	103.0	16.6	25.2	5.88
20	05.12.2023	ETS/DI-68	219.6	80.6	16.5	28.4	4.70
21	09.12.2023	ETS/DI-69	234.0	108.2	14.1	27.8	5.52
22	12.12.2023	ETS/DI-70	224.6	94.2	14.4	23.0	7.06
23	16.12.2023	ETS/DI-71	228.9	105.3	13.9	26.3	4.20
24	19.12.2023	ETS/DI-72	215.4	103.0	14.0	26.7	4.82
Minimum			95.1	44.4	11.8	22.6	2.52
Maximum			250.9	119.6	16.6	28.7	7.84
Average			205.4	95.8	14.4	26.4	5.12
98 PERCENTILE			248.6	118.3	16.5	28.7	7.81

****End of Test Report****



Note:-

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if received after 7 days of issue of test report.
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

For ENVIRO-TECH SERVICES
AUTHORIZED SIGNATORY
Quality Manager

TEST REPORT

TEST REPORT NO : ETS/1524-22/12/2023

DATE OF REPORT : 31.12.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Analysis Start Date : 05.10.2023
Analysis End Date : 26.12.2023
Sampling Done By : ETS STAFF
Sampling Location : AAQ-4 SADALICHAK VILLAGE
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO ₂)	Nitrogen Dioxide(NO ₂)	Carbon Monoxide(CO)
Unit			µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	03.10.2023	ETS/DI-73	98.4	60.6	17.5	28.4	1.82
2	06.10.2023	ETS/DI-74	129.2	80.6	16.2	27.2	2.59
3	10.10.2023	ETS/DI-75	139.7	72.8	17.4	31.3	2.28
4	13.10.2023	ETS/DI-76	181.3	89.3	18.8	32.7	2.59
5	17.10.2023	ETS/DI-77	195.9	115.7	17.7	34.1	4.09
6	20.10.2023	ETS/DI-78	163.0	94.0	14.6	32.7	4.87
7	24.10.2023	ETS/DI-79	214.6	123.4	16.0	31.7	3.91
8	27.10.2023	ETS/DI-80	189.2	89.5	14.6	29.8	2.61
9	31.10.2023	ETS/DI-81	223.9	127.6	18.7	26.7	2.28
10	03.11.2023	ETS/DI-82	216.2	132.5	17.7	31.2	2.11
11	06.11.2023	ETS/DI-83	240.7	118.0	16.2	28.8	3.89
12	10.11.2023	ETS/DI-84	248.2	142.2	15.0	32.6	1.95
13	13.11.2023	ETS/DI-85	232.6	139.6	17.3	29.9	3.70
14	17.11.2023	ETS/DI-86	236.9	145.5	17.7	31.2	2.01
15	20.11.2023	ETS/DI-87	216.1	119.6	14.6	33.0	2.90
16	24.11.2023	ETS/DI-88	218.6	129.8	15.7	28.5	3.83
17	27.11.2023	ETS/DI-89	241.8	137.3	17.5	29.8	2.10
18	01.12.2023	ETS/DI-90	256.4	126.0	18.9	28.7	4.59
19	04.12.2023	ETS/DI-91	243.8	139.6	19.8	31.7	2.00
20	08.12.2023	ETS/DI-92	217.6	126.2	17.7	28.4	4.01
21	11.12.2023	ETS/DI-93	232.0	134.7	19.2	32.2	2.08
22	15.12.2023	ETS/DI-94	223.9	122.2	17.4	30.1	4.62
23	18.12.2023	ETS/DI-95	207.2	127.8	19.2	28.7	3.75
24	22.12.2023	ETS/DI-96	214.8	125.0	17.8	30.6	1.90
Minimum			98.4	60.6	14.6	27.2	1.82
Maximum			256.4	145.5	19.8	34.1	4.87
Average			207.6	117.5	17.2	30.5	3.02
98 PERCENTILE			252.6	144.0	19.5	33.6	4.75

****End of Test Report****

Note:-

1. Test reports with ANALYTICAL LOGOGRAM are not issued by our laboratory.
2. The results indicated only refer to the test samples and not applicable parameters.
3. No complaint will be entertained if received after 7 days of issue of test report.
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.



CHECKED BY

SHWETA GUPTA

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

MD. JUMRA
Quality Manager



TEST REPORT

TEST REPORT NO : ETS/1524-23/12/2023

DATE OF REPORT : 31.12.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Analysis Start Date : 05.10.2023
Analysis End Date : 24.12.2023
Sampling Done By : ETS STAFF
Sampling Location : AAQ-5 SHEKHPURA
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO ₂)	Nitrogen Dioxide(NO ₂)	Carbon Monoxide(CO)
Unit			µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	01.10.2023	ETS/DI-97	105.5	55.1	12.4	26.8	1.65
2	04.10.2023	ETS/DI-98	92.4	47.7	10.0	24.5	2.36
3	08.10.2023	ETS/DI-99	168.8	93.8	12.4	25.6	2.07
4	11.10.2023	ETS/DI-100	141.3	80.3	11.7	28.1	2.36
5	15.10.2023	ETS/DI-101	197.3	108.8	12.5	24.5	3.72
6	18.10.2023	ETS/DI-102	183.9	94.8	12.4	25.8	4.43
7	22.10.2023	ETS/DI-103	216.3	102.9	13.6	27.1	3.56
8	25.10.2023	ETS/DI-104	205.1	110.0	12.8	28.1	2.37
9	29.10.2023	ETS/DI-105	239.4	107.3	13.2	28.4	2.07
10	01.11.2023	ETS/DI-106	218.0	110.7	11.7	27.4	1.92
11	04.11.2023	ETS/DI-107	242.9	117.8	12.5	25.8	3.54
12	08.11.2023	ETS/DI-108	251.0	119.1	13.2	27.1	1.77
13	11.11.2023	ETS/DI-109	234.6	116.9	12.7	28.2	3.36
14	15.11.2023	ETS/DI-110	213.9	108.9	12.6	27.2	1.83
15	18.11.2023	ETS/DI-111	210.0	99.6	13.2	28.3	2.64
16	22.11.2023	ETS/DI-112	222.8	108.5	13.7	28.6	3.48
17	25.11.2023	ETS/DI-113	267.6	125.6	12.7	25.8	1.91
18	29.11.2023	ETS/DI-114	230.6	112.8	13.2	29.2	4.17
19	02.12.2023	ETS/DI-115	246.9	120.3	12.6	25.7	1.82
20	05.12.2023	ETS/DI-116	219.3	107.3	12.4	27.0	3.65
21	09.12.2023	ETS/DI-117	234.6	93.3	11.7	28.4	1.89
22	12.12.2023	ETS/DI-118	233.4	94.8	12.5	29.6	4.20
23	16.12.2023	ETS/DI-119	213.9	106.7	13.2	28.1	3.41
24	19.12.2023	ETS/DI-120	231.9	110.7	14.3	25.8	1.73
Minimum			92.4	47.7	10.0	24.5	1.65
Maximum			267.6	125.6	14.3	29.6	4.43
Average			209.2	102.2	12.6	27.1	2.74
98 PERCENTILE			259.9	123.1	14.0	29.4	4.32

****End of Test Report****

Note:-

1. Test reports without Hologram are not issued by our laboratory.
2. The results indicated for the tested samples and listed applicable parameters.
3. No complaint will be entertained if received after 3 days after the report date. Date 01.04.2019, Amd. No. 04 Date 01.04.2019
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.



For ENVIRO-TECH SERVICES
MO HUMRAJ
AUTHORIZED SIGNATORY

TEST REPORT

TEST REPORT NO : ETS/1524-24/12/2023

DATE OF REPORT : 31.12.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Analysis Start Date : 05.10.2023
Analysis End Date : 26.12.2023
Sampling Done By : ETS STAFF
Sampling Location : AAQ-6 KAMTA CHAK
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	03.10.2023	ETS/DI-121	91.0	52.0	8.4	26.4	1.80
2	06.10.2023	ETS/DI-122	84.5	40.6	11.2	27.7	2.63
3	10.10.2023	ETS/DI-123	139.6	62.8	13.2	25.2	2.93
4	13.10.2023	ETS/DI-124	151.0	69.3	12.3	26.5	2.03
5	17.10.2023	ETS/DI-125	170.8	88.6	11.6	29.0	3.96
6	20.10.2023	ETS/DI-126	115.8	54.8	12.4	25.4	3.23
7	24.10.2023	ETS/DI-127	179.3	84.1	12.7	23.9	3.00
8	27.10.2023	ETS/DI-128	188.1	89.6	13.2	25.2	2.40
9	31.10.2023	ETS/DI-129	209.3	86.8	12.8	26.5	2.34
10	03.11.2023	ETS/DI-130	180.6	90.3	13.5	27.8	1.50
11	06.11.2023	ETS/DI-131	201.4	96.0	12.4	29.4	3.30
12	10.11.2023	ETS/DI-132	198.3	97.3	13.2	30.7	2.48
13	13.11.2023	ETS/DI-133	194.5	95.4	12.6	31.6	3.83
14	17.11.2023	ETS/DI-134	223.1	99.6	11.7	29.5	1.80
15	20.11.2023	ETS/DI-135	180.8	81.0	10.0	28.1	2.93
16	24.11.2023	ETS/DI-136	189.1	88.4	10.7	26.7	4.05
17	27.11.2023	ETS/DI-137	221.1	98.5	11.4	28.1	2.25
18	01.12.2023	ETS/DI-138	233.0	108.0	12.7	29.1	3.53
19	04.12.2023	ETS/DI-139	204.0	102.0	13.7	31.1	2.93
20	08.12.2023	ETS/DI-140	181.8	89.5	12.1	29.0	4.05
21	11.12.2023	ETS/DI-141	194.0	94.1	10.5	28.1	6.38
22	15.12.2023	ETS/DI-142	200.4	103.9	11.5	26.5	3.60
23	18.12.2023	ETS/DI-143	222.8	107.8	12.3	28.0	3.15
24	22.12.2023	ETS/DI-144	225.4	103.3	12.9	30.4	1.50
Minimum			84.5	40.6	8.4	23.9	1.50
Maximum			233.0	108.0	13.7	31.6	6.38
Average			182.5	86.8	12.0	27.9	2.98
98 PERCENTILE			229.5	107.9	13.6	31.4	5.31

****End of Test Report****



For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
MD HUMRAZ
Quality Manager

Note:-

1. Test reports without ETS LAB HOLOGRAM ARE NOT VALID.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if received after 7 days of issue of test report.
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

TEST REPORT

TEST REPORT NO : ETS/1524-25/12/2023

DATE OF REPORT : 31.12.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Analysis Start Date : 05.10.2023
Analysis End Date : 24.12.2023
Sampling Done By : ETS STAFF
Sampling Location : AAQ-7 SAIDANI CHAK
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	01.10.2023	ETS/DI-145	105.4	69.4	9.4	34.6	1.79
2	04.10.2023	ETS/DI-146	119.9	71.8	7.4	36.2	1.60
3	08.10.2023	ETS/DI-147	143.5	88.7	13.7	34.5	1.43
4	11.10.2023	ETS/DI-148	150.6	87.1	14.2	38.0	2.94
5	15.10.2023	ETS/DI-149	169.5	109.5	15.1	36.5	2.10
6	18.10.2023	ETS/DI-150	152.0	102.9	16.3	39.0	3.36
7	22.10.2023	ETS/DI-151	173.1	111.6	16.5	36.2	4.20
8	25.10.2023	ETS/DI-152	175.8	119.3	17.2	39.7	5.46
9	29.10.2023	ETS/DI-153	180.6	115.5	16.6	37.3	5.04
10	01.11.2023	ETS/DI-154	184.5	120.1	16.3	34.6	3.78
11	04.11.2023	ETS/DI-155	205.3	124.0	17.2	36.2	1.26
12	08.11.2023	ETS/DI-156	219.1	129.2	17.8	38.2	2.10
13	11.11.2023	ETS/DI-157	198.4	127.2	16.4	39.5	3.36
14	15.11.2023	ETS/DI-158	200.5	132.3	16.1	36.5	5.04
15	18.11.2023	ETS/DI-159	176.5	118.0	15.3	38.5	4.62
16	22.11.2023	ETS/DI-160	181.6	117.7	13.7	39.7	3.78
17	25.11.2023	ETS/DI-161	200.9	124.6	13.3	36.2	4.20
18	29.11.2023	ETS/DI-162	206.0	114.1	15.0	40.4	4.62
19	02.12.2023	ETS/DI-163	207.9	135.9	16.5	38.2	4.20
20	05.12.2023	ETS/DI-164	217.8	143.8	13.5	36.3	1.68
21	09.12.2023	ETS/DI-165	197.9	121.2	15.3	38.5	3.36
22	12.12.2023	ETS/DI-166	179.9	102.9	16.4	39.7	4.62
23	16.12.2023	ETS/DI-167	224.0	136.8	13.8	35.5	5.04
24	19.12.2023	ETS/DI-168	198.1	116.5	16.1	38.0	4.20
Minimum			105.4	69.4	7.4	34.5	1.26
Maximum			224.0	143.8	17.8	40.4	5.46
Average			182.0	114.2	15.0	37.4	3.49
98 PERCENTILE			221.8	140.6	17.5	40.1	5.27

****End of Test Report****

For ENVIRO-TECH SERVICES



CHECKED BY
SHRADDHA GUPTA

MB TOMPA
Quality Manager

AUTHORIZED SIGNATORY

Note:-

1. Test reports without ETS-LAB LOGOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested sample and are not applicable to other samples.
3. No complaint will be entertained if received after 7 days of issue of test report.
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
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TEST REPORT

TEST REPORT NO : ETS/1524-26/12/2023

DATE OF REPORT :31.12.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Analysis Start Date : 05.10.2023
Analysis End Date : 26.12.2023
Sampling Done By : ETS STAFF
Sampling Location : AAQ-8 NATHUPUR
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	03.10.2023	ETS/DI-169	110.7	55.1	14.7	26.5	2.21
2	06.10.2023	ETS/DI-170	192.3	86.9	13.5	27.8	2.21
3	10.10.2023	ETS/DI-171	212.3	106.0	16.3	29.3	3.78
4	13.10.2023	ETS/DI-172	162.7	73.0	18.1	30.2	2.84
5	17.10.2023	ETS/DI-173	221.9	115.6	16.1	28.0	2.86
6	20.10.2023	ETS/DI-174	203.6	102.4	17.6	26.7	4.41
7	24.10.2023	ETS/DI-175	243.9	119.1	16.5	30.4	3.70
8	27.10.2023	ETS/DI-176	255.4	121.8	15.5	26.7	5.46
9	31.10.2023	ETS/DI-177	242.9	115.9	16.4	27.7	4.31
10	03.11.2023	ETS/DI-178	245.2	120.7	17.2	29.3	5.99
11	06.11.2023	ETS/DI-179	273.3	147.9	17.8	30.6	2.52
12	10.11.2023	ETS/DI-180	260.9	130.5	16.1	28.0	3.15
13	13.11.2023	ETS/DI-181	264.0	127.6	14.8	32.0	5.04
14	17.11.2023	ETS/DI-182	271.2	133.3	16.5	29.4	2.52
15	20.11.2023	ETS/DI-183	254.2	131.1	16.8	30.6	4.10
16	24.11.2023	ETS/DI-184	241.0	118.1	17.4	31.6	5.67
17	27.11.2023	ETS/DI-185	278.2	149.4	16.4	29.4	3.15
18	01.12.2023	ETS/DI-186	263.1	127.3	13.0	28.2	3.47
19	04.12.2023	ETS/DI-187	276.8	135.9	14.8	26.5	3.78
20	08.12.2023	ETS/DI-188	247.8	120.5	16.6	28.0	5.36
21	11.12.2023	ETS/DI-189	263.3	129.5	17.2	29.6	3.78
22	15.12.2023	ETS/DI-190	148.3	152.9	16.8	28.0	5.47
23	18.12.2023	ETS/DI-191	249.3	122.5	16.3	26.0	4.10
24	22.12.2023	ETS/DI-192	284.6	142.0	15.2	29.3	3.57
Minimum			110.7	55.1	13.0	26.0	2.21
Maximum			284.6	152.9	18.1	32.0	5.99
Average			236.1	120.2	16.1	28.7	3.89
98 PERCENTILE			281.7	151.3	18.0	31.8	5.84

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
SHRADHA GUPTA

AUTHORIZED SIGNATORY

Note:-

1. Test reports without ETS LAB HOLOGRAM are not valid.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if received after 7 days of issue of test report.
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TEST REPORT

TEST REPORT NO: ETS/1524-27/12/2023

DATE OF REPORT: 31.12.2023

NOISE MONITORING REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Date of Monitoring : 15.12.2023
Monitoring Start Date : 15.12.2023
Monitoring End Date : 16.12.2023
Monitoring Done By : ETS STAFF
Monitoring Duration : 24.0 HOURS
Place Of Monitoring : NQ-1 PROJECT SITE
Category Of Area : RESIDENTIAL AREA
Sampling Method : ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB/ Factories Act)
1.	Noise Level Day Time	Leq :dB (A)	50.2	55
2.	Noise Level Night Time	Leq :dB (A)	34.8	45

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

****End of Test Report****



CHECKED BY
SHRADDHA GUPTA

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

Note:-

Format no ETS /LAB/TR-02 Issue No 04 dt 01/06/2019 Rev No 03 dt 01/06/2019

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
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TEST REPORT

TEST REPORT NO : ETS/1524-28/12/2023

DATE OF REPORT : 31.12.2023

NOISE MONITORING REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Date of Monitoring : 15.12.2023

Monitoring Start Date : 15.12.2023

Monitoring End Date : 16.12.2023

Monitoring Done By : ETS STAFF

Monitoring Duration : 24.0 HOURS

Place Of Monitoring : NQ-2 SHRI RAM CENTENNIAL SCHOOL NEAR EKTAPURAM

Category Of Area : SILENCE ZONE

Sampling Method : ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB/ Factories Act)
1.	Noise Level Day Time	Leq :dB (A)	48.6	50
2.	Noise Level Night Time	Leq :dB (A)	34.1	40

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

****End of Test Report****



CHECKED BY
SHRADHA GUPTA

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

Note:-

Format no ETS /LAB/TR-02 Issue No 04 dt 01/06/2019 Rev No 03 dt 01/06/2019

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TEST REPORT

TEST REPORT NO : ETS/1524-28/12/2023

DATE OF REPORT : 31.12.2023

NOISE MONITORING REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Date of Monitoring : 15.12.2023

Monitoring Start Date : 15.12.2023

Monitoring End Date : 16.12.2023

Monitoring Done By : ETS STAFF

Monitoring Duration : 24.0 HOURS

Place Of Monitoring : NQ-3 DEVI STHAN CHAKPUL

Category Of Area : RESIDENTIAL AREA

Sampling Method : ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB/ Factories Act)
1.	Noise Level Day Time	Leq :dB (A)	47.3	55
2.	Noise Level Night Time	Leq :dB (A)	39.1	45

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.

Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

****End of Test Report****



Note:-

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MO HUMRAJ
Quality Manager



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TEST REPORT

TEST REPORT NO : ETS/1524-29/12/2023

DATE OF REPORT : 31.12.2023

NOISE MONITORING REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Date of Monitoring : 18.12.2023

Monitoring Start Date : 18.12.2023

Monitoring End Date : 19.12.2023

Monitoring Done By : ETS STAFF

Monitoring Duration : 24.0 HOURS

Place Of Monitoring : NQ-4 BAJRANGBALI TEMPLE NEAR DARIYAPUR

Category Of Area : RESIDENTIAL AREA

Sampling Method : ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB/ Factories Act)
1.	Noise Level Day Time	Leq :dB (A)	52.7	55
2.	Noise Level Night Time	Leq :dB (A)	36.5	45

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.

Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

****End of Test Report****



Note:-

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For ENVIRO-TECH SERVICES

MO HUMRAJ
Quality Manager
AUTHORIZED SIGNATORY



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TEST REPORT

TEST REPORT NO : ETS/1524-30/12/2023

DATE OF REPORT : 31.12.2023

NOISE MONITORING REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Date of Monitoring : 18.12.2023

Monitoring Start Date : 18.12.2023

Monitoring End Date : 19.12.2023

Monitoring Done By : ETS STAFF

Monitoring Duration : 24.0 HOURS

Place Of Monitoring : NQ-5 SHIV MANDIR NEAR SADDALICHAK

Category Of Area : RESIDENTIAL AREA

Sampling Method : ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB/ Factories Act)
1.	Noise Level Day Time	Leq :dB (A)	46.8	55
2.	Noise Level Night Time	Leq :dB (A)	35.1	45

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

****End of Test Report****



Note:-

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For ENVIRO-TECH SERVICES

MD HUMRAJ
Quality Manager
AUTHORIZED SIGNATORY



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TEST REPORT

TEST REPORT NO : ETS/1524-31/12/2023

DATE OF REPORT : 31.12.2023

NOISE MONITORING REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Date of Monitoring : 18.12.2023

Monitoring Start Date : 18.12.2023

Monitoring End Date : 19.12.2023

Monitoring Done By : ETS STAFF

Monitoring Duration : 24.0 HOURS

Place Of Monitoring : NQ-6 BADULAH CHAK

Category Of Area : RESIDENTIAL AREA

Sampling Method : ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB/ Factories Act)
1.	Noise Level Day Time	Leq :dB (A)	51.7	55
2.	Noise Level Night Time	Leq :dB (A)	37.9	45

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

****End of Test Report****



Note:-

Format no ETS /LAB/TR-02 Issue No 04 dt 01/06/2019 Rev No 03 dt 01/06/2019

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For ENVIRO-TECH SERVICES

MD HUMRAJ
Authorized Signatory



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TEST REPORT

TEST REPORT NO : ETS/1524-32/12/2023

DATE OF REPORT : 31.12.2023

NOISE MONITORING REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Date of Monitoring : 20.12.2023

Monitoring Start Date : 20.12.2023

Monitoring End Date : 21.12.2023

Monitoring Done By : ETS STAFF

Monitoring Duration : 24.0 HOURS

Place Of Monitoring : NQ-7 SAIDANI CHAK

Category Of Area : RESIDENTIAL AREA

Sampling Method : ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB/ Factories Act)
1.	Noise Level Day Time	Leq :dB (A)	44.3	55
2.	Noise Level Night Time	Leq :dB (A)	35.9	45

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

****End of Test Report****



Note:-

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Format no ETS /LAB/TR-02 Issue No 04 dt 01/06/2019 Rev No 03 dt 01/06/2019

For ENVIRO-TECH SERVICES

MD HUMPHREY
Quality Manager
AUTHORIZED SIGNATORY



ENVIRO-TECH SERVICES

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TEST REPORT

TEST REPORT NO : ETS/1524-33/12/2023

DATE OF REPORT : 31.12.2023

NOISE MONITORING REPORT

Name And Address of Customer : M/s ASHIRWAD ENGICON PVT. LTD.
PROPOSED GROUP HOUSING "ASHIRWAD SUNDARLAL CITY"
AT BHELWARA, PATNA, BIHAR.

Date of Monitoring : 20.12.2023

Monitoring Start Date : 20.12.2023

Monitoring End Date : 21.12.2023

Monitoring Done By : ETS STAFF

Monitoring Duration : 24.0 HOURS

Place Of Monitoring : NQ-8 PRIMARY SCHOOL KAMTA CHAK

Category Of Area : SILENCE ZONE

Sampling Method : ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB/ Factories Act)
1.	Noise Level Day Time	Leq :dB (A)	47.3	50
2.	Noise Level Night Time	Leq :dB (A)	36.9	40

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

****End of Test Report****



Note:-

Format no ETS /LAB/TR-02 Issue No 04 dt 01/06/2019 Rev No 03 dt 01/06/2019

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For ENVIRO-TECH SERVICES

MD. HEMU
Quality Manager

AUTHORIZED SIGNATORY