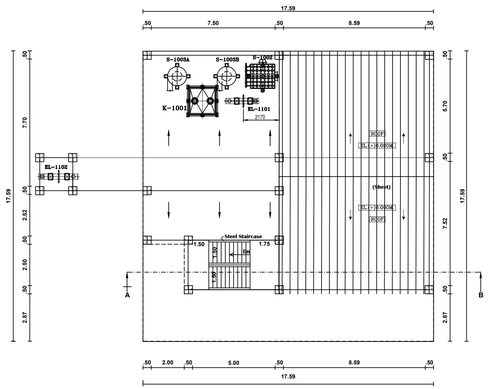
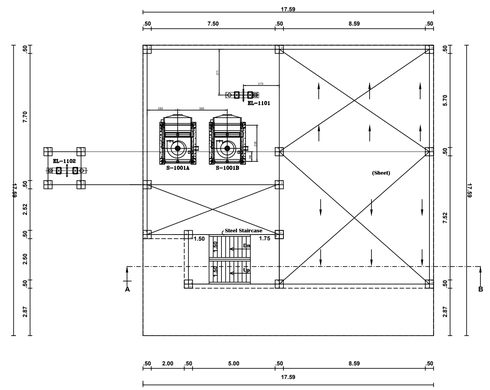
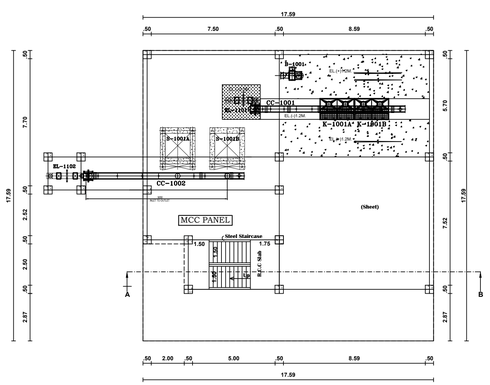
BLOCK NO: 1



SECOND FLOOR PLAN BLOCK NO: 1



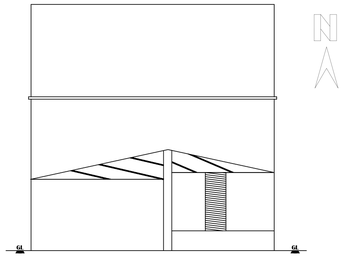
FIRST FLOOR PLAN BLOCK NO: 1



GROUND FLOOR PLAN

BLOCK NO: 1 GRAIN UNLOADING

Grain Unloading



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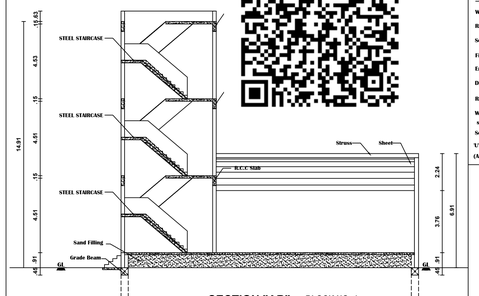

SECTION "AB" BLOCK NO: 1

PLAN SHOWING THE PROPOSED CONSTRUCTION OF & INSTALLATION OF 10251.67 HP ELECTRIC 1500 KVA GENERATOR, IN "NANDA DEVI BIOENERGY LLP BUILDING " FOR PLOT NO:C-107, C-108, C-109, C-110, C-111, C-112 & C-113, TECHNICAL SANCTION.REG L.P./TVL/D.T.C.P.NO: S.W.P./45 /2023 IN THIS MAP REVISES LP/DTCP NO: 54/2013 (WHICH REVISED LP/DTCP NO: 47/2010), GANGAIKONDAN SIP- COT INDUSTRIAL GROWTH CENTER, SURVEY NO:1641 (PART), GANGAIKONDAN PANCHAYAT,GANGAIKONDAN VILLAGE, MANUR PANCHAYAT UNION, TIRUNELVELI TALUK, TIRUNELVELI DISTRICT.

Scale 1:100 All Dimensions are in Metre BLOCK NO:1

RED CATEGORY Grain Unloading

AREA DETAILS:-	FSI	Non-FSI	Total
PRO.GROUND FLOOR AREA	294.28	--------	294.28
PRO.FIRST FLOOR AREA	294.28	--------	294.28
PRO.SECOND FLOOR AREA	117.44	--------	117.44
PRO.HEAD ROOM AREA	--------	15.30	15.30
TOTAL AREA (BLOCK NO:1)	706.00	15.30	721.30

Note:

Waste Water Used for Garden

Rain Water harvesting Details Provided

Solar System Water tank provided

Fire Resistance to be provided

Emergency alarm to be provided

Drinking water to be provided as per corporation norms

Rain water harvesting tank to be provided

Waste water from recycled water tank & Trench connected to sullage disposal tank

Solid waste bin to be Provided

U traps provided in septictank to prevent curb breeding of mosquitoes (As per G.O (M.S) No : 341 - dated 03.11.2004)

Office Use

Dr.R.SANTHAKUMAR, I.E. M.Tech.,M.E., Ph.D.,
Registered Construction Engineer (RCE)
Registration No. RCE/TVL/0/2009
The Vice Principals
4/52-A, ARS Street, Idaikal-627 852
Cell: 7010748086

Construction Engineer

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DTCP RE & RSF - GRADE - I
SENGOTAI MUNICIPALITY - RE - CAT - I
SURYA CONSTRUCTIONS & LAND SURVEYING
NH16, Municipal Complex Bus Stand 1st Floor,
Senkottai - 627 809.
Off: 04633-270237 Cell 95005 88344

Structural Engineer

For NANDA DEVI BIO ENERGY LLP

Partner

Applicant

P. BALAVENKATESH, B.Arch.
REGISTERED ARCHITECT GRADE I
Regn. No. RA-Gr-I-TVL/March/2019/018
1/6, Periyar Nagar Salai,
North Highground Road, Palaiyamkottai,
Tirunelveli - 627 002.

Registered Engineer/ Architect

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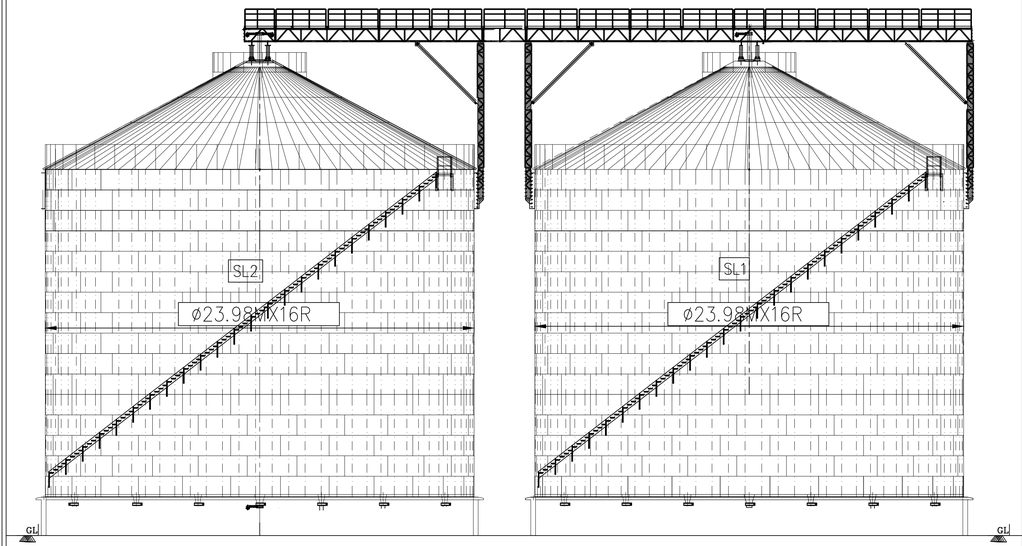
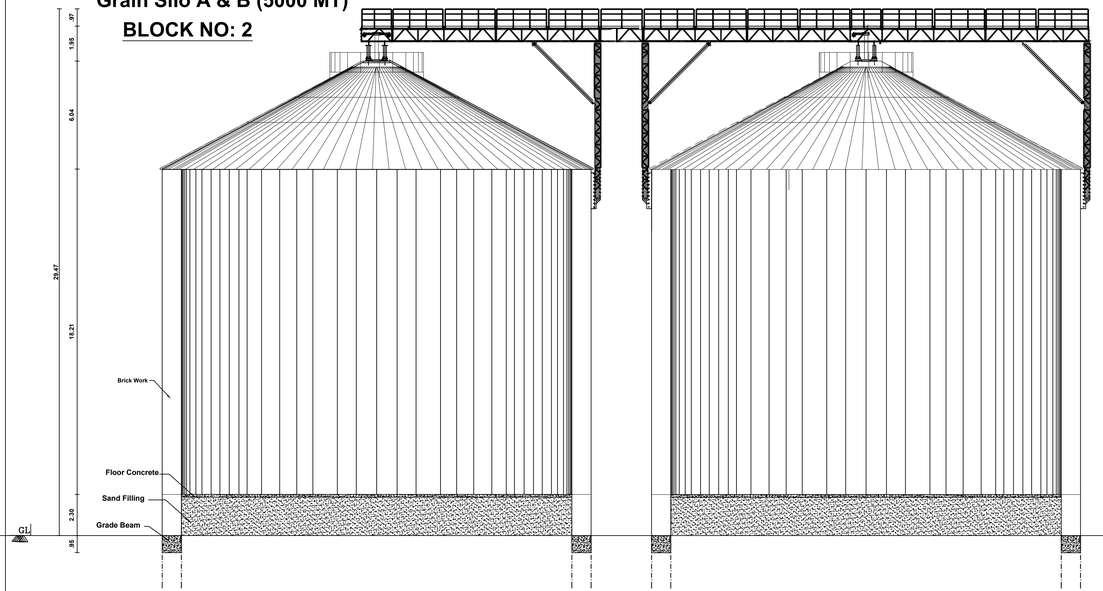
02/01/2024



ELEVATION BLOCK NO: 2

Grain Silo A & B (5000 MT)

BLOCK NO: 2



SECTION "AB" BLOCK NO: 2

PLAN SHOWING THE PROPOSED CONSTRUCTION OF & INSTALLATION OF 10251.67 HP ELECTRIC 1500 KVA GENERATOR, IN "NANDA DEVI BIOENERGY LLP BUILDING " FOR PLOT NO:C-107, C-108, C-109, C-110, C-111, C-112 & C-113, TECHNICAL SANCTION.REG L.P./TVL/D.T.C.P.NO: S.W.P./45 /2023 IN THIS MAP REVISES LP/DTCP NO: 54/2013 (WHICH REVISED LP/DTCP NO: 47/2010), GANGAIKONDAN SIP- COT INDUSTRIAL GROWTH CENTER, SURVEY NO:1641 (PART), GANGAIKONDAN PANCHAYAT,GANGAIKONDAN VILLAGE, MANUR PANCHAYAT UNION, TIRUNELVELI TALUK, TIRUNELVELI DISTRICT.

Scale 1:100 All Dimensions are in Metre BLOCK NO:2

RED CATEGORY Grain Silo A & B (5000 MT)

AREA DETAILES:-	FSI	Non-FSI	Total
PRO.GROUND FLOOR AREA (BLOCK NO:2)	935.40	--------	935.40

Note:

Waste Water Used for Garden

Rain Water harvesting Details Provided

Solar System Water tank provided

Fire Resistance to be provided

Emergency alarm to be provided

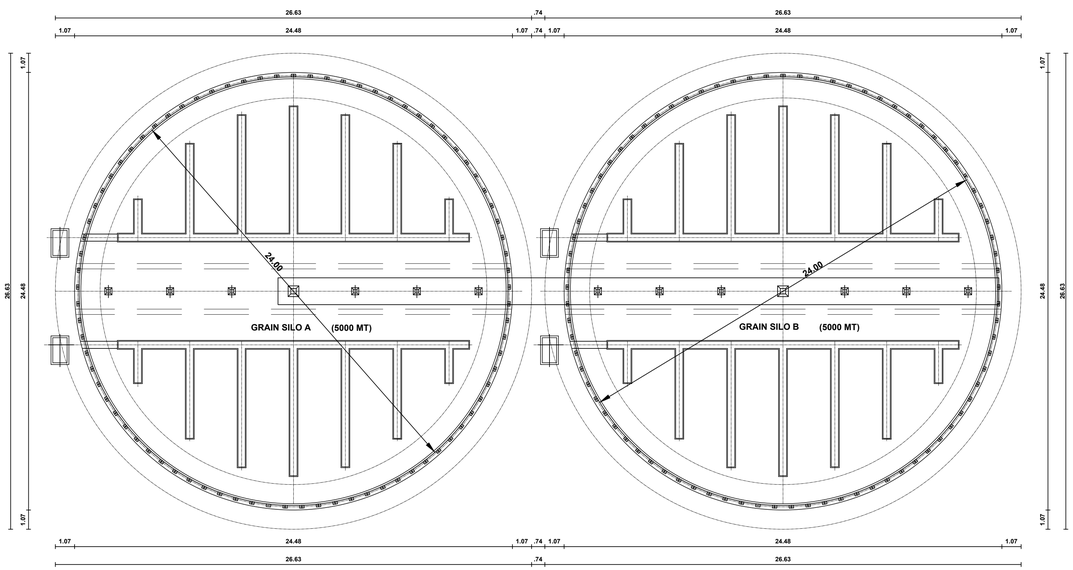
Drinking water to be provided as per corporation norms

Rain water harvesting tank to be provided

Waste water from recycled water tank & Trench connected to sullage disposal tank

Solid waste tub to be Provided

U traps provided in septictank to prevent curb breeding of mosquitoes (As per G.O (M.S) No : 341 - dated 03.11.2004)



GROUND FLOOR PLAN

GRAIN SILO A & B (5000 MT)

BLOCK NO: 2

Office Use

Dr.R.SANKARKUMAR, I.I. B.Sc. M.Sc. Ph.D. Registered Construction Engineer (RCE) Registration No: RSE/TVLR/04/2020 The Shine Associates 4/52-A, AMS Street, Vadakal-627 852. Cell: 7010744886.

Construction Engineer

P. A.K.SIVAVANAMUTHIAH B.E.,M.Tech., DTCP RE & RSF - GRADE - I PAVU.,FIV., SENGOTTAI MUNCIPALITY - RE - GR - I SURYA CONSTRUCTIONS & LAND SURVEYING #81A, Municipal Complex Bus Stand 1st Floor, Sengottai - 627 809. Off: ☎ 04633-210237 Cell 93605 88344

Structural Engineer

For NANDA DEVI BIO ENERGY LLP

Partner

Applicant

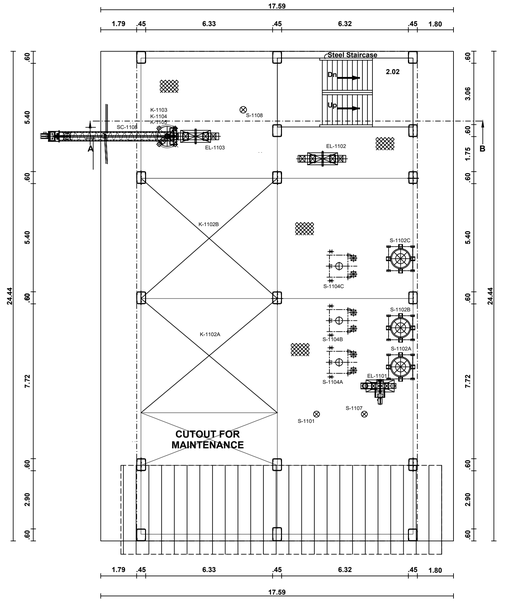
P. BALAVENKATESH, B.Arch. REGISTERED ARCHITECT GRADE I Regn. No. AA/GrI/TVL/March/2019/018 1/6, Periyar Nagar Salai, North Highground Road, Palayamkottai, Tirunelveli - 627 002.

Registered Engineer/ Architect

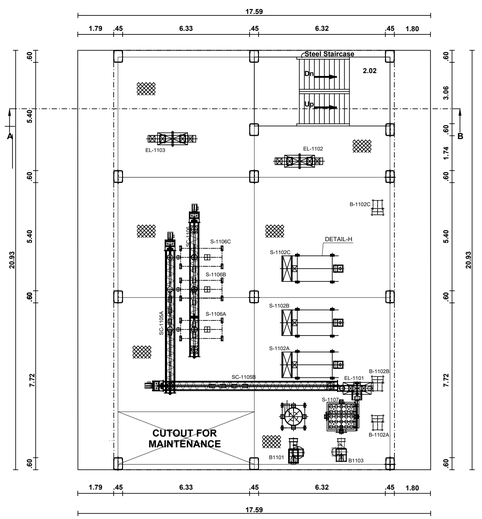
Sheet No:2

54	2024
02/01	2024

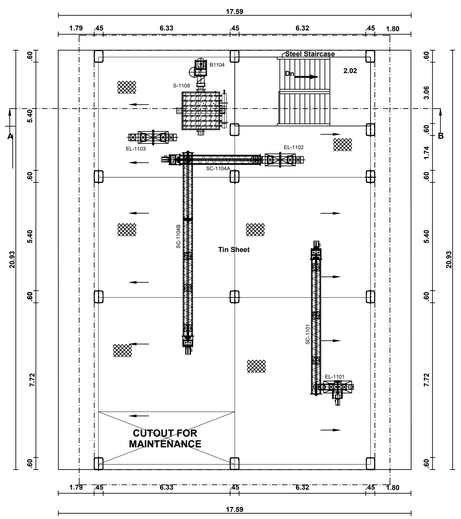
BLOCK NO: 3 Grain Cleaning



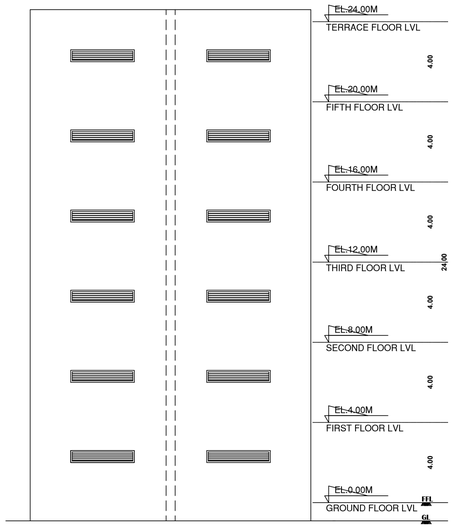
THIRD FLOOR PLAN
GRAIN CLEANING & MILLING BLOCK NO: 3



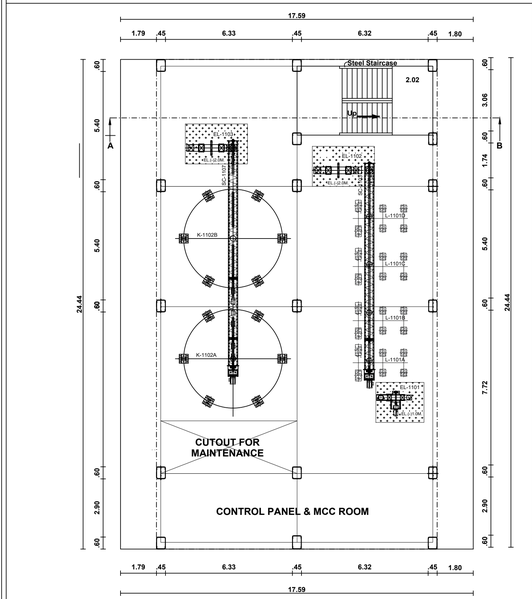
FOURTH FLOOR PLAN
GRAIN CLEANING & MILLING BLOCK NO: 3



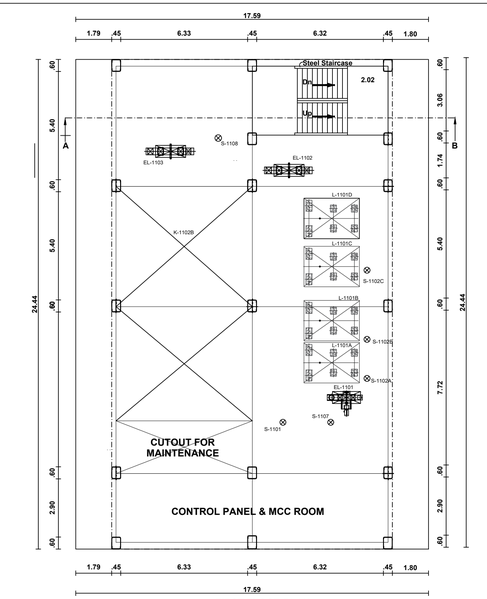
FIFTH FLOOR PLAN
GRAIN CLEANING & MILLING BLOCK NO: 3



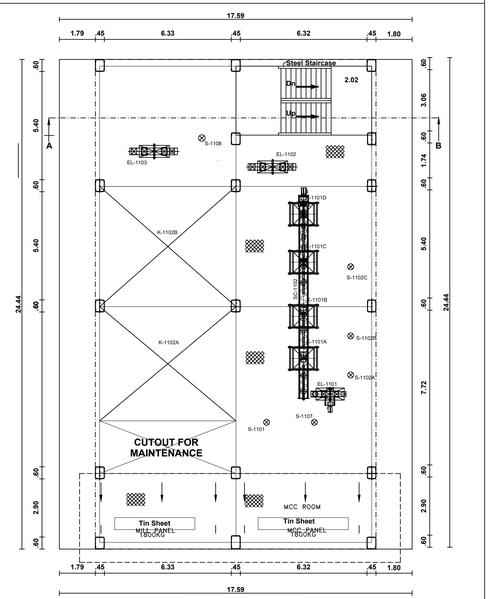
ELEVATION "AB" BLOCK NO: 3



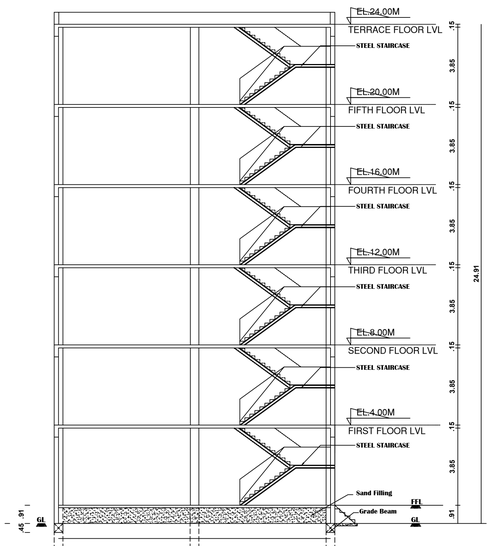
GROUND FLOOR PLAN
GRAIN CLEANING & MILLING BLOCK NO: 3



FIRST FLOOR PLAN
GRAIN CLEANING & MILLING BLOCK NO: 3



SECOND FLOOR PLAN
GRAIN CLEANING & MILLING BLOCK NO: 3



SECTION "AB" BLOCK NO: 3

PLAN SHOWING THE PROPOSED CONSTRUCTION OF

& INSTALLATION OF 10251.67 HP ELECTRIC 1500 KVA GENERATOR, IN

"NANDA DEVI BIOENERGY LLP BUILDING " FOR PLOT NO:C-107, C-108, C-109, C-110,

C-111, C-112 & C-113, TECHNICAL SANCTION.REG L.P./TVL/D.T.C.P.NO: S.W.P./45 /2023

IN THIS MAP REVISES LP/DTCP NO: 54/2013 (WHICH REVISED LP/DTCP NO: 47/2010),

GANGAIKONDAN SIP- COT INDUSTRIAL GROWTH CENTER, SURVEY NO:1641 (PART),

GANGAIKONDAN PANCHAYAT,GANGAIKONDAN VILLAGE, MANUR PANCHAYAT UNION,

TIRUNELVELI TALUK, TIRUNELVELI DISTRICT.

Scale 1:100 All Dimensions are in Metre

BLOCK NO:3

RED CATEGORY

Grain Cleaning

AREA DETAILES:-	FSI	Non-FSI	Total
PRO.GROUND FLOOR AREA	349.98	----------	349.98
PRO.FIRST FLOOR AREA	349.98	--------	349.98
PRO.SECOND FLOOR AREA	349.98	--------	349.98
PRO.THIRD FLOOR AREA	349.98	--------	349.98
PRO.FOURTH FLOOR AREA	293.00	--------	293.00
PRO.FIFTH FLOOR AREA	293.00	--------	293.00
PRO.HEAD ROOM AREA	--------	26.68	26.68
TOTAL AREA (BLOCK NO:3)	1985.92	26.68	2012.60

MILL SECTION ELECTRICAL LOAD DETAILS

Sl. No.	Equipment Name	QUANTITY	Rating/Operation HP	Stand by load HP	Connected Load HP
1	Chain conveyor below Intake Hopper	1	7.5	7.5	7.5
2	Bucket Elevator	1	10	10	10
3	Rotary valve	1	1	1	1
4	Blower for Pre-Cleaner	1	30	30	30
5	Chain conveyor below aircleaner	1	7.5	7.5	7.5
6	Rotary valve Below Precleaner Cyclone	1	1.5	0	1.5
7	Rotary valve Below Bag Filter	1	1	1	1.0
8	Blower For Bag Filter (Receiving section)	1	15	15	15
9	Bucket Elevator	1	15	15	15
10	Chain conveyor above silo	1	7.5	7.5	7.5
11	Chain conveyor above silo	1	7.5	7.5	7.5
12	Motorized gate valve	4	1	4	4
13	Blower for silo aeration	4	32	64	64
14	Sweep auger	2	5	10	10
15	Exhaust fan	1	4	4	4
16	Traction Wheel	2	1	2	2
17	Emergency fan	1	1	1	1
18	Chain conveyor below silo	1	5	5	5
19	Chain conveyor below silo	1	5	5	5
20	Chain conveyor below silo	1	5	5	5
21	Bucket Elevator	1	7.5	7.5	7.5
22	Screw Conveyor above magnetic separator	1	5	5	5
23	Rotary valve below SC-1102	2	1.5	0	3
24	Classifier	1	1.5	0	1.5
25	Blower for classifier	1	60	60	60
26	Rotary valve below classifier cyclone	1	1	0	1
27	Destoner	1	0.5	0	0.5
28	Blower for destoner	1	40	40	40
29	Rotary valve for destoner cyclone	1	0	0	0
30	Screw conveyor above mill feed hopper	1	5	5	5
31	Rotary valve for mill feed hopper inlet	2	1.5	3.5	4.5
32	Hammer Mill	4	240	960	960
33	Blower for mill	4	15	60	60
34	Screw conveyor below hammer mill	1	5	5	5
35	Bucket Elevator	1	7.5	7.5	7.5
36	Screw conveyor for sieving machine	1	5	5	5
37	Screw conveyor for sieving machine	1	5	5	5
38	Screw conveyor for oversize flour	1	5	5	5
39	Screw conveyor for oversize flour	1	5	5	5
40	Rotary valve for the sieving machine	2	1.5	3	3
41	Destoner	1	10	10	10
42	Screw conveyor above flour silo	1	5	5	5
43	Bin Activator	1	0.5	0	0.5
44	Rotary valve for below silo	2	1	4	4
45	Screw conveyor below flour storage silo	1	5	5	5
46	Bucket elevator	1	7.5	7.5	7.5
47	Rotary valve below buffer hopper	1	1	1	1
48	Rotary valve for flourage hopper	1	0	0	0
49	Screw conveyor above aircleaner	1	0	0	0
50	Blower for Flour silo	1	20	20	20
51	Rotary valve for flour bag filter	1	1	1	1
52	Blower for mill bag filter	1	12.5	12.5	12.5
53	Rotary valve below mill bag filter	1	1	1	1
54	Air Compressor	1	5	5	5
	Total	88	544.67		1440.0

Note:

Waste Water Used for Garden

Rain Water harvesting Details Provided

Solar System Water tank provided

Fire Resistance to be provided

Emergency alarm to be provided

Drinking water to be provided as per corporation norms

Rain water harvesting tank to be provided

Waste water from recycled water tank & Trench connected to sullage disposal tank.

Solid waste tub to be Provided

U' traps provided in septictank to prevent curb breeding of mosquitoes (As per G.O (M.S) No : 341 - dated 03.11.2004)

Office Use

Er. A.K.SIVAVANAMUTHIAH, B.E., M.Tech, DTCP RE & RSP - GRADE I (RTD), AVR, SENGOTTAI MUNICIPALITY - RE - GR. I
SURYA CONSTRUCTIONS & LAND SURVEYING
NITAL Mansion,Complex Bus Stand 1st Floor,
Sengottai - 627 809.
Off: 04633-210237 Cell: 93605 88344

Structural Engineer

Dr.S.ANANDARUMAR, B.E., M.Tech, M.Sc., Ph.D.,
Registered Construction Engineer (RCE)
Registration No: RSE/TVL/R/04/2020
The View Associates
4/52-A, ARS Street, Vaahai-627 806,
Cell: 7010744060.

Construction Engineer

For NANDA DEVI BIO ENERGY LLP
Partner

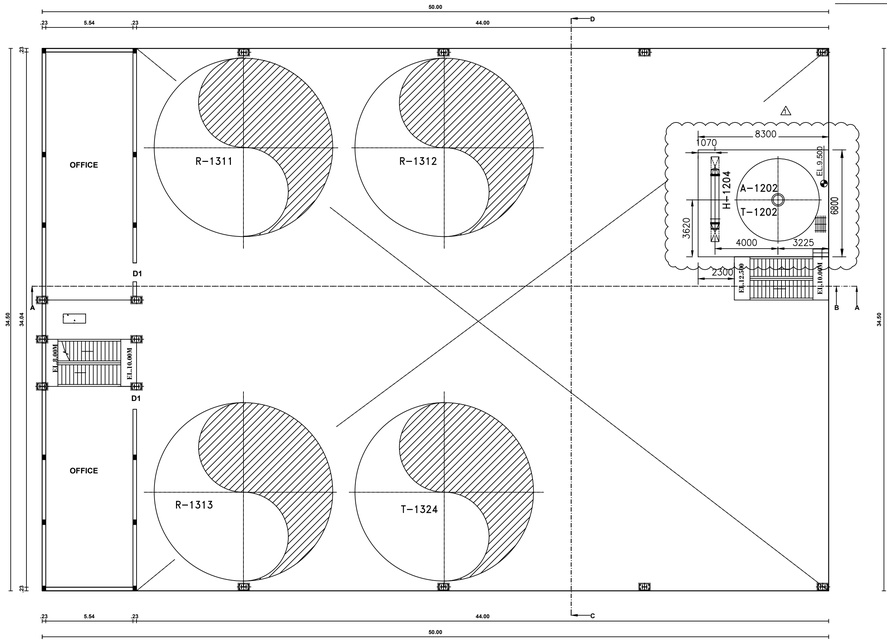
Applicant

P. BALAVENKATESH, B.Arch.,
REGISTERED ARCHITECT GRADE-I
Regn. No. BA-G/1741/March/2019/19
No. 19, Parvur Nagar Salai,
North Highground Road, Palayamkottai,
Tirunelveli - 627 002.

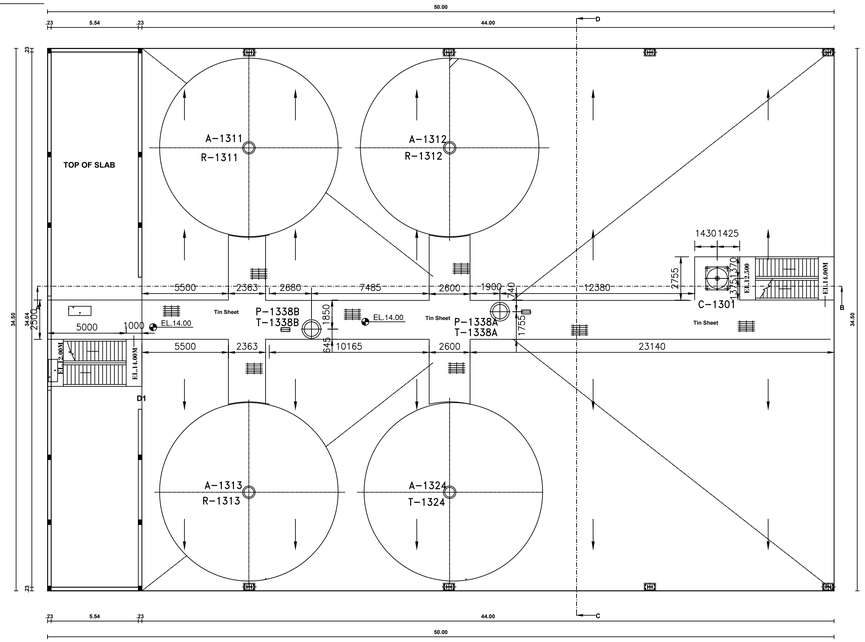
Registered Engineer/ Architect

Sheet No-3
04 2024
02/01/2024

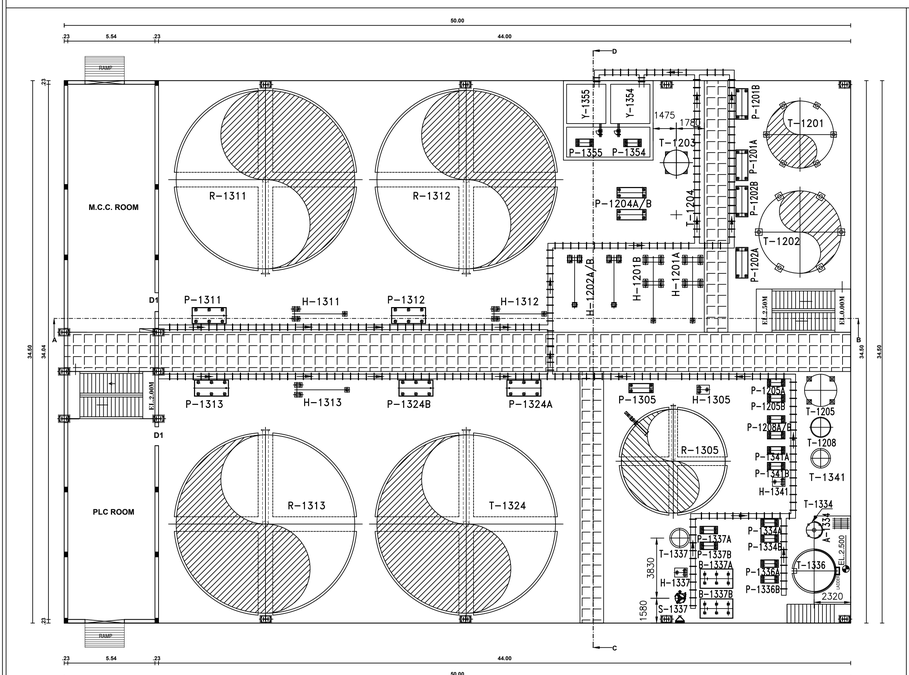
BLOCK NO:4 Fermentation Section



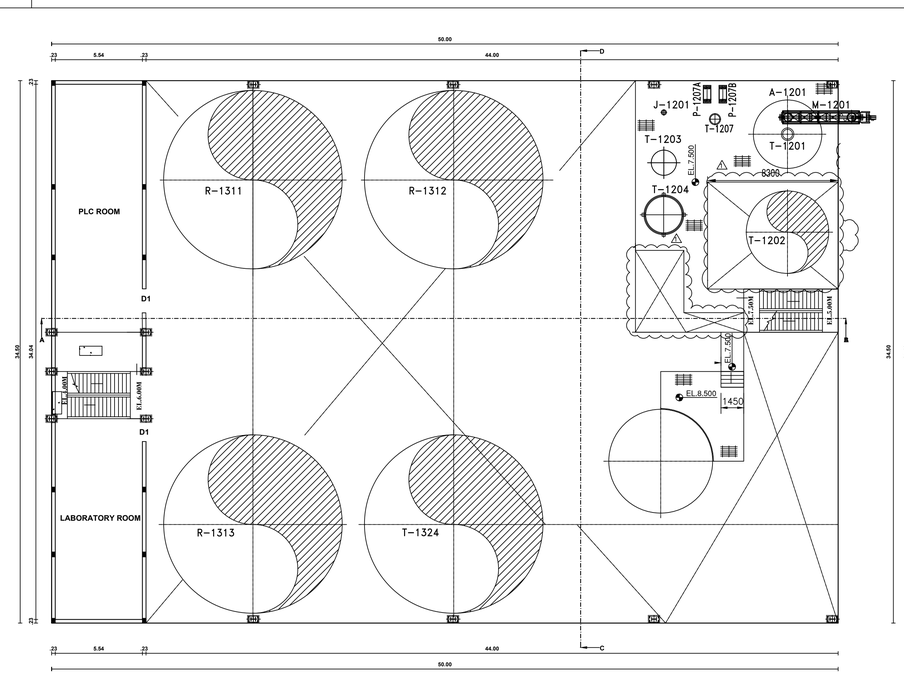
SECOND FLOOR PLAN BLOCK NO:4



THIRD FLOOR PLAN BLOCK NO:4



GROUND FLOOR PLAN BLOCK NO:4



FIRST FLOOR PLAN BLOCK NO:4

PLAN SHOWING THE PROPOSED CONSTRUCTION OF

& INSTALLATION OF 10251.67 HP ELECTRIC 1500 KVA GENERATOR, IN

"NANDA DEVI BIOENERGY LLP BUILDING " FOR PLOT NO:C-107, C-108, C-109, C-110, C-111, C-112 & C-113, TECHNICAL SANCTION.REG L.P./TVL/D.T.C.P.NO: S.W.P./45 /2023 IN THIS MAP REVISES LP/DTCP NO: 54/2013 (WHICH REVISED LP/DTCP NO: 47/2010), GANGAIKONDAN SIP- COT INDUSTRIAL GROWTH CENTER, SURVEY NO:1641 (PART), GANGAIKONDAN PANCHAYAT,GANGAIKONDAN VILLAGE, MANUR PANCHAYAT UNION, TIRUNELVELI TALUK, TIRUNELVELI DISTRICT.

Scale 1:100 All Dimensions are in Metre

BLOCK NO:4

Fermentation Section

RED CATEGORY

AREA DETAILES:-	FSI	Non-FSI	Total
PRO.GROUND FLOOR AREA	1725.01	----------	1725.01
PRO.FIRST FLOOR AREA	1725.01	------	1725.01
PRO.SECOND FLOOR AREA	1725.01	------	1725.01
PRO.THIRD FLOOR AREA	1725.01	------	1725.01
PRO.HEAD ROOM AREA	------	26.68	26.68
TOTAL AREA (BLOCK NO:4)	6900.04	26.68	6926.72

N/A

JOINERY DETAILS:-

R.S - Rolling Shutter 3.06 x 2.10

D - Door 1.20 x 2.10

Legends :

PRO. BUILDING

Note:

Waste Water Used for Garden

Rain Water harvesting Details Provided

Solar System Water tank provided

Fire Resistance to be provided

Emergency alarm to be provided

Drinking water to be provided as per corporation norms

Rain water harvesting tank to be provided

Waste water from recycled water tank & Trench connected to sulfage disposal tank

Solid waste tub to be Provided

'U' traps provided in septictank to prevent curb breeding of mosquitoes (As per G.O (M.S) No : 341 - dated 03.11.2004)

FERMENTATION AND LIQUEFICATION SECTION ELECTRICAL LOAD DETAILS

Sl.No	Equipment Name	QUANTITY	Rating HP	Operation load HP	Stand by load HP	Connected Load HP
1	MOTOR FOR AGITATOR FOR FERMENTOR	3	15	45	0	45
2	MOTOR FOR AGITATOR FOR PRE FERMENTOR	1	5	5	0	5
3	MOTOR FOR AGITATOR FOR NUTRIENT DOSING TANK	1	0.75	0.75	0	0.75
4	MOTOR FOR AGITATOR FOR BEER WELL	1	15	15	0	15
5	MOTOR FOR AIR BLOWER	2 (1W+1 S)	40	40	40	80
6	MOTOR FOR PRE-FERMENTER TRANSFER PUMP	1	40	40	0	40
7	FERMENTED WASH RECIRCULATION PUMP	3	100	300	0	300
8	WASH TRANSFER PUMP	2 (1W+1 S)	40	40	40	80
9	NUTRIENT DOSING PUMP	1	2	2	0	2
10	CIP PUMP FERMENTATION	2 (1W+1 S)	30	30	30	60
11	SEALING WATER PUMP FOR AIR BLOWER	2 (1W+1 S)	3	3	3	6
12	ENZYME DOSING PUMP	2	0.24	0.48	0	0.48
13	SEALING WATER PUMP	2 (1W+1 S)	7.5	7.5	7.5	15
14	CIP EFFLUENT TRANSFER PUMP	1	5	5	0	5
15	FLOOR WASHING TRANSFER PUMP	1	5	5	0	5
16	AGITATOR FOR SLURRY MIXING	1	7.5	7.5	0	7.5
17	AGITATOR FOR LIQUEFICATION	1	15	15	0	15
18	PREMASHER	1	10	10	0	10
19	SLURRY TRANSFER PUMP	2 (1W+1 S)	75	75	75	150
20	FINAL LIQUEFACTION PUMP	2 (1W+1 S)	75	75	75	150
21	FLASH TANK TRANSFER PUMP	2 (1W+1 S)	30	30	30	60
22	RECYCLE STREAMCOLLECTION TRANSFER PUMP	2 (1W+1 S)	7.5	7.5	7.5	15
23	ENZYME DOSING PUMP	2	0.24	0.48	0	0.48
24	CAUSTIC DOSING PUMP	2 (1W+1 S)	2	2	2	4
	TOTAL			761.21	310	1071.21

Office Use

Dr.R.RAMANDAKUMAR, B.E. M.Tech M.Sc. Ph.D.
Registered Construction Engineer (RCE)
Registration No: RSE/TVL/R/2/2329
The View Associates
4/52-A, ARS Street, Vaishali-627 358,
Cell: 7010744068.

Construction Engineer

S.K.K. CONSTRUCTIONS & LAND SURVEYING
DTCP RS & RV - (GAZ)
SPECIAL GRADE CONTRACTOR
SURVEY CONSTRUCTIONS & LAND SURVEYING
NO:6, Vaishnavi Complex Main Road, Tirunelveli - 627 002.
Off: 0462 - 2500501 Cell: 98651 36164

Structural Engineer

For NANDA DEVI BIO ENERGY LLP

Partner

Applicant

P. BALAVENKATESH, B.Arch
REGISTERED ARCHITECT 11/1418/95
Regn. No. RA/2011/21, Main/Division
Ex. Service Man
North Raja Street Road, Nagercoil-629 001.
Cell:94431 - 92736 / 98C.

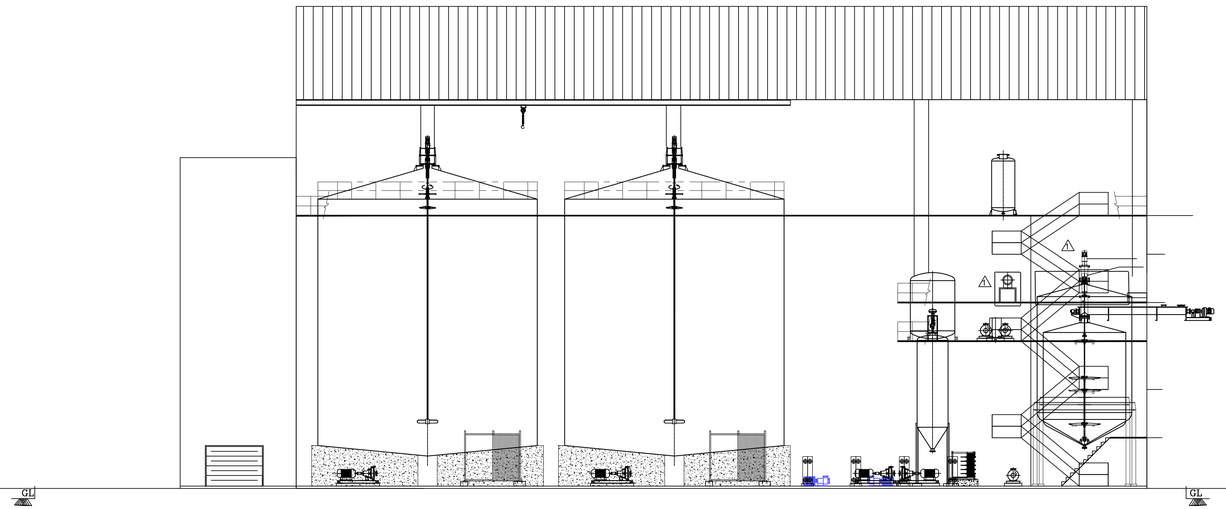
Registered Engineer/ Architect

Sheet No:4

SK	2024
22/01	2024

BLOCK NO:4

Fermentation Section



ELEVATION

AREA DETAILES:-	FSI	Non-FSI	Total
PRO.GROUND FLOOR AREA	1725.01	----------	1725.01
PRO.FIRST FLOOR AREA	1725.01	------	1725.01
PRO.SECOND FLOOR AREA	1725.01	------	1725.01
PRO.THIRD FLOOR AREA	1725.01	------	1725.01
PRO.HEAD ROOM AREA	-------	26.68	26.68
TOTAL AREA (BLOCK NO:4)	6900.04	26.68	6926.72

PLAN SHOWING THE PROPOSED CONSTRUCTION OF

& INSTALLATION OF 10251.67 HP ELECTRIC 1500 KVA GENERATOR, IN

"NANDA DEVI BIOENERGY LLP BUILDING " FOR PLOT NO:C-107, C-108, C-109, C-110,

C-111, C-112 & C-113, TECHNICAL SANCTION.REG L.P./TVL/D.T.C.P.NO: S.W.P./45 /2023

IN THIS MAP REVISES LP/DTCP NO: 54/2013 (WHICH REVISED LP/DTCP NO: 47/2010),

GANGAIKONDAN SIP- COT INDUSTRIAL GROWTH CENTER, SURVEY NO:1641 (PART),

GANGAIKONDAN PANCHAYAT,GANGAIKONDAN VILLAGE, MANUR PANCHAYAT UNION,

TIRUNELVELI TALUK, TIRUNELVELI DISTRICT.

Scale 1:100 All Dimensions are in Metre

BLOCK NO:4

RED CATEGORY

Fermentation Section

JOINERY DETAILS:-

R.S - Rolling Shutter 3.06 x 2.10

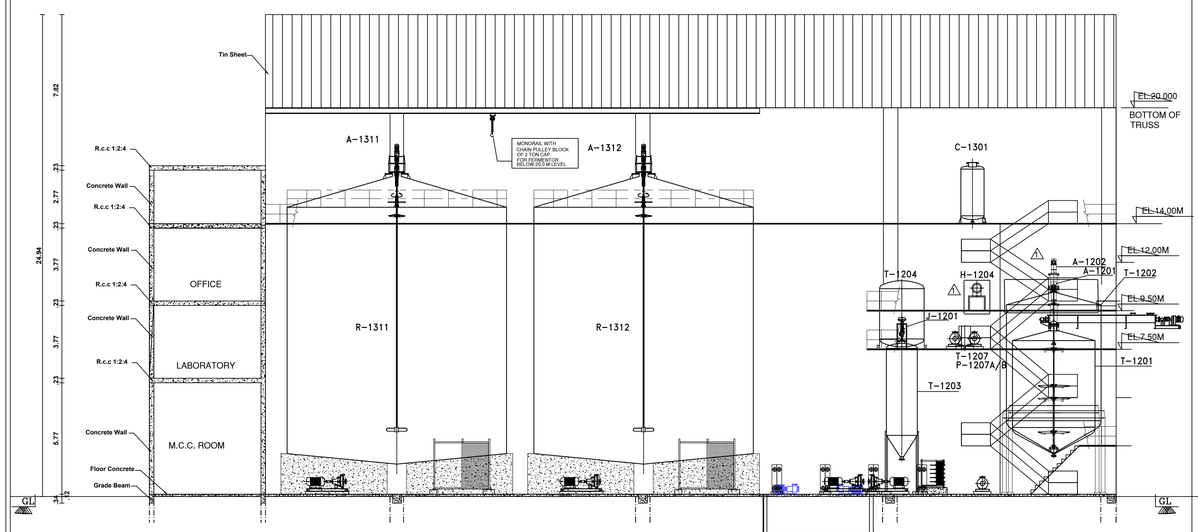
D - Door 1.20 x 2.10

Legends :

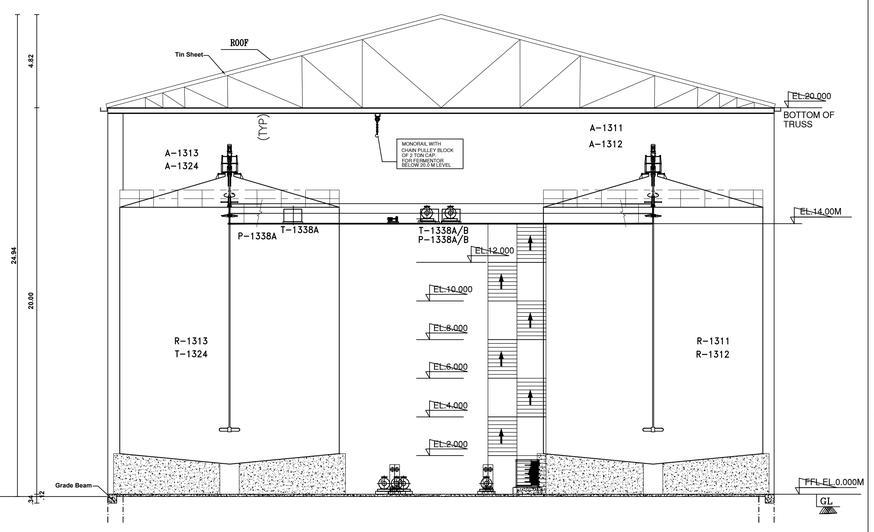
PRO. BUILDING

FERMENTATION AND LIQUEFICATION SECTION ELECTRICAL LOAD DETAILS

Sl.No	Equipment Name	QUANTITY	Rating HP	Operation load HP	Stand by load HP	Connected Load HP
1	MOTOR FOR AGITATOR FOR FERMENTOR	3	15	45	0	45
2	MOTOR FOR AGITATOR FOR PRE FERMENTOR	1	5	5	0	5
3	MOTOR FOR AGITATOR FOR NUTRIENT DOSING TANK	1	0.75	0.75	0	0.75
4	MOTOR FOR AGITATOR FOR BEER WELL	1	15	15	0	15
5	MOTOR FOR AIR BLOWER	2(1W+1 S)	40	40	40	80
6	MOTOR FOR PRE-FERMENTER TRANSFER PUMP	1	40	40	0	40
7	FEMRENTED WASH RECIRCULATION PUMP	3	100	300	0	300
8	WASH TRANSFER PUMP	2(1W+1 S)	40	40	40	80
9	NUTRIENT DOSING PUMP	1	2	2	0	2
10	CIP PUMP FERMENTATION	2(1W+1 S)	30	30	30	60
11	SEALING WATER PUMP FOR AIR BLOWER	2(1W+1 S)	3	3	3	6
12	ENZYME DOSING PUMP	2	0.24	0.48	0	0.48
13	SEALING WATER PUMP	2(1W+1 S)	7.5	7.5	7.5	15
14	CIP EFFLUENT TRANSFER PUMP	1	5	5	0	5
15	FLOOR WASHING TRANSFER PUMP	1	5	5	0	5
16	AGITATOR FOR SLURRY MIXING	1	7.5	7.5	0	7.5
17	AGITATOR FOR LIQUEFCATION	1	15	15	0	15
18	PREMASHER	1	10	10	0	10
19	SLURRY TRANSFER PUMP	2(1W+1 S)	75	75	75	150
20	FINAL LIQUEFACTION PUMP	2(1W+1 S)	75	75	75	150
21	FLASH TANK TRANSFER PUMP	2(1W+1 S)	30	30	30	60
22	RECYCLE STREAMCOLLECTION TRANSFER PUMP	2(1W+1 S)	7.5	7.5	7.5	15
23	ENZYME DOSING PUMP	2	0.24	0.48	0	0.48
24	CAUSTIC DOSING PUMP	2(1W+1 S)	2	2	2	4
	TOTAL		761.21	310	1071.21	



SECTION "AB"



SECTION "CD"

Note:

Waste Water Used for Garden

Rain Water harvesting Details Provided

Solar System Water tank provided

Fire Resistance to be provided

Emergency alarm to be provided

Drinking water to be provided as per corporation norms

Rain water harvesting tank to be provided

Waste water from recycled water tank & Trench connected to sullage disposal tank

Solid waste tub to be Provided

'U' traps provided in septictank to prevent curb breeding of mosquitoes (As per G.O (M.S) No : 341 - dated 03.11.2004)

Office Use

Construction Engineer

Dr.R.ANANDAKUMAR, B.E.,M.Tech.,M.Sc.,Ph.D.,
Registered Construction Engineer (RCE)
Registration No. RSE/TVLR/06/2020
The View Associates,
4/52-A, ARS Street, Vagaikulam-627 010.
Cell: 7010744066

Structural Engineer

Er. A.K.SHIVANAMUTHIAH, M.E.,M.Sc.,
CTCP No. & SP. - GA-SP - 2/PAV./NL,
SENIOR TOWN PLANNER (RETD.),
SENIOR MUNICIPALITY - RS - GR - I
SURYA CONSTRUCTIONS & LAND SURVEYING
487/B, Mankind Complex Bus Stand 1st Floor,
Sangeetha - 627 005.
Off: 0462-2320237 Cell: 93605 88344

Applicant

For NANDA DEVI BIO ENERGY LLP

Partner

Registered Engineer/ Architect

P. BALAVENKATESH, B.Arch.
REGISTERED ARCHITECT GRADE I
Regn. No. NA-G-I(TVL)/Arch/2010/018
1-B, Periyar Nagar Salai,
North Highground Road, Palaiyamkottai,
Tirunelveli - 627 002.

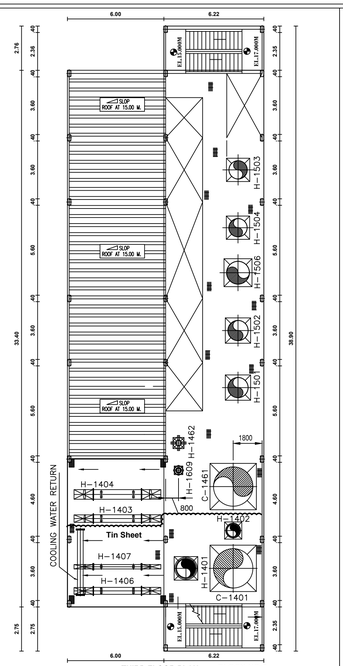
Sheet No-5

04 2024

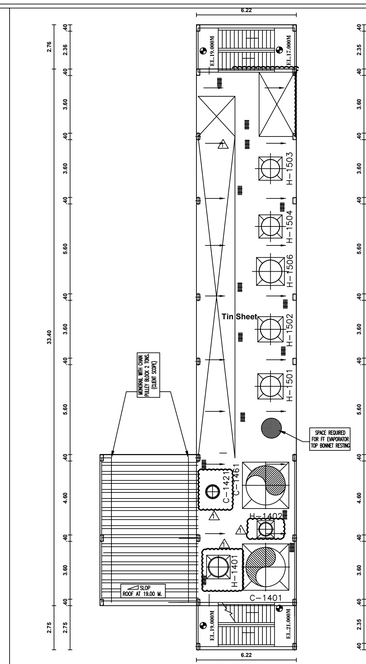
02/01/2024

BLOCK NO:5

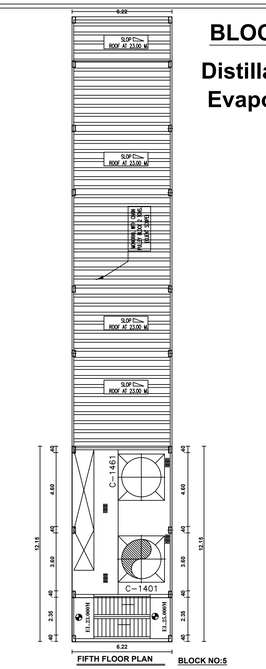
Distillation, MSDH, Evaporation



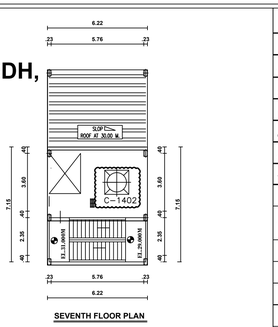
THIRD FLOOR PLAN BLOCK NO:5



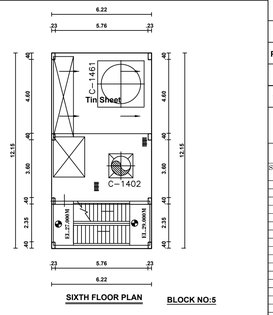
FOURTH FLOOR PLAN BLOCK NO:5



FIFTH FLOOR PLAN BLOCK NO:5



SEVENTH FLOOR PLAN



SIXTH FLOOR PLAN BLOCK NO:5

PLAN SHOWING THE PROPOSED CONSTRUCTION OF & INSTALLATION OF 10251.67 HP ELECTRIC 1500 KVA GENERATOR, IN "NANDA DEVI BIOENERGY LLP BUILDING " FOR PLOT NO:C-107, C-108, C-109, C-110, C-111, C-112 & C-113, TECHNICAL SANCTION.REG L.P./TVL/D.T.C.P.NO: S.W.P./45 /2023 IN THIS MAP REVISES LP/DTCP NO: 54/2013 (WHICH REVISED LP/DTCP NO: 47/2010), GANGAIKONDAN SIP- COT INDUSTRIAL GROWTH CENTER, SURVEY NO:1641 (PART), GANGAIKONDAN PANCHAYAT,GANGAIKONDAN VILLAGE, MANUR PANCHAYAT UNION, TIRUNELVELI TALUK, TIRUNELVELI DISTRICT.

Scale 1:100 All Dimensions are in Metre BLOCK NO:5

RED CATEGORY — Distillation, MSDH, Evaporation

AREA DETAILES:-	FSI	Non-FSI	Total
PRO.GROUND FLOOR AREA	948.04	----------	948.04
PRO.FIRST FLOOR AREA	442.20	----------	442.20
PRO.SECOND FLOOR AREA	442.20	----------	442.20
PRO.THIRD FLOOR AREA	297.00	----------	297.00
PRO.FOURTH FLOOR AREA	241.80	----------	241.80
PRO.FIFTH FLOOR AREA	75.67	----------	75.67
PRO.SIXTH FLOOR AREA	75.67	----------	75.67
PRO.SEVENTH FLOOR AREA	44.65	----------	44.65
PRO.HEAD ROOM AREA	----------	26.68	26.68
TOTAL AREA (BLOCK NO:5)	2567.23	26.68	2593.91

JOINERY DETAILS:-

R.S - Rolling Shutter 3.06 x 2.10

D - Door 1.20 x 2.10

Legends :

PRO. BUILDING

DISTILLATION MSDH EVAPORATION SECTION ELECTRICAL LOAD DETAILS

Sl.No	Equipment Name	QUANTITY	Rating HP	Operation load HP	Stand by load HP	Connected Load HP
1	ANALYSER BOTTOM TRANSFERPUMP	2(1W+1 S)	20	20	20	40
2	RECIRCULATION PUMP FOR RE BOILER	1	30	30	0	30
3	ANALYSER CONDENSATTRANSFER PUMP	2(1W+1 S)	12.5	12.5	12.5	25
4	RECIRCULATION PUMP	1	30	30	0	30
5	VACUUM PUMP DISTILLATION	2(1W+1 S)	40	40	40	80
6	RECTIFIER SPENT LEGSTRANSFER PUMP	2(1W+1 S)	5	5	5	10
7	RECTIFIER COLUMN REFLUX PUMP	2(1W+1 S)	12.5	12.5	12.5	25
8	FUSEL OIL WASHING PUMP	2(1W+1 S)	3	3	3	6
9	STEAM CONDENSATE TANKTRANSFER PUMP	2(1W+1 S)	40	40	40	80
10	SEALING WATER PUMP - DISTVACUUM PUMP	2(1W+1 S)	5	5	5	10
11	RS FEED PUMP	2(1W+1 S)	5	5	5	10
12	REGENERATION PUMP	2(1W+1 S)	60	60	60	120
13	PRODUCT PUMP	2(1W+1 S)	7.5	7.5	7.5	15
14	RECIRCULATION CUM TRANSFER PUMP 1	1	30	30	0	30
15	RECIRCULATION CUM TRANSFER PUMP 2	1	30	30	0	30
16	RECIRCULATION CUM TRANSFER PUMP3	1	20	20	0	20
17	RECIRCULATION CUM TRANSFER PUMP 4	1	25	25	0	25
18	RECIRCULATION CUM TRANSFER PUMP	1	75	75	0	75
19	THIN SLOP FEED PUMP	2(1W+1 S)	7.5	7.5	7.5	15
20	PROCESS CONDENSATE TRANSFER PUMP	2(1W+1 S)	20	20	20	40
21	EFFLUENT HOLDING TANK TRANSFER PUMP	2(1W+1 S)	3	3	3	6
22	CONDENSATE PRODUCT TRANSFER PUMP	2(1W+1 S)	10	10	10	20
23	CIP PUMP FOR EVAPORATION	2(1W+1 S)	7.5	7.5	7.5	15
24	EFFLUENT PIT TRANSFER PUMP	1	7.5	7.5	0	7.5
25	SEALING WATER RECIRCULATION PROCESS PUMP	2(1W+1 S)	7.5	7.5	7.5	15
26	SEALING WATER RECIRCULATION VACUUM PUMP	2(1W+1 S)	5	5	5	10
27	VACUUM PUMP FOR EVAPORATION	3(2W+1 S)	40	80	40	120
	TOTAL			598.5	311	909.5

Note:

Waste Water Used for Garden

Rain Water harvesting Details Provided

Solar System Water tank provided

Fire Resistance to be provided

Emergency alarm to be provided

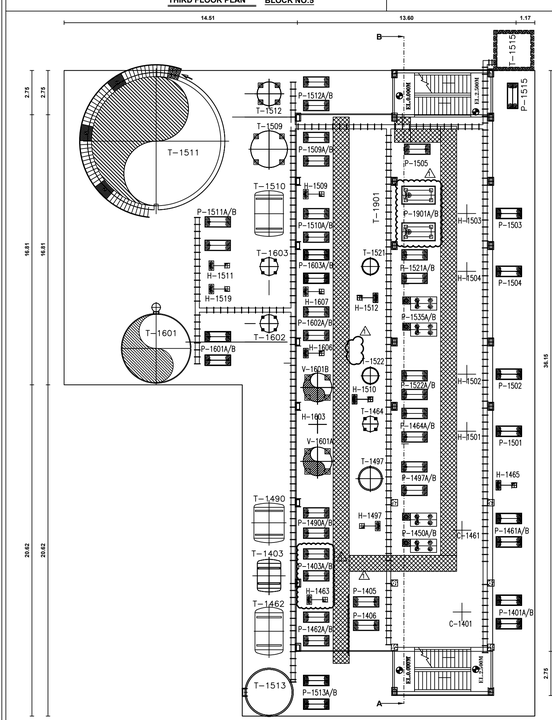
Drinking water to be provided as per corporation norms

Rain water harvesting tank to be provided

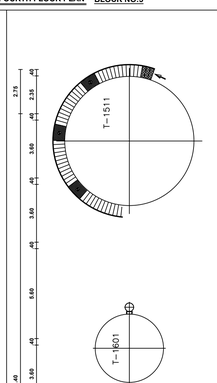
Waste water from recycled water tank & Trench connected to sullage disposal tank

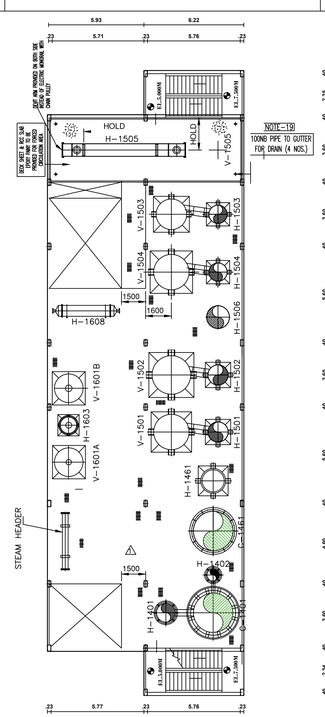
Solid waste tub to be Provided

U' traps provided in septictank to prevent cork breeding of mosquitoes (As per G.O (M.S) No : 341 - dated 03.11.2004)

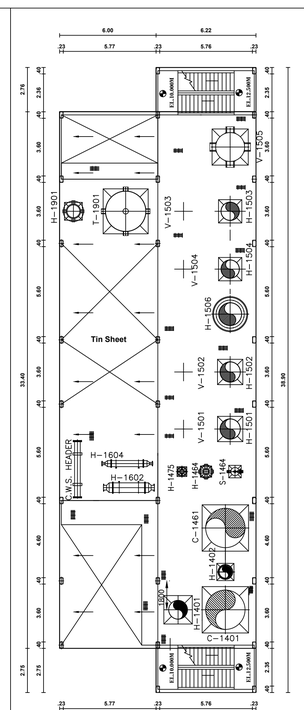


GROUND FLOOR PLAN BLOCK NO:5





FIRST FLOOR PLAN BLOCK NO:5



SECOND FLOOR PLAN BLOCK NO:5

Office Use

Dr. S. ANANDAKUMAR, I.E.,M.Tech.,Ph.D.,
Registered Construction Engineer (RCE)
Registration No. RE/TVL/04/2025
Thy Vine Associates
4/32-A, AMS Street, Vannarpettai
Cell: 7010744855.

Construction Engineer

P. RAJAGOPALAKRISHNAN, M.Sc.,
STCP 85 & M.P. - 0642/ 2nd Class
SENIOR TOWN PLANNER - 85 - GR - I
SURVEYS, CONSTRUCTIONS & LAND SURVEYING
WITH, Shanthi Nagar Complex Bye Pass 1st Floor,
Tirunelveli - 627 005.
Off. Tel 0462-2570757 Cell 97507 85344

Structural Engineer

For NANDA DEVI BIO ENERGY LLP

Partner

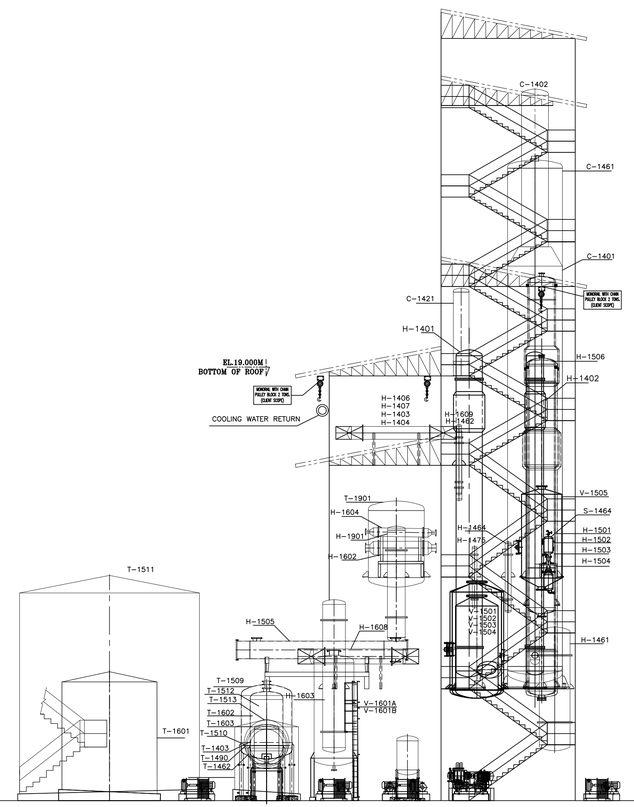
Applicant

P. BALAVENKATESH, B.Arch.
REGISTERED ARCHITECT GRADE I
Regn. No. A/4-Gr.I/TVL/March/2019/918
1/6, Periyar Nagar Salai,
North Highground Road, Palayamkottai,
Tirunelveli - 627 002.

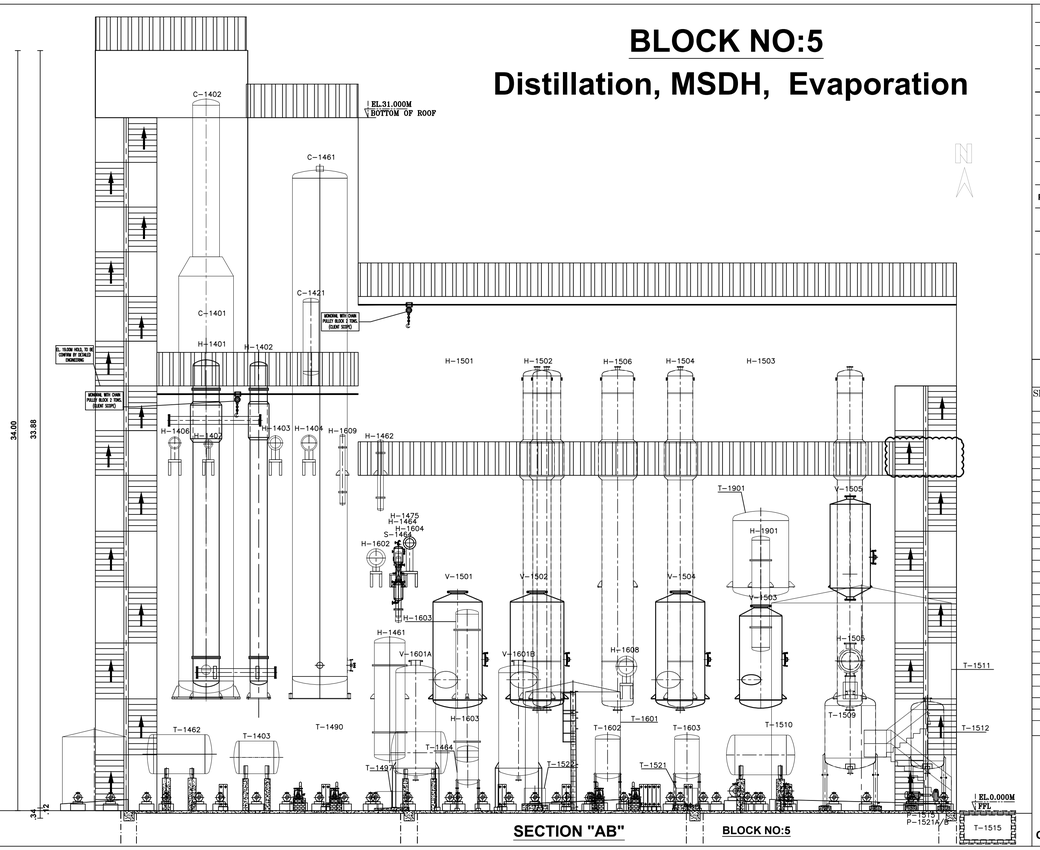
Registered Engineer/ Architect

Sheet No:6
Dt 25/01/2024
02/01/2024

BLOCK NO:5
Distillation, MSDH, Evaporation



ELEVATION BLOCK NO:5



SECTION "AB" BLOCK NO:5

AREA DETAILES:-	FSI	Non-FSI	Total
PRO.GROUND FLOOR AREA	948.04	----------	948.04
PRO.FIRST FLOOR AREA	442.20	----------	442.20
PRO.SECOND FLOOR AREA	442.20	----------	442.20
PRO.THIRD FLOOR AREA	297.00	----------	297.00
PRO.FOURTH FLOOR AREA	241.80	----------	241.80
PRO.FIFTH FLOOR AREA	75.67	----------	75.67
PRO.SIXTH FLOOR AREA	75.67	----------	75.67
PRO.SEVENTH FLOOR AREA	44.65	----------	44.65
PRO.HEAD ROOM AREA	----------	26.68	26.68
TOTAL AREA (BLOCK NO:5)	2567.23	26.68	2593.91

PLAN SHOWING THE PROPOSED CONSTRUCTION OF

& INSTALLATION OF 10251.67 HP ELECTRIC 1500 KVA GENERATOR, IN

"NANDA DEVI BIOENERGY LLP BUILDING " FOR PLOT NO:C-107, C-108, C-109, C-110,

C-111, C-112 & C-113, TECHNICAL SANCTION.REG L.P./TVL/D.T.C.P.NO: S.W.P./45 /2023

IN THIS MAP REVISES LP/DTCP NO: 54/2013 (WHICH REVISED LP/DTCP NO: 47/2010),

GANGAIKONDAN SIP- COT INDUSTRIAL GROWTH CENTER, SURVEY NO:1641 (PART),

GANGAIKONDAN PANCHAYAT,GANGAIKONDAN VILLAGE, MANUR PANCHAYAT UNION,

TIRUNELVELI TALUK, TIRUNELVELI DISTRICT.

Scale 1:100 All Dimensions are in Metre BLOCK NO:5

RED CATEGORY Distillation, MSDH, Evaporation

JOINERY DETAILS:-

R.S - Rolling Shutter 3.06 x 2.10

D - Door 1.20 x 2.10

Legends :

PRO. BUILDING

DISTILLATION MSDH EVAPORATION SECTION ELECTRICAL LOAD DETAILS

Sl.No	Equipment Name	QUANTITY	Rating HP	Operation load HP	Stand by load HP	Connected Load HP
1	ANALYSER BOTTOM TRANSFERPUMP	2(1W+1 S)	20	20	20	40
2	RECIRCULATION PUMP FOR RE BOILER	1	30	30	0	30
3	ANALYSER CONDENSATTRANSFER PUMP	2(1W+1 S)	12.5	12.5	12.5	25
4	RECIRCULATION PUMP	1	30	30	0	30
5	VACUUM PUMP DISTILLATION	2(1W+1 S)	40.0	40	40	80
6	RECTIFIER SPENT LEESTRANSFER PUMP	2(1W+1 S)	5.0	5	5	10
7	RECTIFIER COLUMN REFLUX PUMP	2(1W+1 S)	12.5	12.5	12.5	25
8	FUSEL OIL WASHING PUMP	2(1W+1 S)	3	3	3	6
9	STEAM CONDENSATE TANKTRANSFER PUMP	2(1W+1 S)	40	40	40	80
10	SEALING WATER PUMP - DISTVACUUM PUMP	2(1W+1 S)	5	5	5	10
11	RS FEED PUMP	2(1W+1 S)	5	5	5	10
12	REGENERATION PUMP	2(1W+1 S)	60	60	60	120
13	PRODUCT PUMP	2(1W+1 S)	7.5	7.5	7.5	15
14	RECIRCULATION CUM TRANSFER PUMP 1	1	30	30	0	30
15	RECIRCULATION CUM TRANSFER PUMP 2	1	30	30	0	30
16	RECIRCULATION CUM TRANSFER PUMP3	1	20	20	0	20
17	RECIRCULATION CUM TRANSFER PUMP 4	1	25	25	0	25
18	RECIRCULATION CUM TRANSFER PUMP	1	7.5	7.5	0	7.5
19	THIN SLOP FEED PUMP	2(1W+1 S)	7.5	7.5	7.5	15
20	PROCESS CONDENSATE TRANSFER PUMP	2(1W+1 S)	20	20	20	40
21	EFFLUENT HOLDING TANK TRANSFER PUMP	2(1W+1 S)	3	3	3	6
22	CONDENSATE PRODUCT TRANSFER PUMP	2(1W+1 S)	10	10	10	20
23	CIP PUMP FOR EVAPORATION	2(1W+1 S)	7.5	7.5	7.5	15
24	EFFLUENT PIT TRANSFER PUNP	1	7.5	7.5	0	7.5
25	SEALING WATER RECIRCULATION PROCESS PUMP	2(1W+1 S)	7.5	7.5	7.5	15
26	SEALING WATER RECIRCULATION VACUUM PUMP	2(1W+1 S)	5	5	5	10
27	VACUUM PUMP FOR EVAPORATION	3(2W+1 S)	40	80	40	120
	TOTAL			598.5	311	909.5

Office Use

For NANDA DEVI BIO ENERGY LLP

Partner

Applicant

S. RAMESHKUMAR, M. Arch, M.Sc., M.S.
Registered Construction Engineer (RCE)
Registration No. RCE/TN/KR/N/2005
The View Associates,
4/52-A, MIG Street, Nallakal-627 158,
Cell: 7010744896.

Construction Engineer

S. A.K.SIDDIQUE NANAMUTHU, B.E., M.Tech.,
CPCP RS & RSF - GRADE I (PROJ.) PWD,
SENGOTTAI MUNICIPALITY - RS - GR - I
SURVEYA CONSTRUCTIONS & LAND SURVEYING
497/8,Municipal Complex Bus Stand 1st Floor,
Sengottai - 627 808.
Off. Ph: 04633-210237 Cell: 97905 88344

Structural Engineer

P. BALAVENKATESH, B.Arch.
REGISTERED ARCHITECT GRADE I
Regn. No. RA/Gr-I/TVL/March/2019/018
Valid upto
3-A, Periyar Nagar Tenkasi,
North Highground Road, Palayamkottai,
Tirunelveli - 627 002.

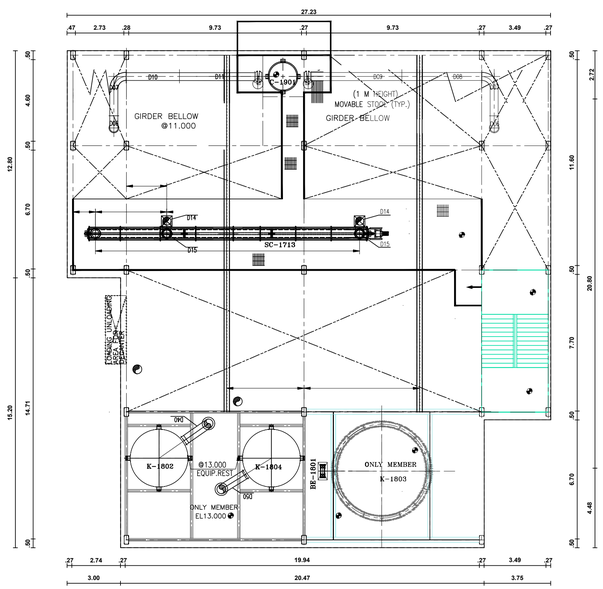
Registered Engineer/ Architect

Sheet No-7

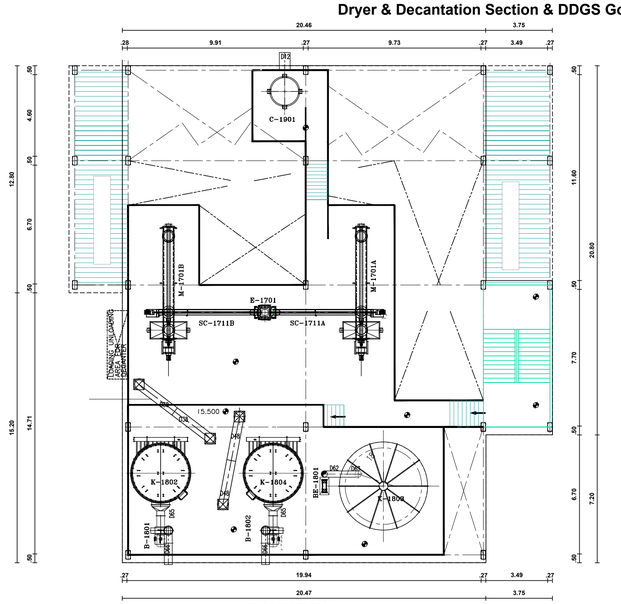
04 2024

02 01 2024

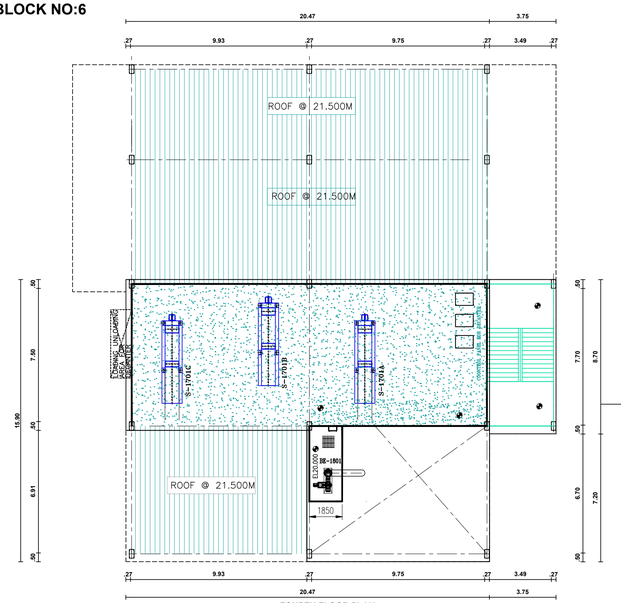
Dryer & Decantation Section & DDGS Godown BLOCK NO:6



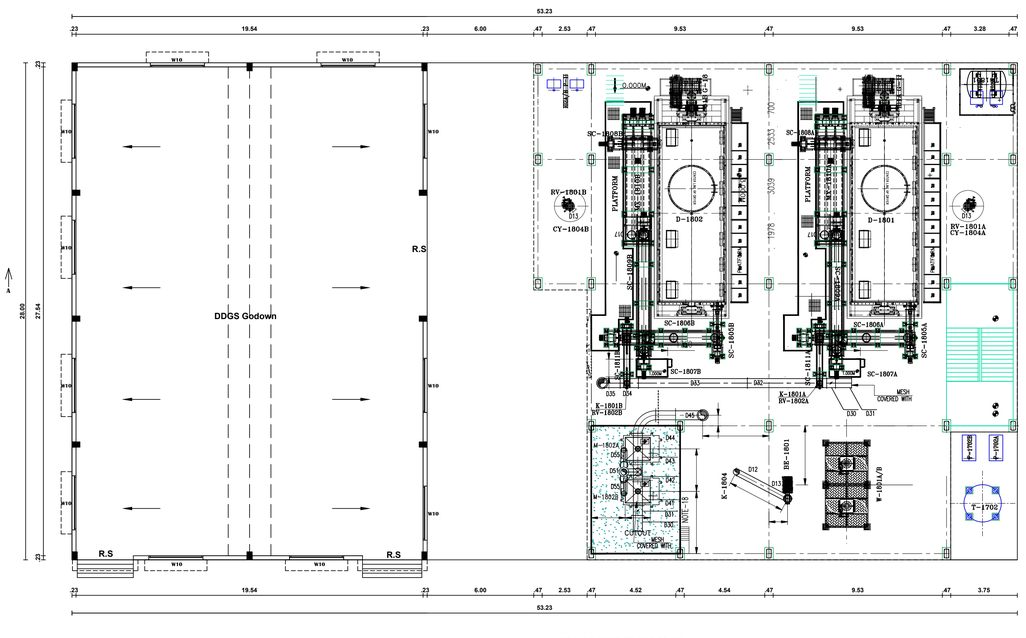
SECOND FLOOR PLAN



THIRD FLOOR PLAN

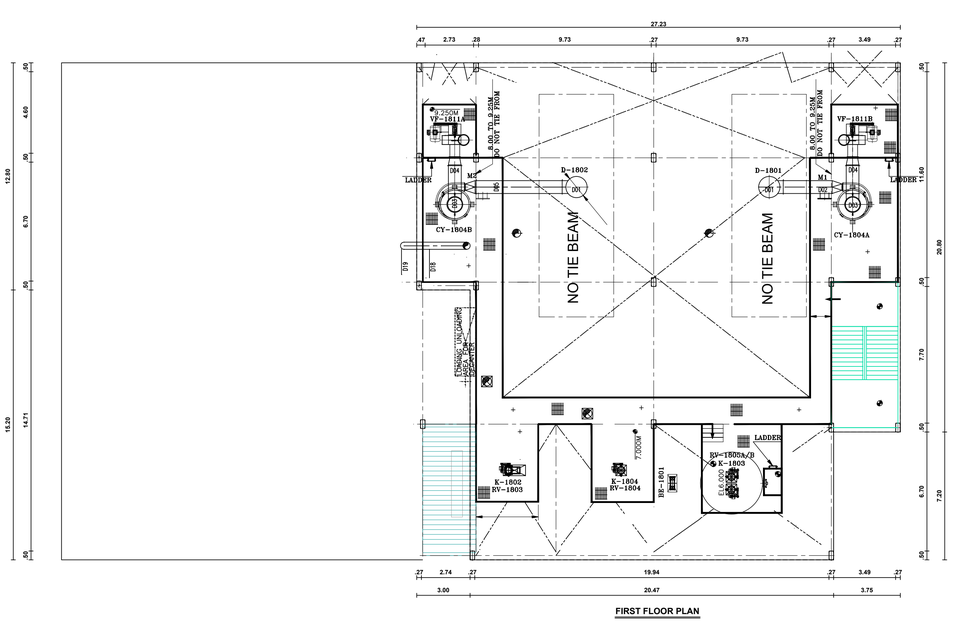


FOURTH FLOOR PLAN



PRO.GROUND FLOOR PLAN

(Block No: 6)



FIRST FLOOR PLAN

PLAN SHOWING THE PROPOSED CONSTRUCTION OF & INSTALLATION OF 10251.67 HP ELECTRIC 1500 KVA GENERATOR, IN "NANDA DEVI BIOENERGY LLP BUILDING " FOR PLOT NO:C-107, C-108, C-109, C-110, C-111, C-112 & C-113, TECHNICAL SANCTION.REG L.P./TVL/D.T.C.P.NO: S.W.P./45 /2023 IN THIS MAP REVISES LP/DTCP NO: 54/2013 (WHICH REVISED LP/DTCP NO: 47/2010), GANGAIKONDAN SIP- COT INDUSTRIAL GROWTH CENTER, SURVEY NO:1641 (PART), GANGAIKONDAN PANCHAYAT,GANGAIKONDAN VILLAGE, MANUR PANCHAYAT UNION, TIRUNELVELI TALUK, TIRUNELVELI DISTRICT.

Scale 1:100 All Dimensions are in Metre

RED CATEGORY — Dryer & Decantation Section & DDGS Godown — BLOCK NO:6

AREA DETAILS:-	FSI	Non-FSI	Total
PRO.GROUND FLOOR AREA	1490.47	----------	1490.47
PRO.FIRST FLOOR AREA	689.71	------	689.71
PRO.SECOND FLOOR AREA	689.71	------	689.71
PRO.THIRD FLOOR AREA	605.79	------	605.79
PRO.FOURTH FLOOR AREA	282.58	------	282.58
PRO.HEAD ROOM AREA	------	26.68	26.68
TOTAL AREA (BLOCK NO:6)	3758.26	26.68	3784.94

Legends :

PRO. BUILDING

DECANTATION DWGS DRYER AND DCC SECTION ELECTRICAL LOAD DETAILS

Sl.No	Equipment Name	Quantity	Rating HP	Operation load HP	Stand by load HP	Connected Load HP
1	RIBBON MIXER	2	7.5	15	0	15
2	THIN SLOP TRANSFER PUMP	2(1W+1 S)	20	20	20	40
3	WET CAKE CONVEYING SCREW FOR DECANTER	2	5	10	0	10
4	WET CAKE CONVEYING SCREW FOR RIBBON MIXER	1	10	10	0	10
5	DECANTER CENTRIFUGE MOTOR	3(2W+1 S)	60	120	60	180
6	MOTOR FOR AIR COMPRESSOR	2(1W+1 S)	15	15	15	30
7	MOTOR FOR CONVEYING BLOWER	1	60	60	0	60
8	MOTOR FOR CONVEYING BLOWER	1	60	60	0	60
9	MOTOR FOR BIN ACTIVATOR	2	2.1	4.2	0	4.2
10	MOTOR FOR DRYER	1	167.5	167.5	0	167.5
11	MOTOR FOR DRYER	1	167.5	167.5	0	167.5
12	MOTOR FOR STEAM CONDENSATE PUMP	2(1W+1 S)	20	20	20	40
13	MOTOR FOR CYCLON ROTARY VALVE	2	1.5	3	0	3
14	MOTOR FOR ROTARY VALVE OF ADJUNCT HOPPER	2	2	4	0	4
15	MOTOR FOR ROTARY VALVE BELOW PRODUCT COLLECTOR (K-1802)	1	3	3	0	3
16	MOTOR FOR ROTARY VALVE BELOW PRODUCT COLLECTOR (K-1804)	1	3	3	0	3
17	MOTOR FOR ROTARY VALVE BELOW PULVERISER M-1802 A	2	2	4	0	4
18	MOTOR FOR ROTARY VALVE BELOW DDGS SILO	2	3	6	0	6
19	MOTOR FOR HAUL OFF SCREW	2	7.5	15	0	15
20	MOTOR FOR DISCHARGE SCREW	2	10	20	0	20
21	MOTOR FOR DOSING SCREW	2	7.5	15	0	15
22	MOTOR FOR FEED SCREW	2	7.5	15	0	15
23	MOTOR FOR CONVEYING SCREW	2	10	20	0	20
24	MOTOR FOR PRODUCT CONVEYING SCREW	2	3	6	0	6
25	MOTOR FOR DOUBLE SHAFT MIXER	2	15	30	0	30
26	MOTOR FOR DOUBLE SHAFT MIXER	2	15	30	0	30
27	MOTOR FOR VAPOR FAN	2	50	100	0	100
28	CONTROL PANEL FOR BAGGING MACHINE	2	3	6	0	6
29	MOTOR FOR PULVERISER	2	75	150	0	150
30	BUCKET ELEVATOR	1	2	2	0	2
31	FLASH TRANSFER PUMP	2(1W+1 S)	75	75	75	150
32	DCC BOTTOM TRANSFER PUMP	2(1W+1 S)	75	75	75	150
	TOTAL			1251.2	265	1516.2

Note:

Waste Water Used for Garden

Rain Water harvesting Details Provided

Solar System Water tank provided

Fire Resistance to be provided

Emergency alarm to be provided

Drinking water to be provided as per corporation norms

Rain water harvesting tank to be provided

Waste water from recycled water tank & Trench connected to soakage disposal tank

Solid waste tub to be Provided

U' traps provided in septictank to prevent curb breeding of mosquitoes

(As per G.O (M.S) No : 341 - dated 03.11.2004)

Office Use

B. A. K. S. SHANMUGANANTHAN, B.E., M.Tech., DTCP RE & RSP - GRADE I (RTD.), GVR., SENGOTTAI MUNICIPALITY - RE - GR - I
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Structural Engineer

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Registered Construction Engineer (RCE)
Registration No. RSE/TVL/0/0/2020
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4/52-A, ARS Street, Vaakal-627 852.
Cell: 7010744060.

Construction Engineer

For NANDA DEVI BIO ENERGY LLP

Partner

Applicant

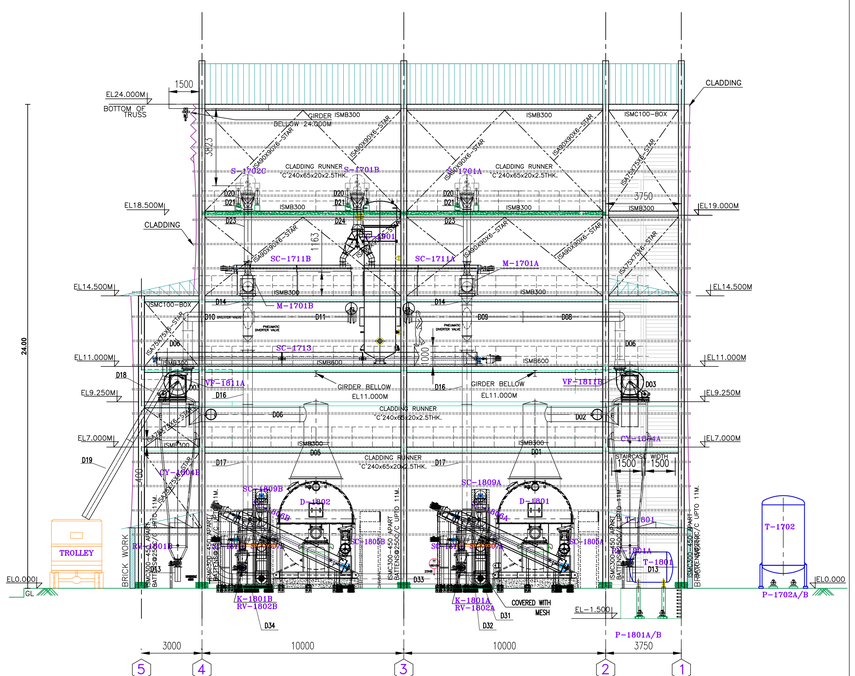
P. BALAVENKATESH, B.Arch.
REGISTERED ARCHITECT GRADE I
Regn. No. RA-01/TVL/March/2016/018
Flat, Periyar Nagar, Vallur,
North Highground Road, Palayamkottai,
Tirunelveli - 627 002.

Registered Engineer/ Architect

Sheet No:8

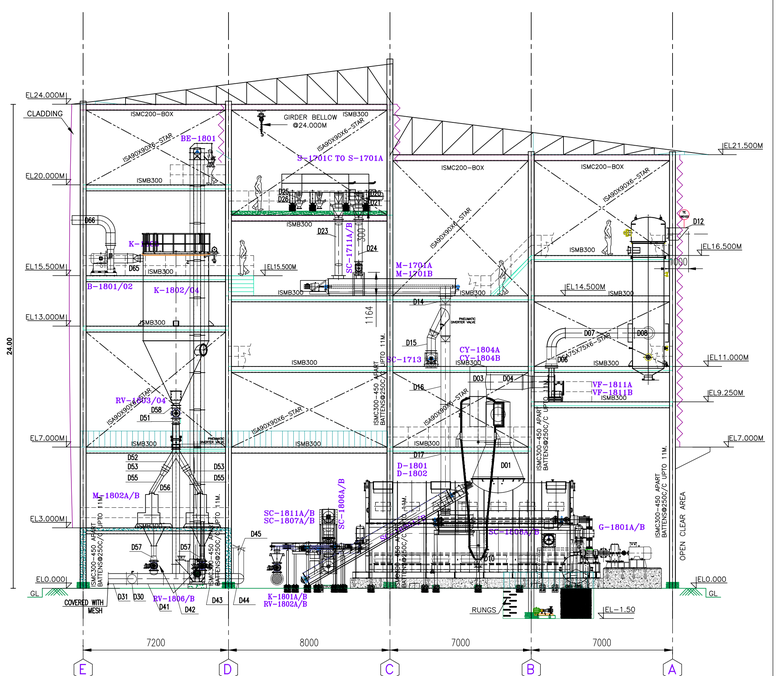
04	2024
02	01 2024

Dryer & Decantation Section & DDGS Godown BLOCK NO:6

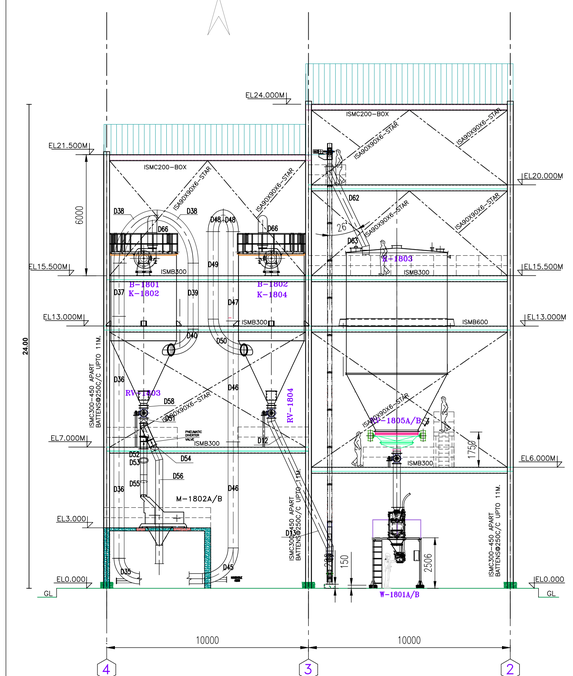


VIEW FROM 180°

(WITHOUT BAG FILTER & SILO)



VIEW FROM 90° (WITHOUT SILO)



VIEW FROM 180°

(BAG FILTER & SILO)

PLAN SHOWING THE PROPOSED CONSTRUCTION OF

& INSTALLATION OF 10251.67 HP ELECTRIC 1500 KVA GENERATOR, IN

"NANDA DEVI BIOENERGY LLP BUILDING " FOR PLOT NO:C-107, C-108, C-109, C-110,

C-111, C-112 & C-113, TECHNICAL SANCTION REG L.P./TVL/D.T.C.P.NO: S.W.P./45 /2023

IN THIS MAP REVISES LP/DTCP NO: 54/2013 (WHICH REVISED LP/DTCP NO: 47/2010),

GANGAIKONDAN SIP- COT INDUSTRIAL GROWTH CENTER, SURVEY NO:1641 (PART),

GANGAIKONDAN PANCHAYAT,GANGAIKONDAN VILLAGE, MANUR PANCHAYAT UNION,

TIRUNELVELI TALUK, TIRUNELVELI DISTRICT.

Scale 1:100 All Dimensions are in Metre BLOCK NO:6

RED CATEGORY Dryer & Decantation Section & DDGS Godown

AREA DETAILS:-	FSI	Non-FSI	Total
PRO.GROUND FLOOR AREA	1490.47	----	1490.47
PRO.FIRST FLOOR AREA	689.71	----	689.71
PRO.SECOND FLOOR AREA	689.71	----	689.71
PRO.THIRD FLOOR AREA	605.79	----	605.79
PRO.FOURTH FLOOR AREA	282.58	----	282.58
PRO.HEAD ROOM AREA	26.68	----	26.68
TOTAL AREA (BLOCK NO:6)	3758.26	26.68	3784.94

Legends :

PRO. BUILDING

Note:

Waste Water Used for Garden

Rain Water harvesting Details Provided

Solar System Water tank provided

Fire Resistance to be provided

Emergency alarm to be provided

Drinking water to be provided as per corporation norms

Rain water harvesting tank to be provided

Waste water from recycled water tank & French connected to sathuje disposal tank

Solid waste Ash to be Provided

U traps provided in septictank to prevent curb breeding of mosquitoes

(As per G.O.(Ms) by : 243 - dated: 03.11.2004)

DECANTATION DWGS DRYER AND DCC SECTION ELECTRICAL LOAD DETAILS

Sl.No	Equipment Name	Quantity	Rating	Operation load HP	Stand by load HP	Connected Load HP
	1)RIBBON MIXER	2	7.5	15	0	15
	2)THIN SLAP TRANSFER PUMP	2(1W+1 S)	30	30	30	60
	3)WET CAKE CONVEYING SCREW FOR DECANTER	2	5	10	0	10
	4)WET CAKE CONVEYING SCREW FOR RIBBON MIXER	1	10	10	0	10
	5)CONVEYER CENTRIFUGE MOTOR	3(2W+1 S)	60	120	60	180
	6)MOTOR FOR AIR COMPRESSOR	2(1W+1 S)	15	15	15	30
	7)MOTOR FOR CONVEYING BLOWER	1	60	60	0	60
	8)MOTOR FOR CONVEYING BLOWER	1	60	60	0	60
	9)MOTOR FOR BIN ACTIVATOR	2	2.1	4.2	0	4.2
	10)MOTOR FOR DRYER	1	167.5	167.5	0	167.5
	11)MOTOR FOR DRYER	1	167.5	167.5	0	167.5
	12)MOTOR FOR STEAM CONDENSATE PUMP	2(1W+1 S)	20	20	20	40
	13)MOTOR FOR CYCLON ROTARY VALVE	2	1.5	3	0	3
	14)MOTOR FOR ROTARY VALVE OF ABSOLNUT HOPPER	2	2	4	0	4
	15)MOTOR FOR ROTARY VALVE BELOW PRODUCT COLLECTOR (K-1804)	1	3	3	0	3
	16)MOTOR FOR ROTARY VALVE BELOW PRODUCT COLLECTOR (K-1804)	1	3	3	0	3
	17)MOTOR FOR ROTARY VALVE BELOW PULVERISER M-1803 A	2	2	4	0	4
	18)MOTOR FOR ROTARY VALVE BELOW DDGS SILO	2	3	6	0	6
	19)MOTOR FOR HAUL OFF SCREW	2	7.5	15	0	15
	20)MOTOR FOR DISCHARGE SCREW	2	10	20	0	20
	21)MOTOR FOR DOSING SCREW	2	7.5	15	0	15
	22)MOTOR FOR FEED SCREW	2	7.5	15	0	15
	23)MOTOR FOR CONVEYING SCREW	2	10	20	0	20
	24)MOTOR FOR PRODUCT CONVEYING SCREW	2	3	6	0	6
	25)MOTOR FOR DOUBLE SHAFT MIXER	2	15	30	0	30
	26)MOTOR FOR DOUBLE SHAFT MIXER	2	15	30	0	30
	27)MOTOR FOR VAPOR FAN	2	50	100	0	100
	28)CONTROL PANEL FOR BAGGING MACHINE	2	3	6	0	6
	29)MOTOR FOR PULVERISER	2	75	150	0	150
	30)BUCKET ELEVATOR	1	3	3	0	3
	31)FLASH TRANSFER PUMP	2(1W+1 S)	75	75	75	150
	32)DCC BOTTOM TRANSFER PUMP	2(1W+1 S)	75	75	75	150
	TOTAL			1251.2	265	1516.2

Office Use

Structural Engineer

Construction Engineer

For NANDA DEVI BIO ENERGY LLP

Partner

Applicant

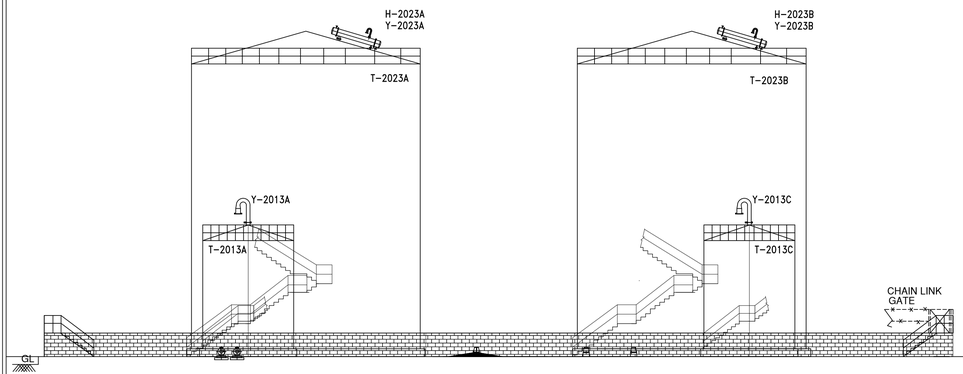
Registered Engineer/ Architect

Sheet No-9

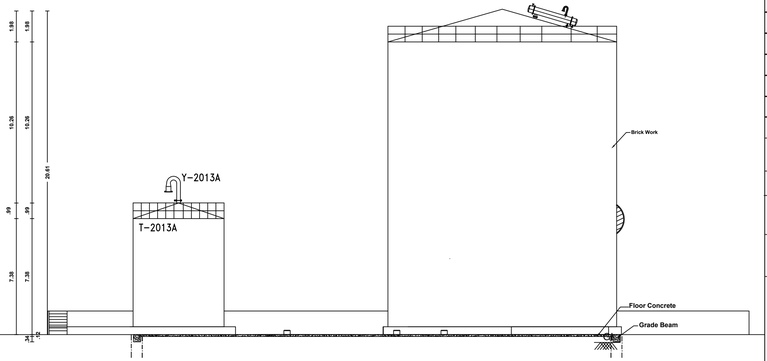
04 2024

02|01|2024

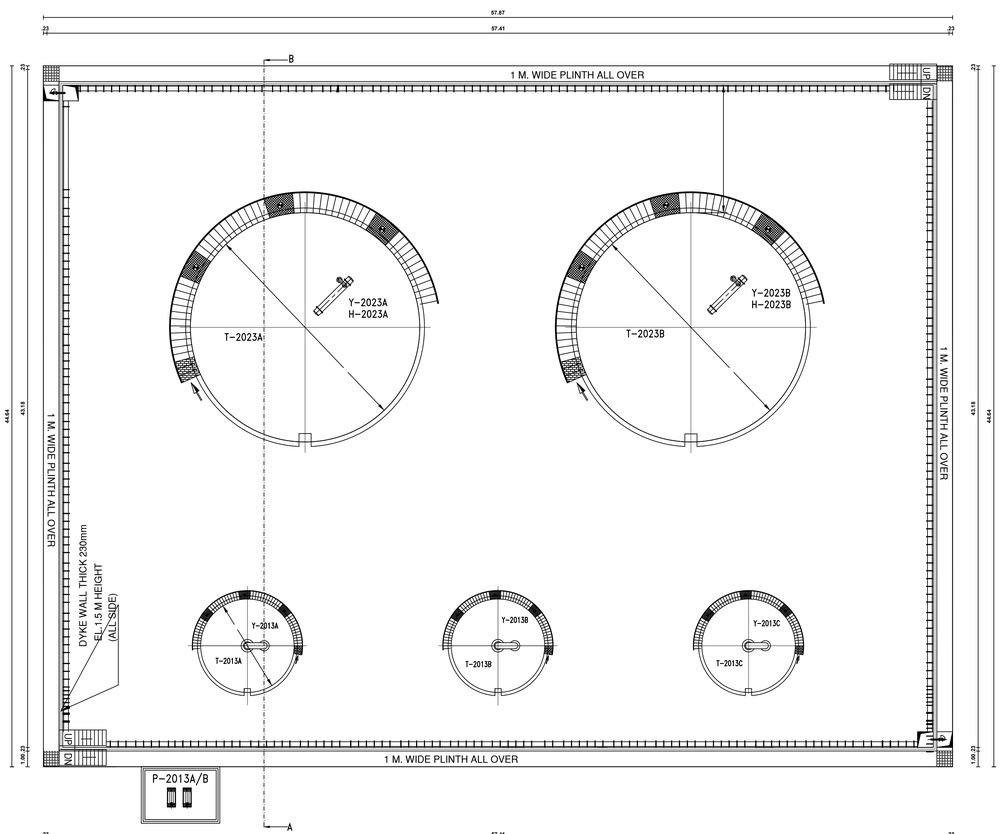
BLOCK NO:7 Product Storage Section



ELEVATION BLOCK NO:7



SECTION "AB" BLOCK NO:7



GROUND FLOOR PLAN BLOCK NO:7

PLAN SHOWING THE PROPOSED CONSTRUCTION OF & INSTALLATION OF 10251.67 HP ELECTRIC 1500 KVA GENERATOR, IN "NANDA DEVI BIOENERGY LLP BUILDING " FOR PLOT NO:C-107, C-108, C-109, C-110, C-111, C-112 & C-113, TECHNICAL SANCTION.REG L.P./TVL/D.T.C.P.NO: S.W.P./45 /2023 IN THIS MAP REVISES LP/DTCP NO: 54/2013 (WHICH REVISED LP/DTCP NO: 47/2010), GANGAIKONDAN SIP- COT INDUSTRIAL GROWTH CENTER, SURVEY NO:1641 (PART), GANGAIKONDAN PANCHAYAT,GANGAIKONDAN VILLAGE, MANUR PANCHAYAT UNION, TIRUNELVELI TALUK, TIRUNELVELI DISTRICT.

Scale 1:100 All Dimensions are in Metre BLOCK NO:7

RED CATEGORY Product Storage Section

AREA DETAILES:-	FSI	Non-FSI	Total
PRO.GROUND FLOOR AREA (BLOCK NO:7)	2582.84	---------	2582.84

JOINERY DETAILS:-

R.S - Rolling Shutter 3.06 x 2.10

D - Door 1.20 x 2.10

Legends :

PRO. BUILDING

Note:

Waste Water Used for Garden

Rain Water harvesting Details Provided

Solar System Water tank provided

Fire Resistance to be provided

Emergency alarm to be provided

Drinking water to be provided as per corporation norms

Rain water harvesting tank to be provided

Waste water from recycled water tank & Trench connected to sattage disposal tank

Solid waste bib to be Provided

'U' traps provided in septictank to prevent curb breeding of mosquitoes (As per G.O (M.S) No : 341 - dated 03.11.2004)

ETHANOL STORAGE SECTION ELECTRICAL LOAD DETAILS

Sl.No	Equipment Name	Quantity	Rating HP	Operation load HP	Stand by load HP	Connected Load HP
1	AA TRANSFER CUM ISSUE PUMP	2(1W+1S)	20	20	20	40
2	IS TRANSFER PUMP	2(1W+1S)	5	5	5	10
3	PO TRANSFER PUMP	1	3	3	0	3
4	COOLING WATER CIRCULATION PUMP	1	7.5	7.5	0	7.5
	TOTAL			35.5	25	60.5

Office Use

Dr.S.ANANDAKUMAR, B.E. M.Tech. M.Sc. Ph.D.
Registered Construction Engineer (RCE)
Registration No. RCE/TVL/S/04/2020
The View Associates
4/10-A, ARS Street, Idaikal-627 706,
Cell: 7010744068.

Construction Engineer

Structural Engineer

For NANDA DEVI BIO ENERGY LLP

Partner

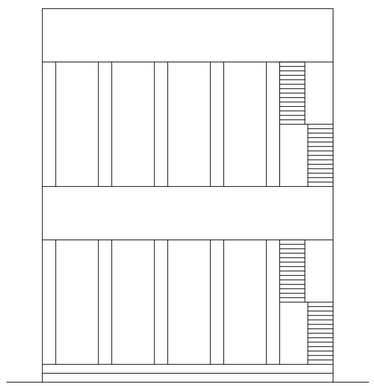
Applicant

P. BALAVENKATESH, B.Arch.
REGISTERED ARCHITECT | GRADE I
Regn. No. RA-C/1711/2016/TVL, Mob:9659659918
12A, Periyar Nagar, Tenkasi,
North Highground Road, Palavanatham,
Tirunelveli - 627 002.

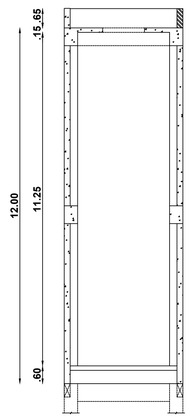
Registered Engineer/ Architect

Sheet No:10
04.2024
02(01)2024

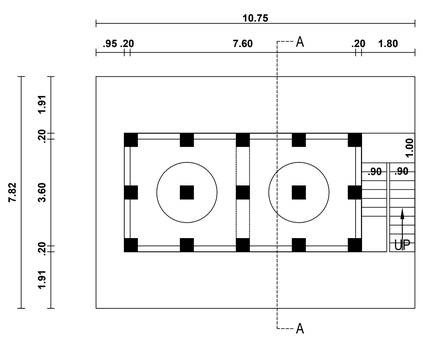
BLOCK NO:8
Cooling Tower Fermentation



ELEVATION **BLOCK NO:8**



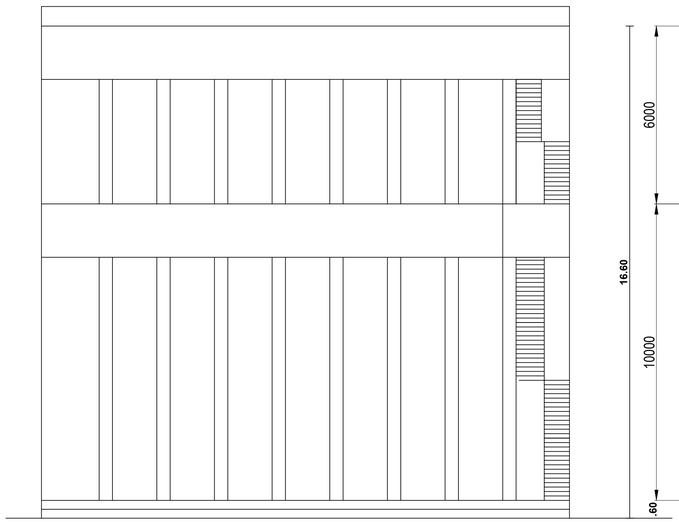
SECTION-AA
BLOCK NO:8



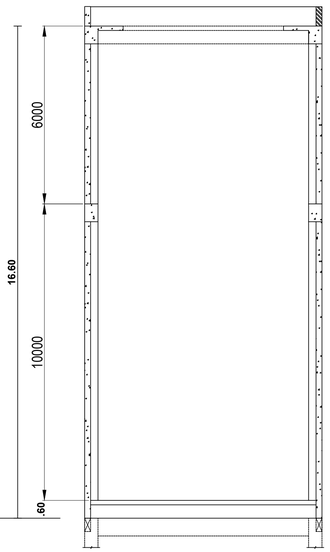
GROUND FLOOR PLAN **BLOCK NO:8**

Cooling Tower Fermentation

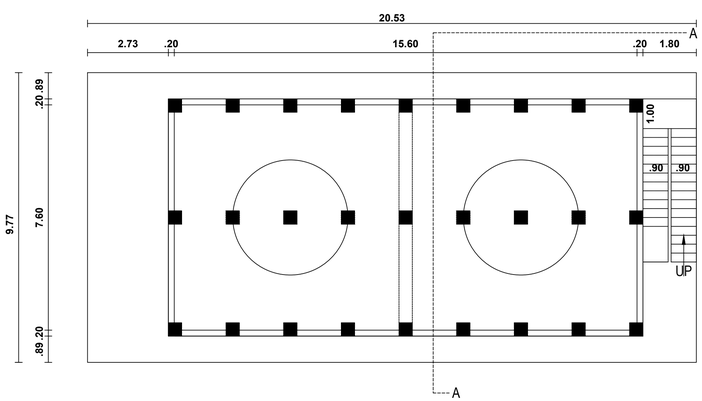
BLOCK NO:9
Cooling Tower Disti + MSDH +EVAP + Liquef



ELEVATION **BLOCK NO:9**



SECTION-AA
BLOCK NO:9



GROUND FLOOR PLAN **BLOCK NO:9**

Cooling Tower Disti + MSDH + EVAP + Liquef

PLAN SHOWING THE PROPOSED CONSTRUCTION OF & INSTALLATION OF 10251.67 HP ELECTRIC 1500 KVA GENERATOR, IN "NANDA DEVI BIOENERGY LLP BUILDING " FOR PLOT NO:C-107, C-108, C-109, C-110, C-111, C-112 & C-113, TECHNICAL SANCTION.REG L.P./TVL/D.T.C.P.NO: S.W.P./45 /2023 IN THIS MAP REVISES LP/DTCP NO: 54/2013 (WHICH REVISED LP/DTCP NO: 47/2010), GANGAIKONDAN SIP- COT INDUSTRIAL GROWTH CENTER, SURVEY NO:1641 (PART), GANGAIKONDAN PANCHAYAT,GANGAIKONDAN VILLAGE, MANUR PANCHAYAT UNION, TIRUNELVELI TALUK, TIRUNELVELI DISTRICT.

Scale 1:100 All Dimensions are in Metre **BLOCK NO:8,9**

RED CATEGORY Cooling Tower Fermentation Cooling Tower Disti + MSDH + EVAP + Liquef

AREA DETAILES:-

PRO.GROUND FLOOR AREA	FSI	Non -FSI	Total
Block-8 Area	84.07	------	84.07
Block-9 Area	200.53	------	200.53

Legends :

PRO. BUILDING

JOINERY DETAILS:-

R.S - Rolling Shutter 3.06 x 2.10

D - Door 1.20 x 2.10

UTILITY ELECTRICAL LOAD DETAILS

Sl.No	Equipment Name	Quantity	Rating HP	Operation load HP	Stand by load HP	Connected Load HP
1	FERMENTATION COOLING WATER RECIRCULATION PUMP	3(2W+1S)	100	200	100	300
2	DISTILLATION /LIQUEFACTION COOLING WATER RECIRCULATION PUMP	4(3W+1S)	120	360	120	480
3	MSDH COOLING WATER RECIRCULATION PUMP	2(1W+1S)	120	120	120	240
4	BLOW DOWN TRANSFER PUMP	1	5	5	0	5
	TOTAL			685	340	1025

Note:

Waste Water Used for Garden

Rain Water harvesting Details Provided

Solar System Water tank provided

Fire Resistance to be provided

Emergency alarm to be provided

Drinking water to be provided as per corporation norms

Rain water harvesting tank to be provided

Waste water from recycled water tank & Trench connected to sullage disposal tank

Solid waste tub to be Provided

'U' traps provided in septictank to prevent curb breeding of mosquitoes

(As per G.O (M.S) No : 341 - dated 03.11.2004)

Office Use

Dr.R.ANANDAKUMAR, B.E., M.Tech.M.Sc., Ph.D.,
Registered Construction Engineer (RCE)
Registration No: RSE/TVLR/04/2020
The View Associates
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Cell: 7010744060

Construction Engineer

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Off: ☎ 04633-210237 Cell: 93605 88344

Structural Engineer

For NANDA DEVI BIO ENERGY LLP

Partner

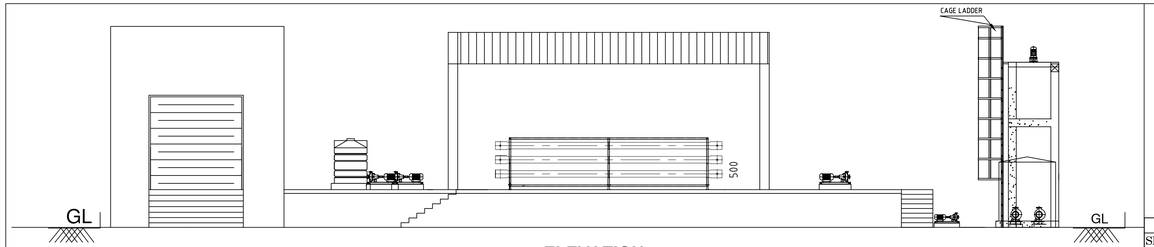
Applicant

P. BALAVENKATESH, B.Arch.
REGISTERED ARCHITECT GRADE I
Regn. No. 8A/GI-I/TVL/March/2019-018
1/6, Periyar Nagar Salai,
North Highground Road, Palayamkottai,
Tirunelveli - 627 002.

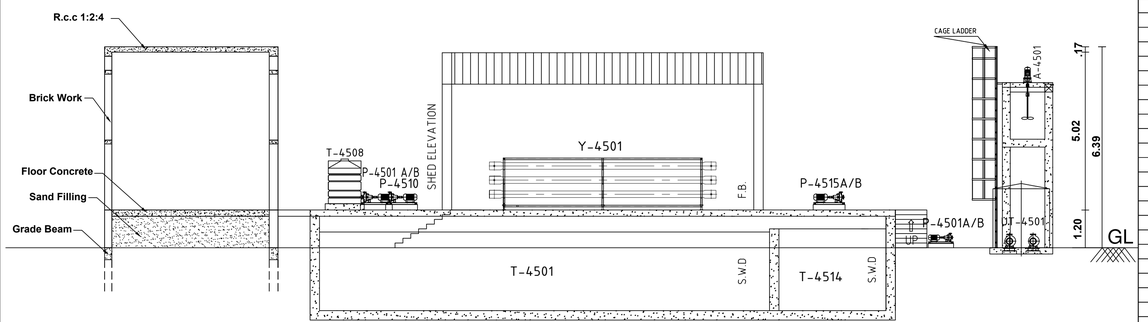
Registered Engineer/ Architect

Sheet No-11

04	2024	
02	01	2024



ELEVATION BLOCK NO:10



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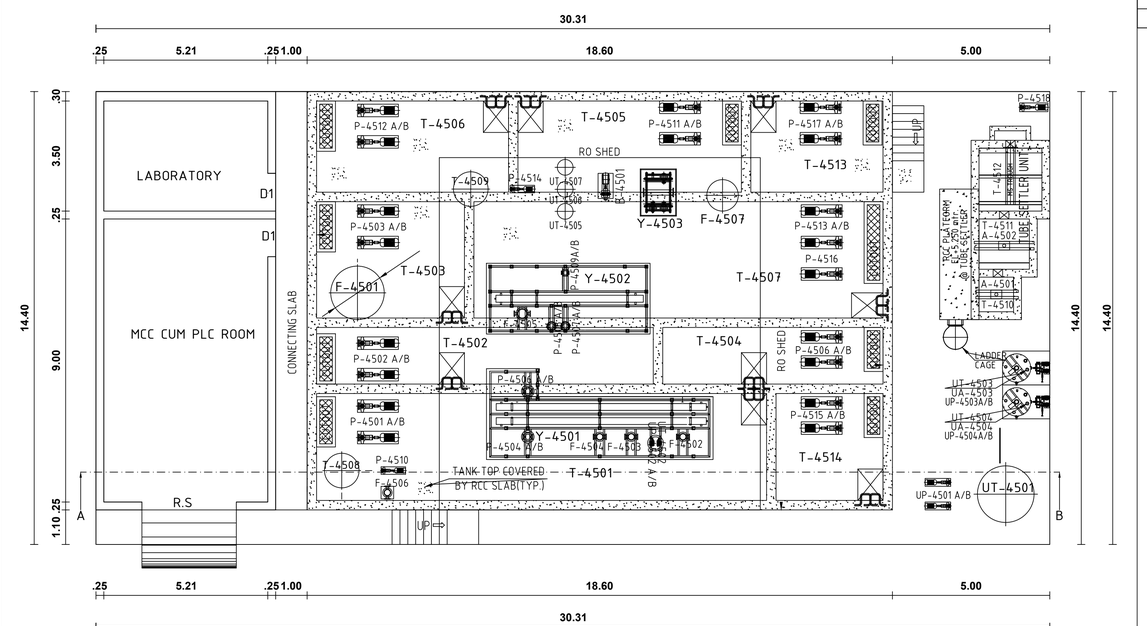


GROUND FLOOR PLAN BLOCK NO:10

BLOCK NO:10

Disti PCTP

PCTP ELECTRICAL LOAD DETAILS

Sl.No	Equipment Name	Quantity	Rating HP	Operation load HP	Stand by load HP	Connected Load HP
1	Equilization Tank Transfer Pump	2(1W+1S)	5	5	5	10
2	Filter Feed Pump	2(1W+1S)	10	10	10	20
3	Feed RO Priming Pump	2(1W+1S)	12.5	12.5	12.5	25
4	Feed RO High Pressure Pump	2(1W+1S)	40	40	40	80
5	Feed RO Booster Pump	2(1W+1S)	3	3	3	6
6	Reject RO Priming Pump	2(1W+1S)	5	5	5	10
7	Reject RO High PressurePump-I	2(1W+1S)	10	10	10	20
8	Reject RO High Pressure Pump-II	2(1W+1S)	10	10	10	20
9	Reject RO Booster Pump	2(1W+1S)	2	2	2	4
10	RO CIP Pump	1	12.5	12.5	0	12.5
11	Backwash Transfer Pump	2(1W+1S)	2	2	2	4
12	RO Reject Transfer Pump	2(1W+1S)	3	3	3	6
13	RO Permeate transfer Pump	2(1W+1S)	5	5	5	10
14	UF CIP Pump	1	5	5	0	5
15	UF Backwash Pump	2(1W+1S)	5	5	5	10
16	Filter Backwash Pump	1	20	20	0	20
17	UF Feed Pump	2(1W+1S)	5	5	5	10
18	Sludge Transfer Pump	1	3	3	0	3
19	Air Blower fo UF	1	2	2	0	2
20	Alkali Dosing Pump	2(1W+1S)	0.24	0.24	0.24	0.48
21	Antiscalant Dosing Pump For Feed RO	1	0.24	0.24	0	0.24
22	Antiscalant Dosing Pump For Reject RO	1	0.24	0.24	0	0.24
23	FeCl3 Dosing Pump	2(1W+1S)	0.24	0.24	0.24	0.48
24	Poly Dosing Pump	2(1W+1S)	0.24	0.24	0.24	0.48
25	Alkali Dosing Pump for UF	2(1W+1S)	0.24	0.24	0.24	0.48
26	Acid Dosing Pump for UF	2(1W+1S)	0.24	0.24	0.24	0.48
27	Hypo Dosing Pump for UF	2(1W+1S)	0.24	0.24	0.24	0.48
28	Agitator for Flash Mixer	1	0.5	0.5	0	0.5
29	Agitator for Flocculator	1	0.5	0.5	0	0.5
30	Agitator for FeCl3 Dosing Tank	1	0.5	0.5	0	0.5
31	Agitator for Polyeectrolyte Dosing Pump	1	0.5	0.5	0	0.5
	TOTAL			163.92	118.94	282.86

Office Use

PLAN SHOWING THE PROPOSED CONSTRUCTION OF & INSTALLATION OF 10251.67 HP ELECTRIC 1500 KVA GENERATOR, IN "NANDA DEVI BIOENERGY LLP BUILDING " FOR PLOT NO:C-107, C-108, C-109, C-110, C-111, C-112 & C-113, TECHNICAL SANCTION.REG L.P./TVL/D.T.C.P.NO: S.W.P./45 /2023 IN THIS MAP REVISES LP/DTCP NO: 54/2013 (WHICH REVISED LP/DTCP NO: 47/2010), GANGAIKONDAN SIP- COT INDUSTRIAL GROWTH CENTER, SURVEY NO:1641 (PART), GANGAIKONDAN PANCHAYAT,GANGAIKONDAN VILLAGE, MANUR PANCHAYAT UNION, TIRUNELVELI TALUK, TIRUNELVELI DISTRICT.

Scale 1:100 All Dimensions are in Metre

BLOCK NO:10

RED CATEGORY

Disti PCTP

AREA DETAILES:-	FSI	Non -FSI	Total
PRO.GROUND FLOOR AREA	436.45	---------	436.45

JOINERY DETAILS:-

R.S	-	Rolling Shutter	3.06 x 2.10
D	-	Door	1.20 x 2.10

Legends :

PRO. BUILDING

Note:

Waste Water Used for Garden

Rain Water harvesting Details Provided

Solar System Water tank provided

Fire Resistance to be provided

Emergency alarm to be provided

Drinking water to be provided as per corporation norms

Rain water harvesting tank to be provided

Waste water from recycled water tank & Trench connected to sullage disposal tank

Solid waste tub to be Provided

'U' traps provided in septictank to prevent curb breeding of mosquitoes (As per G.O (M.S) No : 341 - dated 03.11.2004)

Structural Engineer

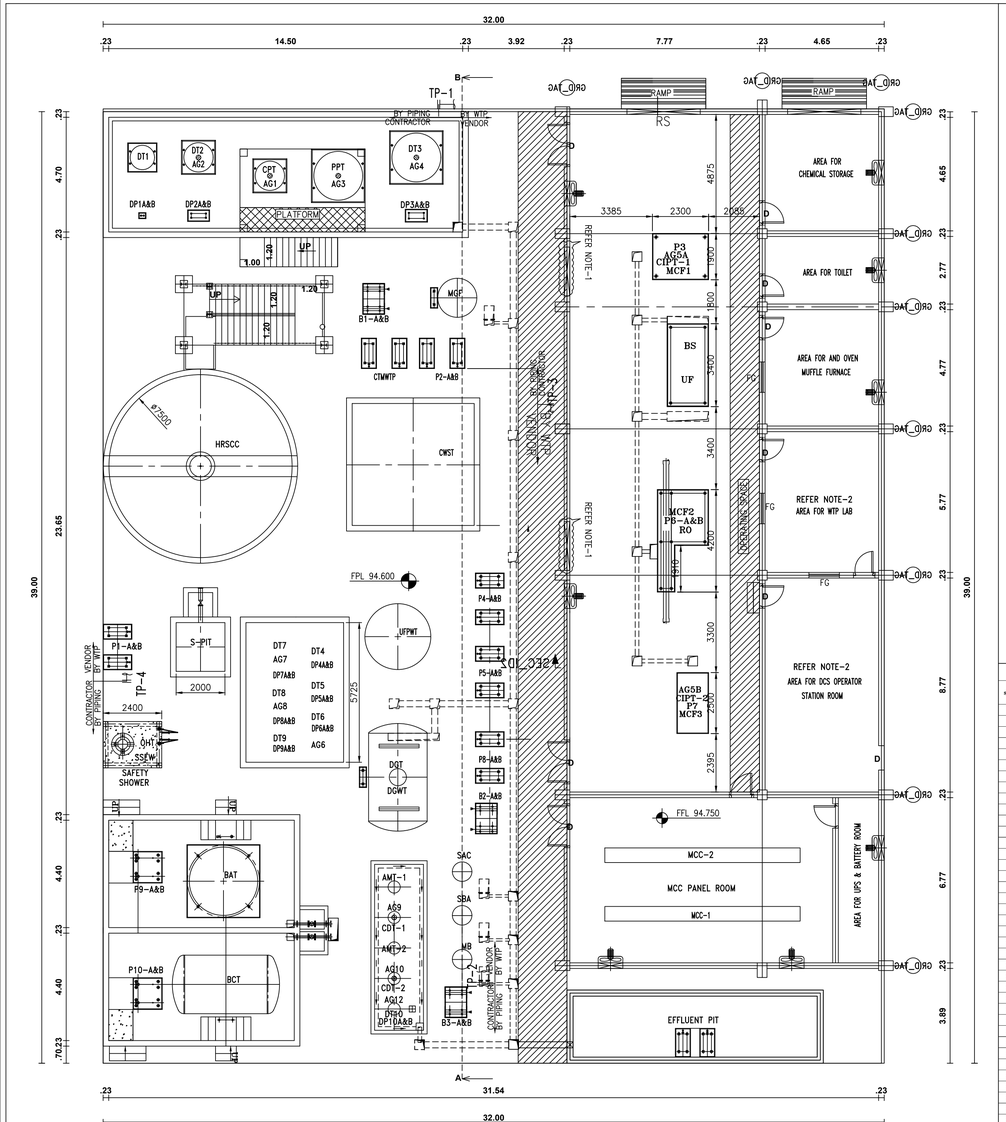
Applicant

Construction Engineer

Registered Engineer/ Architect

Sheet No-12

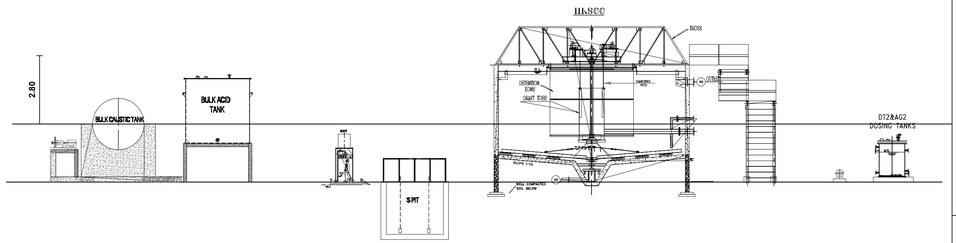
04	2024	
02	01	2024



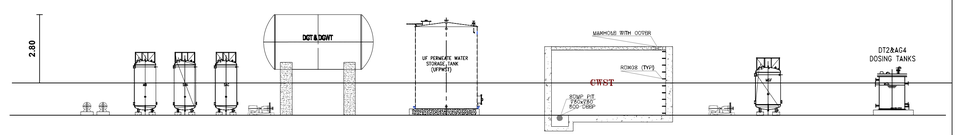
GROUND FLOOR PLAN BLOCK NO:11

BLOCK NO:11

Water Treatment Plant



ELEVATION BLOCK NO:11



SECTION "AB" BLOCK NO:11

WATER TREATMENT PLANT ELECTRICAL LOAD DETAILS

s no	Description of Load	Quantity	HP	Working load in HP	Standby load in HP	Total connected Load HP
1	Sodium Hypochlorite Dosing Pump-A	2(1w+1S)	0.24	0.24	0.24	0.48
2	Coagulant Dosing Pump-A	2(1w+1S)	0.50	0.5	0.5	1
3	Agitator for Coagulant Preparation Tank	1	1.0	1.0	1.0	2
4	Agitator for Coagulant Dosing Tank	1	1.0	1.0	1.0	2
5	Polymer dosing pump - A	2(1w+1S)	0.50	0.5	0.5	1
6	Agitator for Polymer Preparation Tank	1	1.0	1.0	1.0	2
7	Agitator for Polymer Dosing Tank	1	1.0	1.0	1.0	2
8	HRSCC Rake drive motor	1	2	2.0	2.0	4
9	Agitator for HRSCC Turbine	1	3	3	3	6
10	Sludge transfer pump-A	2(1w+1S)	3	3	3	6
11	Filter Feed pump- A	2(1w+1S)	10	10	10	20
12	MGF Air Blower - A	2(1w+1S)	3	3	3	6
13	UF CIP Pump-A	1	10.1	10	10	20
14	Agitator for UF CIP Tank	1	0.5	0.5	0.5	1
15	UF back wash pump - A	2(1w+1S)	12.5	12.5	12.5	25
16	UF Air Blower-A	2(1w+1S)	0.0	0.0	0.0	0
17	HCL Dosing Pump - A (UF CEB-3)	2(1w+1S)	0.5	0.5	0.5	1
18	Sodium Hypochlorite Dosing Pump - A (UF C	2(1w+1S)	0.5	0.5	0.5	1
19	Caustic Dosing Pump - A (UF CEB-2)	2(1w+1S)	0.5	0.5	0.5	1
20	Agitator for caustic dosing tank (UF CEB-2)	1	0.5	0.5	0.5	1
21	RO feed pump-A	2(1w+1S)	7.5	7.5	7.5	15
22	Dechlorination Dosing Pump - A	2(1w+1S)	0.13	0.13	0.1	0
23	Dechlorination Dosing Tank agitator	1	0.5	0.5	0.5	1
24	Antiscalant Dosing Pump - A	2(1w+1S)	0.2	0.2	0.2	0
25	Antiscalant Dosing Tank Agitator	1	0.5	0.5	0.5	1
26	Hydrochloric acid Dosing Pump - A	2(1w+1S)	0.5	0.5	0.5	1
27	RO Chemical cleaning tank agitator	1	2.0	2.0	2.0	4
28	RO chemical cleaning pump	1	10	10	10	20
29	RO high pressure pump - A	2(1w+1S)	75	75	75	150
30	Degasser Air blower -A	2(1w+1S)	0.5	0.5	0.5	1
31	Alkali measuring tank agitator for SBA	1	0.5	0.5	0.5	1
32	DM Feed Pump - A	2(1w+1S)	0.5	0.5	0.5	1
33	Caustic dilution tank agitator for MB	1	0.5	0.5	0.5	1
34	MB air blower-A	2(1w+1S)	5.0	5.0	5.0	10
35	pH dosing pump - A	2(1w+1S)	0.2	0.2	0.2	0
36	pH dosing tank agitator	1	0.5	0.5	0.5	1
37	Effluent Transfer Pump -A	2(1w+1S)	7.5	7.5	7.5	15
38	RO panel power	1	3	3	3	6
39	UF panel power	1	3	3	3	6
40	PLC panel power	1	3	3	3	6
	TOTAL			172.03	172.03	343.38

Note:

Waste Water Used for Garden

Rain Water harvesting Details Provided

Solar System Water tank provided

Fire Resistance to be provided

Emergency alarm to be provided

Drinking water to be provided as per corporation norms

Rain water harvesting tank to be provided

Waste water from recycled water tank & Trench connected to sullage disposal tank

Solid waste tub to be Provided

U' traps provided in septictank to prevent curb breeding of mosquitoes

(As per G.O (M.S) No : 341 - dated 03.11.2004)

Office Use

PLAN SHOWING THE PROPOSED CONSTRUCTION OF & INSTALLATION OF 10251.67 HP ELECTRIC 1500 KVA GENERATOR, IN "NANDA DEVI BIOENERGY LLP BUILDING " FOR PLOT NO:C-107, C-108, C-109, C-110, C-111, C-112 & C-113, TECHNICAL SANCTION.REG L.P./TVL/D.T.C.P.NO: S.W.P./45 /2023 IN THIS MAP REVISES LP/DTCP NO: 54/2013 (WHICH REVISED LP/DTCP NO: 47/2010), GANGAIKONDAN SIP- COT INDUSTRIAL GROWTH CENTER, SURVEY NO:1641 (PART), GANGAIKONDAN PANCHAYAT,GANGAIKONDAN VILLAGE, MANUR PANCHAYAT UNION, TIRUNELVELI TALUK, TIRUNELVELI DISTRICT.

Scale 1:100 All Dimensions are in Metre

BLOCK NO:11

RED CATEGORY

Water Treatment Plant

AREA DETAILS:-	FSI	Non -FSI	Total
PRO.GROUND FLOOR AREA	1248.00	--------	1248.00

JOINERY DETAILS:-

R.S - Rolling Shutter 3.06 x 2.10

D - Door 1.20 x 2.10

Legends :

PRO. BUILDING

Dr.R.ANANDAKUMAR, B.E., M.Tech, M.Sc., Ph.D.,
Registered Construction Engineer (RCE)
Registration No.: RSE/TVLR/04/2020
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Cell: 7010744060

Construction Engineer

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DTCP RE & RSF - GRADE - I (PAVO.,DIV.,)
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Sengottai - 627 809.
Off: ☎ 04633-210237 Cell 93605 88344

Structural Engineer

For NANDA DEVI BIO ENERGY LLP

Partner

Applicant

P. BALAVENKATESH, B.Arch.
REGISTERED ARCHITECT GRADE I
Regn. No. BA-Gr-I/TVL/March/2019/018
1/6, Periyar Nagar Salai,
North Highground Road, Palayamkottai,
Tirunelveli - 627 002.

Registered Engineer/ Architect

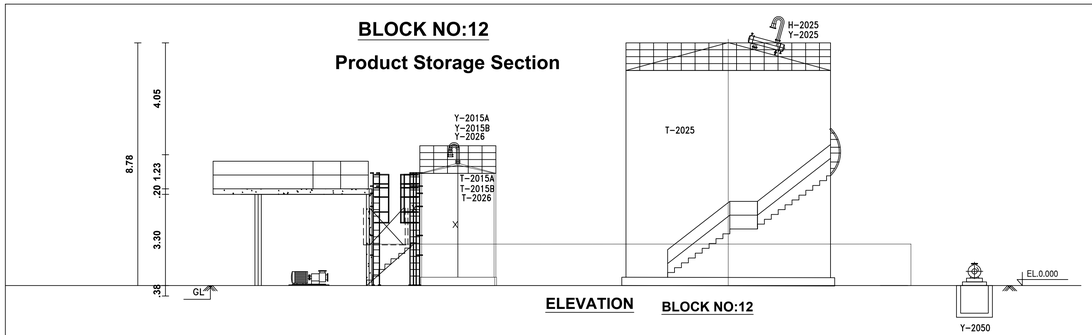
Sheet No-13

04 2024

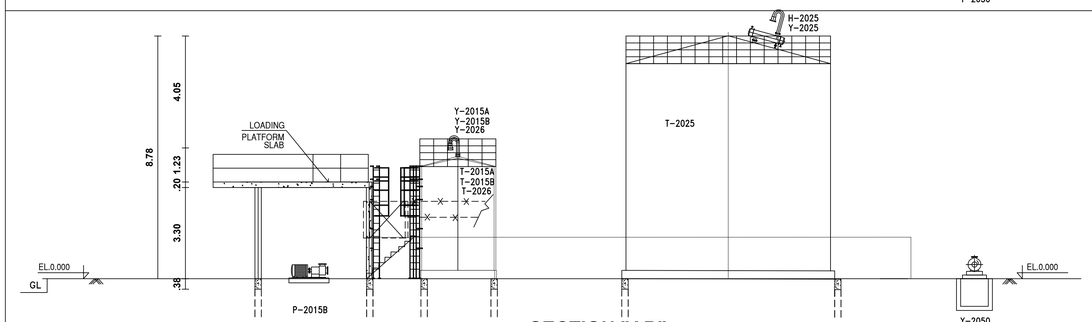
02|01 2024

BLOCK NO:12

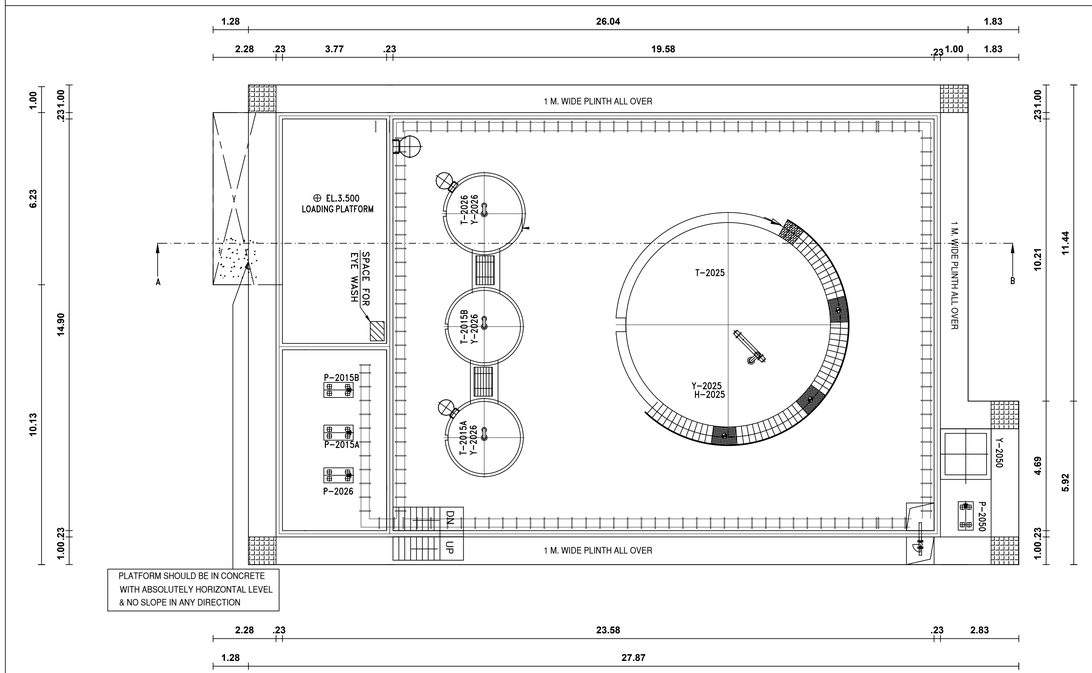
Product Storage Section



ELEVATION BLOCK NO:12



SECTION "AB" BLOCK NO:12



GROUND FLOOR PLAN BLOCK NO:12

PLAN SHOWING THE PROPOSED CONSTRUCTION OF

& INSTALLATION OF 10251.67 HP ELECTRIC 1500 KVA GENERATOR, IN

"NANDA DEVI BIOENERGY LLP BUILDING " FOR PLOT NO:C-107, C-108, C-109, C-110, C-111, C-112 & C-113, TECHNICAL SANCTION.REG L.P./TVL/D.T.C.P.NO: S.W.P./45 /2023 IN THIS MAP REVISES LP/DTCP NO: 54/2013 (WHICH REVISED LP/DTCP NO: 47/2010), GANGAIKONDAN SIP- COT INDUSTRIAL GROWTH CENTER, SURVEY NO:1641 (PART), GANGAIKONDAN PANCHAYAT,GANGAIKONDAN VILLAGE, MANUR PANCHAYAT UNION, TIRUNELVELI TALUK, TIRUNELVELI DISTRICT.

Scale 1:100 All Dimensions are in Metre

BLOCK NO:12

RED CATEGORY

Product Storage Section

AREA DETAILES:-	FSI	Non -FSI	Total
PRO.GROUND FLOOR AREA	470.77	---------	470.77

JOINERY DETAILS:-

R.S	-	Rolling Shutter	3.06 x 2.10
D	-	Door	1.20 x 2.10

Legends :

PRO. BUILDING

Note:

Waste Water Used for Garden

Rain Water harvesting Details Provided

Solar System Water tank provided

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N

Office Use

Dr.R.ANANDAKUMAR, B.E., M.Tech, M.Sc., Ph.D.,
Registered Construction Engineer (RCE)
Registration No: RSE/TVLR/04/2020
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Cell: 7010744060

Construction Engineer

Er. A.K.BALAVANAMUTHIAH, B.E.,M.Sc.,
DTCP RE & RSP - GRADE - I (RVL/PV),
SENGOTTAI MUNICIPALITY - RE - GR - I
SURYA CONSTRUCTIONS & LAND SURVEYING
487/8,Municipal Complex Bus Stand 1st Floor,
Sengottai - 627 809.
Off: 04633-210237 Cell: 93605 88344

Structural Engineer

For NANDA DEVI BIO ENERGY LLP

Partner

Applicant

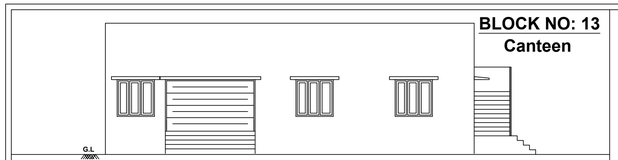
P. BALAVENKATESH, B.Arch.
REGISTERED ARCHITECT GRADE I
Regn. No. RA-Gr-I/TVL/March/2019/018
1/6, Periyar Nagar Salai,
North Highground Road, Palayamkottai,
Tirunelveli - 627 002.

Registered Engineer/ Architect

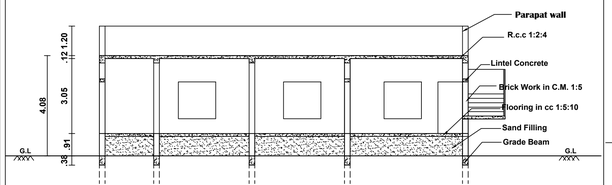
Sheet No-14

04	2024
02 01	2024

BLOCK NO: 13
Canteen



ELEVATION BLOCK NO:13



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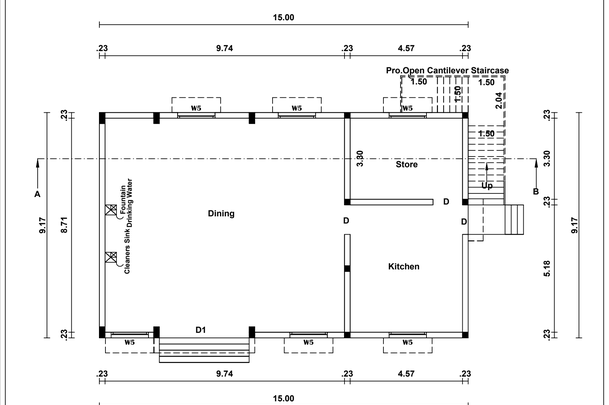
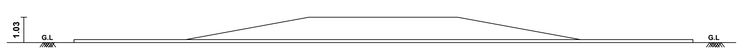


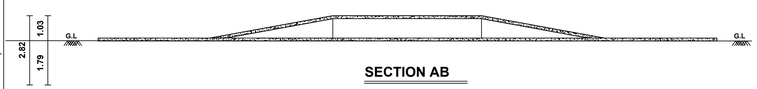
GROUND FLOOR PLAN Canteen BLOCK NO:13

BLOCK NO: 14
Weighing Bridge



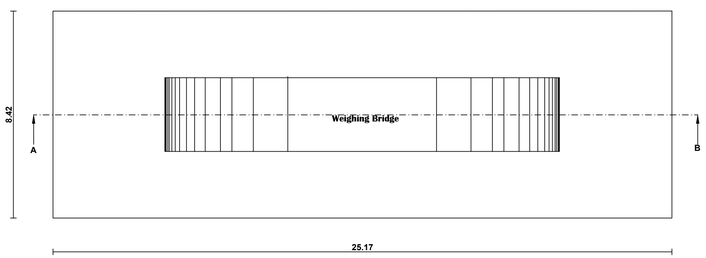
ELEVATION

BLOCK NO:14



SECTION AB

BLOCK NO:14

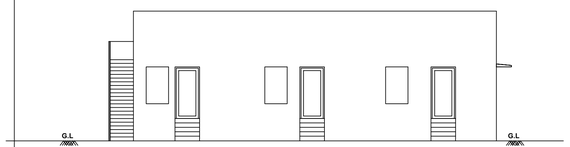


Weighing Bridge

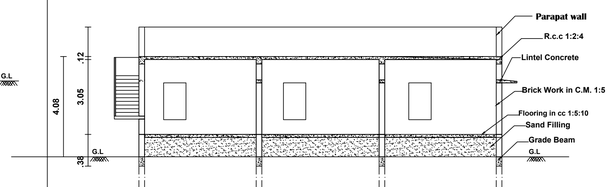
BLOCK NO:14

GROUND FLOOR PLAN

BLOCK NO: 15 Security Office & Time Office & Excise Office



ELEVATION BLOCK NO:15



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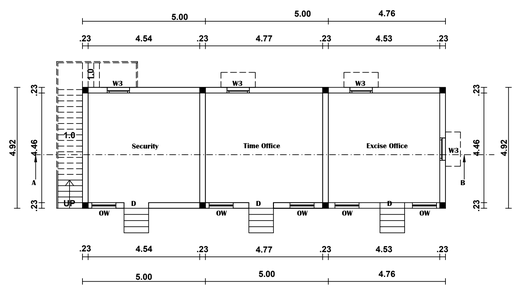

GROUND FLOOR PLAN

BLOCK NO:15

PLAN SHOWING THE PROPOSED CONSTRUCTION OF

& INSTALLATION OF 10251.67 HP ELECTRIC 1500 KVA GENERATOR, IN

"NANDA DEVI BIOENERGY LLP BUILDING " FOR PLOT NO:C-107, C-108, C-109, C-110,

C-111, C-112 & C-113, TECHNICAL SANCTION.REG L.P./TVL/D.T.C.P.NO: S.W.P./45 /2023

IN THIS MAP REVISES LP/DTCP NO: 54/2013 (WHICH REVISED LP/DTCP NO: 47/2010),

GANGAIKONDAN SIP- COT INDUSTRIAL GROWTH CENTER, SURVEY NO:1641 (PART),

GANGAIKONDAN PANCHAYAT,GANGAIKONDAN VILLAGE, MANUR PANCHAYAT UNION,

TIRUNELVELI TALUK, TIRUNELVELI DISTRICT.

Scale 1:100 All Dimensions are in Metre BLOCK NO: 13,14 & 15

RED CATEGORY Canteen, Weigh Bridge Security Office & Time Office & Excise Office

AREA DETAILES:-	FSI	Non -FSI	Total
13) Canteen	137.55	--------	137.55
14) Weighing Bridge	212.00	--------	212.00
15) Security Office & Time Office & Excise Office	72.65	--------	72.65

JOINERY DETAILS:-

D	-	Door	1.20 x 2.10
D1	-	Door	1.20 x 2.10
W3	-	Window	0.90 x 1.20
W5	-	Window	1.50 x 1.20
OW	-	Open Window	0.60 x 1.20

Legends :

PRO. BUILDING

Office Use

Dr.S.SANKARANAR, M.Sc., Ph.D.,
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Senkottai - 627 809.
Off: 04633-210237 Cell : 97905 88344

Structural Engineer

For NANDA DEVI BIO ENERGY LLP

Partner

Applicant

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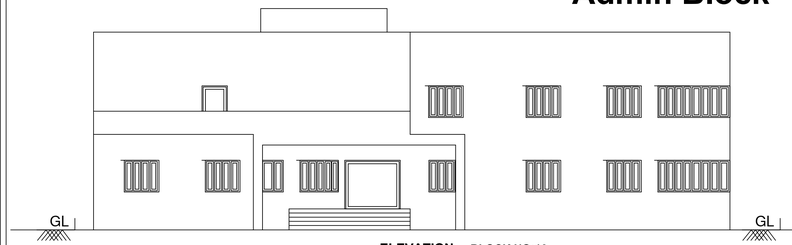
1/6, Periyar Nagar, Tenkasi,
North Highground Road, Palayamkottai,
Tirunelveli - 627 002.

Registered Engineer/ Architect

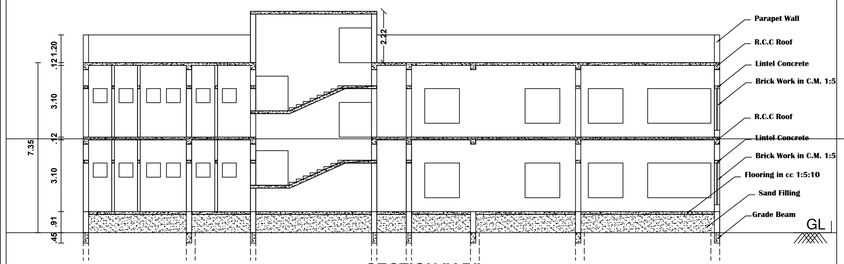
Sheet No-15

04	2024
02	01 2024

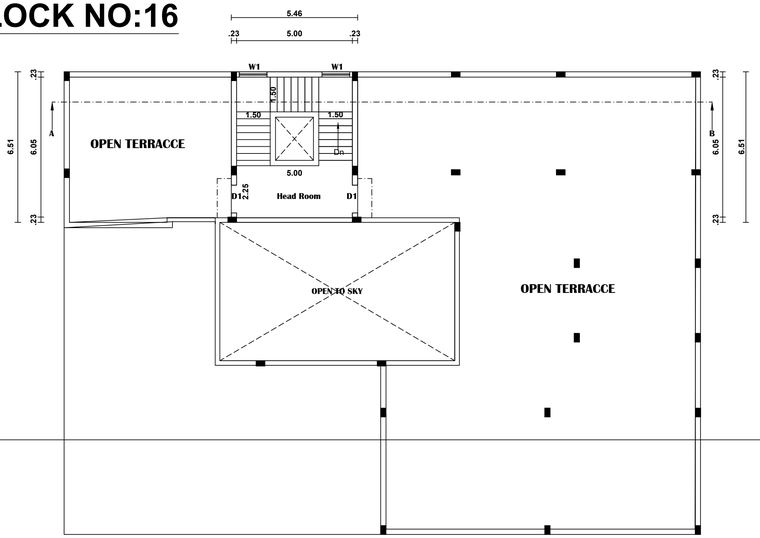
Admin Block BLOCK NO:16



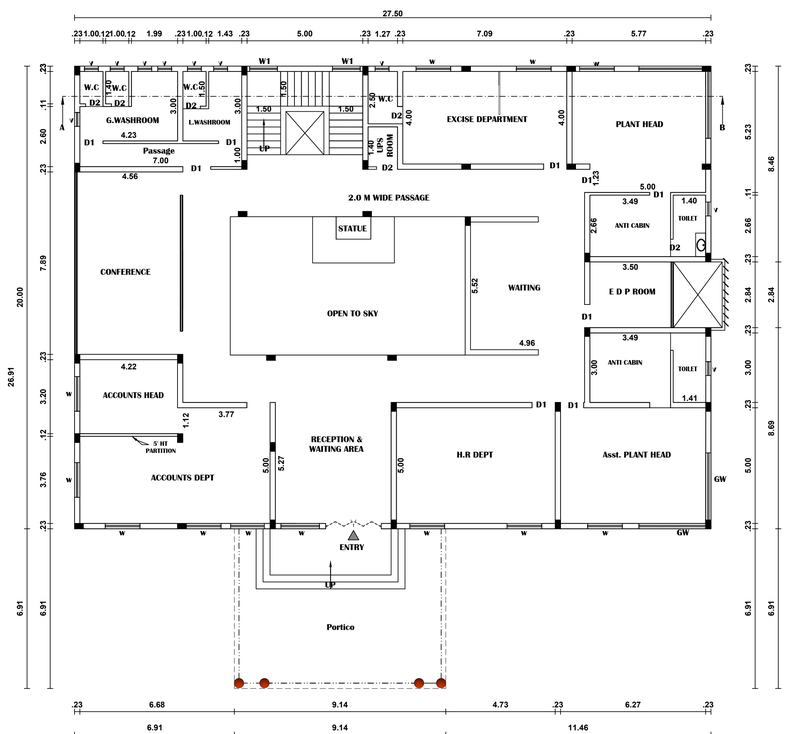
ELEVATION BLOCK NO:16



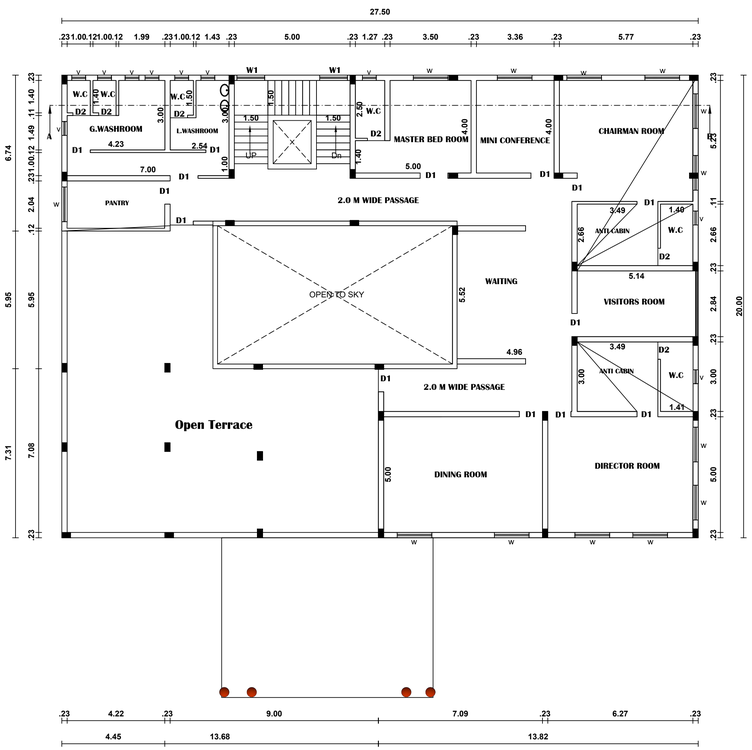
SECTION "AB" BLOCK NO:16



TERRACE FLOOR PLAN BLOCK NO:16



GROUND FLOOR PLAN BLOCK NO:16



FIRST FLOOR PLAN BLOCK NO:16

PLAN SHOWING THE PROPOSED CONSTRUCTION OF & INSTALLATION OF 10251.67 HP ELECTRIC 1500 KVA GENERATOR, IN "NANDA DEVI BIOENERGY LLP BUILDING " FOR PLOT NO:C-107, C-108, C-109, C-110, C-111, C-112 & C-113, TECHNICAL SANCTION.REG L.P./TVL/D.T.C.P.NO: S.W.P./45 /2023 IN THIS MAP REVISES LP/DTCP NO: 54/2013 (WHICH REVISED LP/DTCP NO: 47/2010), GANGAIKONDAN SIP- COT INDUSTRIAL GROWTH CENTER, SURVEY NO:1641 (PART), GANGAIKONDAN PANCHAYAT,GANGAIKONDAN VILLAGE, MANUR PANCHAYAT UNION, TIRUNELVELI TALUK, TIRUNELVELI DISTRICT.

Scale 1:100 All Dimensions are in Metre BLOCK NO:16

RED CATEGORY Admin Block

AREA DETAILES:-	FSI	Non -FSI	Total
PRO.GROUND FLOOR AREA	613.10	--------	613.10
PRO.FIRST FLOOR AREA	350.20	--------	350.20
PRO.HEAD ROOM AREA	--------	36.80	36.80
TOTAL AREA (BLOCK NO:16)	963.30	36.80	1000.10

JOINERY DETAILS:-

R.S - Rolling Shutter 3.06 x 2.10

D - Door 1.20 x 2.10

Note:

Waste Water Used for Garden

Rain Water harvesting Details Provided

Solar System Water tank provided

Fire Resistance to be provided

Emergency alarm to be provided

Drinking water to be provided as per corporation norms

Rain water harvesting tank to be provided

Waste water from recycled water tank & Trench connected to sullage disposal tank

Solid waste tub to be Provided

'U' traps provided in septictank to prevent curb breeding of mosquitoes (As per G.O (M.S) No : 341 - dated 03.11.2004)

Legends :

PRO. BUILDING

Office Use

Dr.R.ANANDAKUMAR, B.E. M.Tech. M.Sc. Ph.D., Registered Construction Engineer (RCE) Registration No: RSE/TVLR/04/2020 The View Associates 4/52-A, ARS Street, Idaikal-627 806, Cell: 7010744060

Construction Engineer

Er. A.K.SHANAVANAMUTHIAH, B.E., M.Tech., DCP, DTCP RE & RSF - GRADE - I SENIOR MUNICIPALITY - RE - GR - I SURYA CONSTRUCTIONS & LAND SURVEYING 187/6,Shanthi Complex Bus Stand 1st Floor, Nanguneri - 627 809, Off: 04633-210237 Cell: 93605 88344

Structural Engineer

For NANDA DEVI BIO ENERGY LLP

Partner

Applicant

P. BALAVENKATESH, B.Arch. REGISTERED ARCHITECT GR.ATC-1 Regn. No. BA-GR-I-TVL/March/2010/018 1/6, Periyar Nagar Salai, North Highground Road, Palaveekottai, Tirunelveli - 627 002.

Registered Engineer/ Architect

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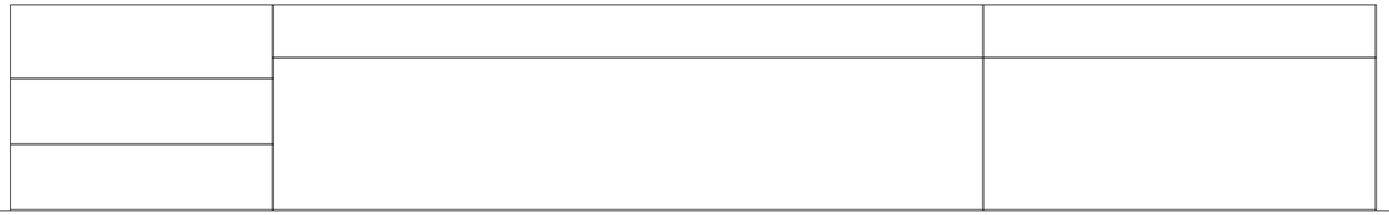
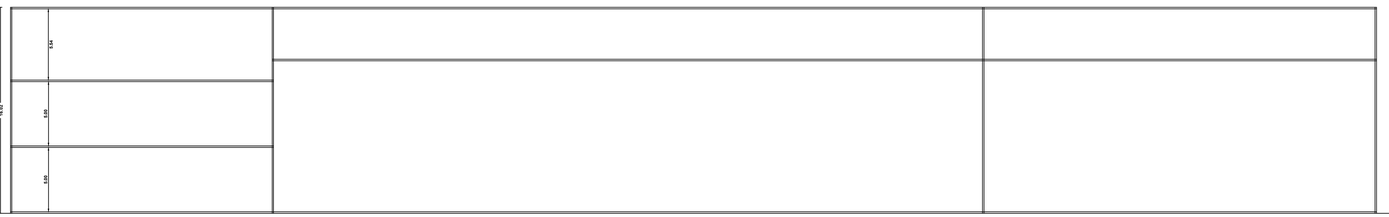
04 2024

02 01 2024

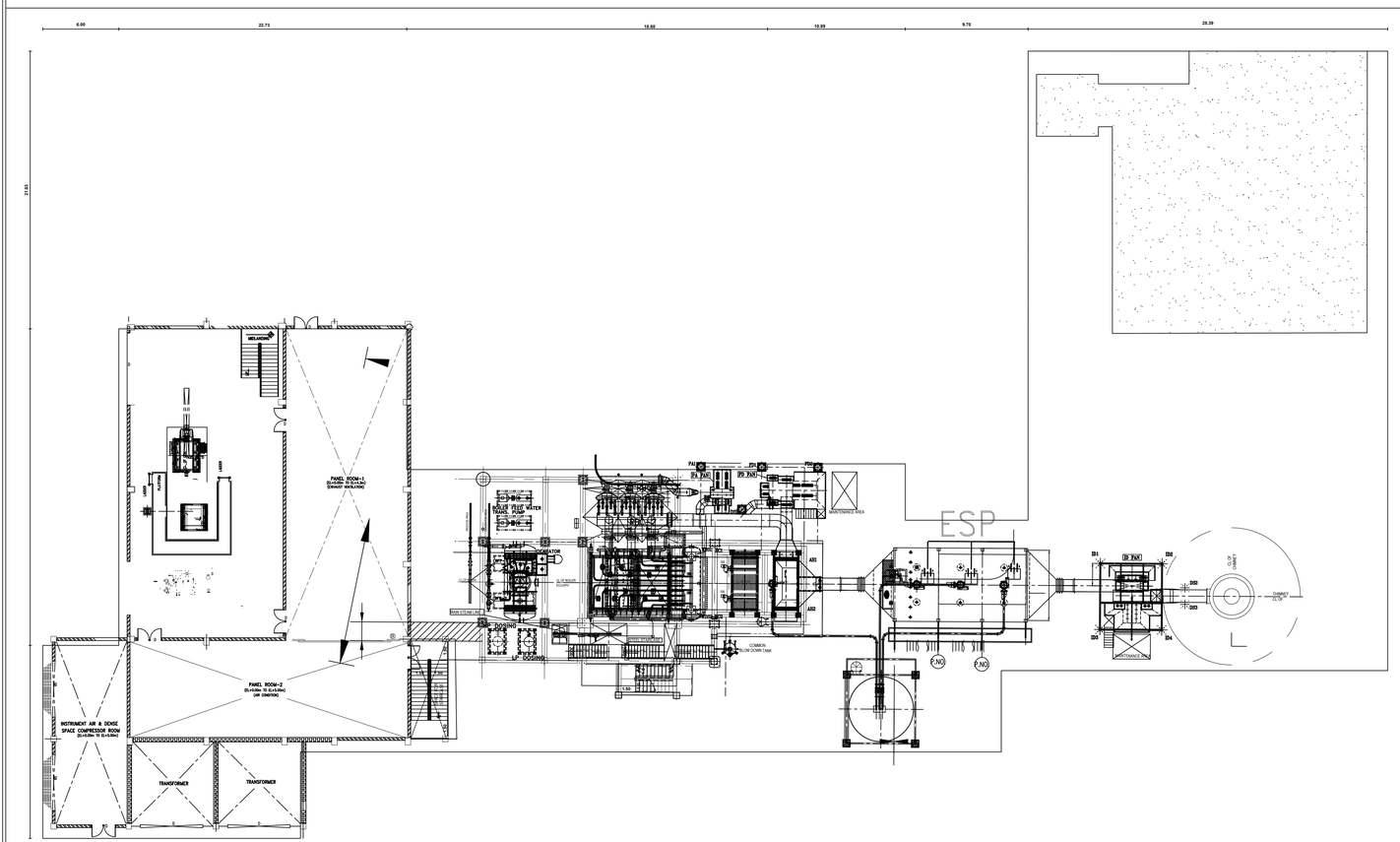
BLOCK:17 TG Building & Boiler & Coal Storage



ELEVATION (Block No: 17)

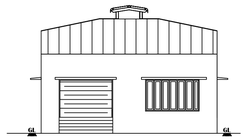


SECTION ON AB (Block No: 17)

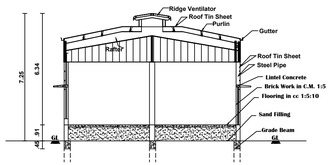

6.00
22.73
18.60
10.89
9.70
28.39
77.93
64.52
6.41
6.00
20.34
55.33
30.01
PANEL ROOM-1 (L=43m TO E=47m) (INHOUSE WORK+TPI)
PANEL ROOM-2 (L=43m TO E=47m) (HR CONSTR)
INSTRUMENT AIR & DENSE SPACE COMPRESSOR ROOM (L=43m TO E=47m)
TRANSFORMER
TRANSFORMER
MCC ROOM
LP ROOM
BOILER FEED WATER PUMP
DEAERATOR
ESP
CHIMNEY
COMMON BOOM DOWN TANK
MAIN STREAM
PA FAN
ID FAN
FD FAN
APH
ECO
SUPERHEATER AREA
ELECTRICAL ROOM
CONTROL ROOM
WELDING
LIFT
STAIRS
LIFT
STAIRS
SUMP
SUMP
SUMP

BLOCK NO:18

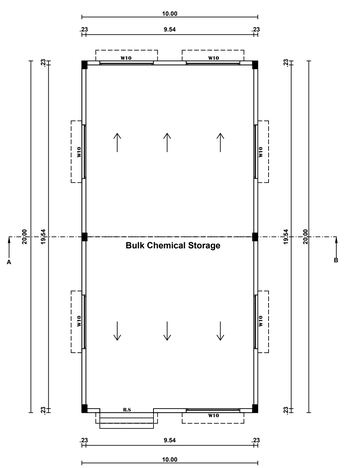
Bulk Chemical Storage



ELEVATION

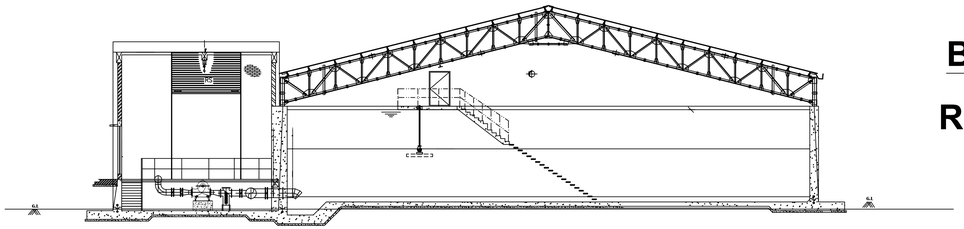


SECTION "AB"

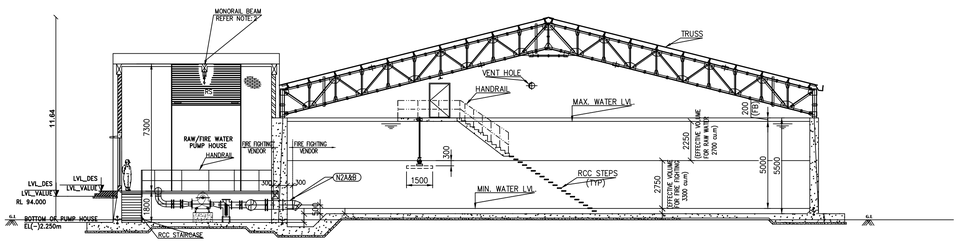

10.00
.23
9.54
.23
W10
W10
W10

BLOCK NO:20

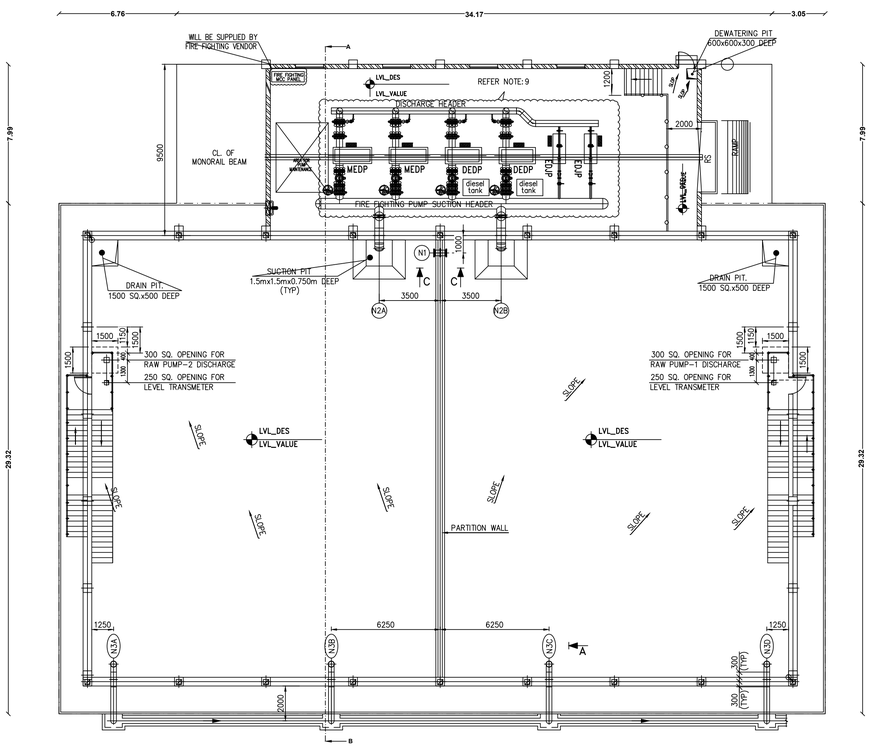
Raw Water Tank



ELEVATION BLOCK NO:20



SECTION "AB" BLOCK NO:20

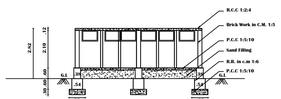


GROUND FLOOR PLAN BLOCK NO:20

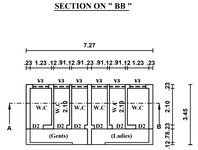
BLOCK NO:21

Toilet

ELEVATION



SECTION ON " BB "

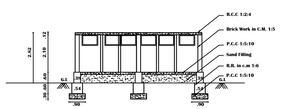


P L A N (Block - 21)

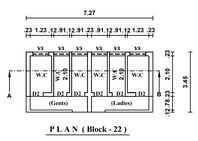
BLOCK NO:22

Toilet

ELEVATION



SECTION ON " BB "



P L A N (Block - 22)

PLAN SHOWING THE PROPOSED CONSTRUCTION OF & INSTALLATION OF 10251.67 HP ELECTRIC 1500 KVA GENERATOR, IN "NANDA DEVI BIOENERGY LLP BUILDING " FOR PLOT NO:C-107, C-108, C-109, C-110, C-111, C-112 & C-113, TECHNICAL SANCTION.REG L.P./TVL/D.T.C.P.NO: S.W.P./45 /2023 IN THIS MAP REVISES LP/DTCP NO: 54/2013 (WHICH REVISED LP/DTCP NO: 47/2010), GANGAIKONDAN SIP- COT INDUSTRIAL GROWTH CENTER, SURVEY NO:1641 (PART), GANGAIKONDAN PANCHAYAT,GANGAIKONDAN VILLAGE, MANUR PANCHAYAT UNION, TIRUNELVELI TALUK, TIRUNELVELI DISTRICT.

Scale 1:100 All Dimensions are in Metre

BLOCK NO:20,21,22

Raw Water Tank | Toilet | RED CATEGORY | Toilet

AREA DETAILES:-

PRO.GROUND FLOOR AREA	FSI	Non -FSI	Total
Block-20 Area	1562.62	------	1562.62
Block-21 Area	25.18	------	25.18
Block-22 Area	25.18	------	25.18

JOINERY DETAILS:-

R.S	-	Rolling Shutter	3.06 x 2.10
D	-	Door	1.20 x 2.10

Note:

Waste Water Used for Garden

Rain Water harvesting Details Provided

Solar System Water tank provided

Fire Resistance to be provided

Emergency alarm to be provided

Drinking water to be provided as per corporation norms

Rain water harvesting tank to be provided

Waste water from recycled water tank & Trench connected to sullage disposal tank

Solid waste tub to be Provided

U' traps provided in septictank to prevent curb breeding of mosquitoes (As per G.O (M.S) No : 341 - dated 03.11.2004)

Raw Water Tank Section Electrical Load

Sl. No.	Description of Load	Quantity	Motor Rating HP	Motor Rating Load HP	Motor Std Load HP	Total Connected load
1	Electrical motor driven main pump	2 (1W+1S)	240	240	240	480
2	Electrical motor driven jockey pump	2 (1W+1S)	40	40	40	80
3	Fire alarm panel in TG building	1	5	5	5	5
4	Fire alarm panel in FCTG & WTP building	1	3.5	3	3	3.5
5	Fire alarm panel in fermentation building	1	3.5	3	3	3.5
6	Deluge valve control panel for transformer-1	1	3.5	3	3	3.5
7	Deluge valve control panel for transformer-2	1	3.5	3	3	3.5
8	Deluge valve control panel for transformer-3	1	3.5	3	3	3.5
9	Deluge valve control panel for transformer-4	1	3.5	3	3	3.5
10	Deluge valve control panel for transformer-5	1	3.5	3	3	3.5
11	Deluge valve control panel for transformer-6	1	3.5	3	3	3.5
12	Deluge valve control panel for SFAVH and Fenix	1	5	5	5	5
13	Raw water Process Pump	2 (1W+1S)	40	40	40	80
	Total			336.5	340	676.5

Legends :

PRO. BUILDING

Office Use

Dr.R.ANANDAKUMAR, B.E., M.Tech, M.Sc., Ph.D.,
Registered Construction Engineer (RCE)
Registration No: RSE/TVL/R.04/2020
The View Associates
4/52-A, ARS Street, Idaikal-627 976,
Cell: 7010744086.

Construction Engineer

Er. A.K. SARAVANAMUTHAN, M.E., M.I.E.,
DTCP RS & SVP - GRADE I (PROV.),
SENGOTTAI MUNICIPALITY - RE - CIR - I,
SURYA CONSTRUCTIONS & LAND SURVEYING
497/8, Municipal Complex Bus Stand 1st Floor,
Sengottai - 627 808.
Off: 04633-212237 Cell: 93605 88344

Structural Engineer

For NANDA DEVI BIO ENERGY LLP
Partner

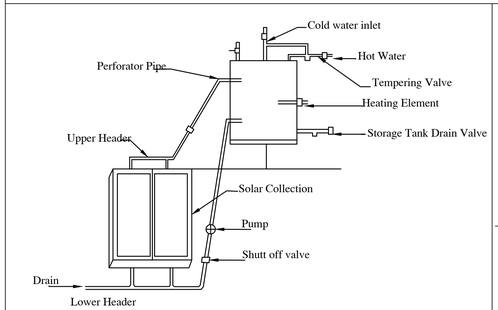
Applicant

P. MALAVENKATESH, B.Arch.
REGISTERED ARCHITECT GRADE I
Regn. No. BA-G-I-TV/, March 20/19/18
116, Periyar Nagar, Salai,
North Highground Road, Palayamkottai,
Tirunelveli - 627 002.

Registered Engineer/ Architect

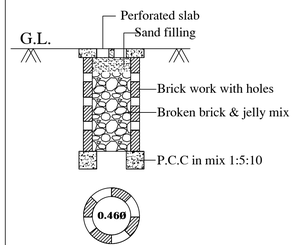
Sheet No-19
04 2024
02/01/2024

PLAN SHOWING THE PROPOSED CONSTRUCTION OF & INSTALLATION OF 10251.67 HP ELECTRIC 1500 KVA GENERATOR, IN "NANDA DEVI BIOENERGY LLP BUILDING " FOR PLOT NO:C-107, C-108, C-109, C-110, C-111, C-112 & C-113, TECHNICAL SANCTION.REG L.P./TVL/D.T.C.P.NO: S.W.P./45 /2023,IN THIS MAP REVISES LP/DTCP NO: 54/2013 (WHICH REVISED LP/DTCP NO: 47/2010),GANGAIKONDAN SIP- COT INDUSTRIAL GROWTH CENTER, SURVEY NO:1641 (PART),GANGAIKONDAN PANCHAYAT,GANGAIKONDAN VILLAGE, MANUR PANCHAYAT UNION,TIRUNELVELI TALUK, TIRUNELVELI DISTRICT.



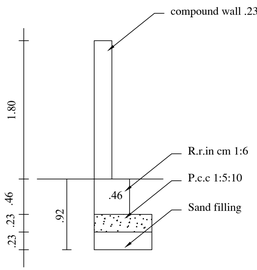
Details Of Solar Water Heater (NTS)

RAINWATER HARVESTING



PERCOLATION PIT FOR 30 Sq. m.

(NOT FOR SCALE)



Compound Wall Detail

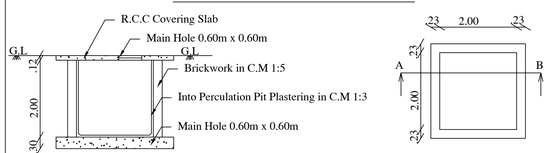
SCALE :(1:50)

(RED CATEGORY)

ALL DIMENSIONS ARE IN METRE

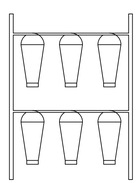
OFFICE USE

FIRE EXTINGUISHER DETAILS



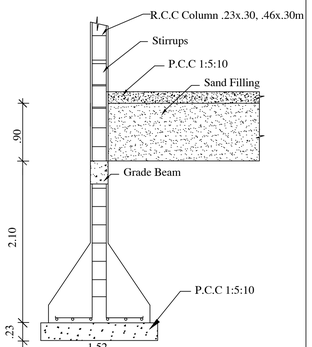
WATER SUMP

Section on AB



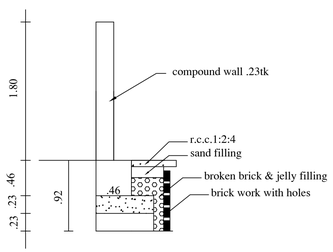
SAND BUCKETS DETAILS

FIRE EXTINGUISHER CYLINDER



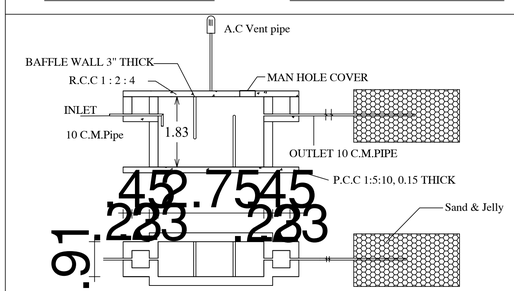
COLUMN DETAIL

SCALE (1:50)

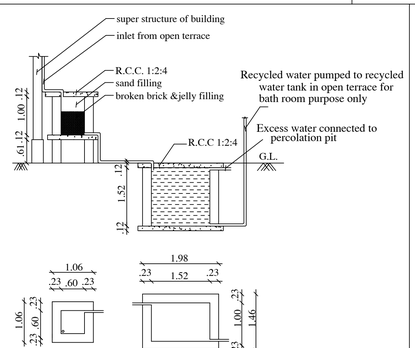


PLINTH BOUNDARY PERCOLATION PIT

SCALE (1:50)



SEPTIC TANK AND TRENCH



Sump and Filter Bed

Note:

Waste Water Used for Garden

Rain Water harvesting Details Provided

Solar System Water tank provided

Fire Resistance to be provided

Emergency alarm to be provided

Drinking water to be provided as per corporation norms

Rain water harvesting tank to be provided

Waste water from recycled water tank & Trench connected to sullage disposal tank

Solid waste tub to be Provided

No Children shall Be Employed

First Aid Box with all Equipment to be provided

APPLICANT

For NANDA DEVI BIO ENERGY LLP

Partner

P. BALAVENKATESH, B.Arch.
REGISTERED ARCHITECT GRADE I
Regn. No. RA-Gr-I/TVL/March/2019-010
1/6, Periyar Nagar Salai,
North Highground Road, Palayamkottai,
Tirunelveli - 627 002.

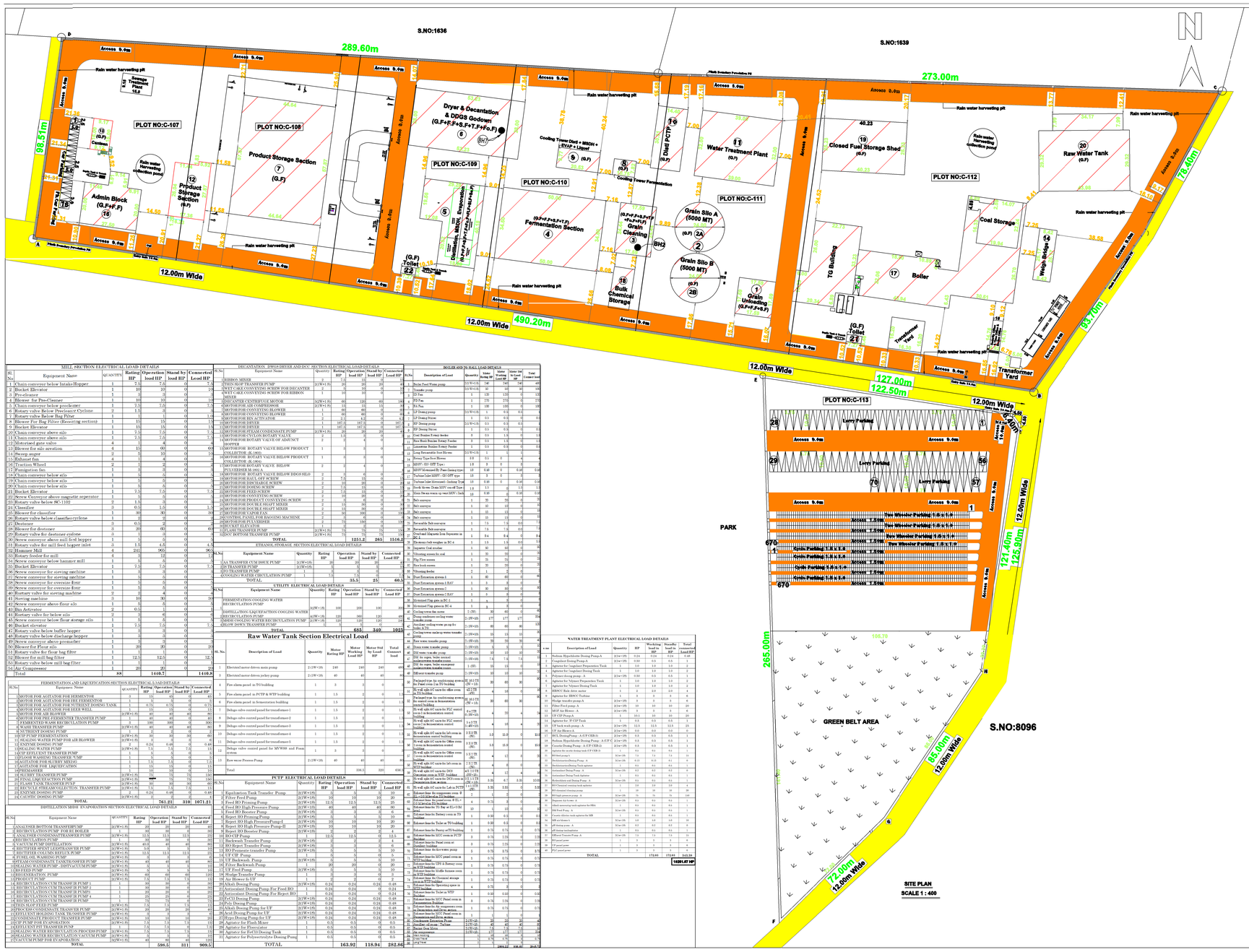
ENGINEER

Sheet No-20

04	2024
02 01	2024

PLAN SHOWING THE AMALGAMATION OF PLOTS & PROPOSED CONSTRUCTION OF & INSTALLATION OF 10251.67 HP ELECTRIC 1500 KVA GENERATOR, IN "NANDA DEVI BIOENERGY LLP BUILDING " FOR PLOT NO:C-107, C-108, C-109, C-110, C-111, C-112 & C-113, TECHNICAL SANCTION.REG L.P./TVL/D.T.C.P.NO: S.W.P./45 /2023 IN THIS MAP REVISES LP/DTCP NO: 54/2013 (WHICH REVISED LP/DTCP NO: 47/2010), GANGAIKONDAN SIP- COT INDUSTRIAL GROWTH CENTER, SURVEY NO:1641 (PART), GANGAIKONDAN PANCHAYAT,GANGAIKONDAN VILLAGE, MANUR PANCHAYAT UNION, TIRUNELVELI TALUK, TIRUNELVELI DISTRICT.

Scale 1:500 All Dimensions are in Metre



Proposed Industrial Building area details: (Red Category)

S.No	Block Name	FSI Area (Sq.m)	Non FSI Area (Sq.m)	Total Built up Area (Sq.m)
1.00	Block – 1 Grain Unloading			
	Ground Floor	294.28	-	294.28
	First Floor	294.28	-	294.28
	Second Floor	117.44	-	117.44
	Head Room	-	15.30	15.30
2.00	Block – 2 Grain Silo A & B (5000 MT)			
	Ground Floor	935.40	-	935.40
3.00	Block – 3 Grain Cleaning			
	Ground Floor	349.98	-	349.98
	First Floor	349.98	-	349.98
	Second Floor	349.98	-	349.98
	Third Floor	349.98	-	349.98
	Fourth Floor	293.00	-	293.00
	Fifth Floor	293.00	-	293.00
	Head Room	-	26.68	26.68
4.00	Block – 4 Fermentation Section			
	Ground Floor	1725.01	-	1725.01
	First Floor	1725.01	-	1725.01
	Second Floor	1725.01	-	1725.01
	Third Floor	1725.01	-	1725.01
	Head Room	-	26.68	26.68
5.00	Block – 5 Distillation, MSDH, Evaporation			
	Ground Floor	948.04	-	948.04
	First Floor	442.20	-	442.20
	Second Floor	442.20	-	442.20
	Third Floor	297.00	-	297.00
	Fourth Floor	241.80	-	241.80
	Fifth Floor	75.67	-	75.67
	Sixth Floor	75.67	-	75.67
	Seventh Floor	44.65	-	44.65
	Head Room	-	26.68	26.68
6.00	Block – 6 Dyer & Decantation Section & DDGS Godown			
	Ground Floor	1490.47	-	1490.47
	First Floor	689.71	-	689.71
	Second Floor	689.71	-	689.71
	Third Floor	605.79	-	605.79
	Fourth Floor	282.58	-	282.58
	Head Room	-	26.68	26.68
7.00	Block – 7 Product Storage Section			
	Ground Floor	2582.84	-	2582.84
8.00	Block – 8 Cooling Tower Fermentation			
	Ground Floor	84.07	-	84.07
9.00	Block – 9 Cooling Tower Dist+MSDH+EVAP+Liquef			
	Ground Floor	209.53	-	209.53
10.00	Block – 10 Dist PCTP			
	Ground Floor	436.45	-	436.45
11.00	Block – 11 Water Treatment Plant			
	Ground Floor	1246.00	-	1246.00
12.00	Block – 12 Product Storage Section			
	Ground Floor	470.77	-	470.77
13.00	Block – 13 Canteen			
	Ground Floor	137.55	--	137.55
14.00	Block – 14 Weigh Bridge			
	Ground Floor	212.00	-	212.00
15.00	Block – 15 Security Office & Time Office & Excise Office			
	Ground Floor	72.65	-	72.65
16.00	Block – 16 Admin Block			
	Ground Floor	613.10	-	613.10
	First Floor	350.20	-	350.20
	Head Room	-	36.80	36.80
17.00	Block – 17 TG Building & Boiler & Coal Storage			
	Ground Floor	3376.35	-	3376.35
18.00	Block – 18 Bulk Chemical Storage			
	Ground Floor	209.00	-	209.00
19.00	Block – 19 Closed Fuel Storage			
	Ground Floor	1015.00	-	1015.00
20.00	Block – 20 Raw Water Tank			
	Ground Floor	1562.62	-	1562.62
21.00	Block -21 Toilet			
	Ground Floor	25.18	-	25.18
22.00	Block -22 Toilet			
	Ground Floor	25.18	-	25.18
		29465.34	158.82	29624.16

PARKING CALCULATIONS RED CATEGORY Pancheyat Area:

Required Parking : Industrial Building:

Every 500 Sq.m = 1 Lorry Space (3.40x10.00m)
Every 50 Sq.m = 1 Two Wheeler & 1 Cycle Space (1.0x1.8m)
Every 50 Sq.m = 1 Two Wheeler & 1 Cycle Space (1.0x1.8m)
Total Building FSI Area = 28502.04 Sq.m
Required Lorry Parking = 28502.04 Sq.m / 500 Sq.m = 57 Nos
Required Two wheeler Parking = 28502.04 Sq.m / 50 Sq.m = 571 Nos
Required Cycle Parking = 28502.04 Sq.m / 50 Sq.m = 571 Nos
Every 50 Sq.m (Office Area) = 1 Car Space
Required Car Parking = 963.30 Sq.m / 50 Sq.m x.75 = 15 Nos
Raquired Car Parking = 29465.34 Sq.m / 50 Sq.m = 590 Nos

Available Parking :

	Required	Available
Lorry Parking	57 Nos	70 Nos
Two wheeler	571 Nos	670 Nos
Cycle Parking	571 Nos	670 Nos
Car Parking	15 Nos	16 Nos (Including 2 Nos Ph.Challenged)

Floor Space Index

= G.F+F.F+S.F+T.F+Fo.F+Fi.F+SLF+So.F / Site Area

= 18005.47+3851.38+3324.34+2977.78+817.38+368.67+75.67+44.65 / 88114.83

= 29465.34 / 88114.83 = 0.334 < 2.00

Plot Coverage

= G.F / Site Area = 18005.47 / 88114.83 = 0.204 < 2.00

Note:

Waste Water Used for Garden
Rain Water harvesting Details Provided
Solar System Water tank provided
Fire Resistance to be provided
Emergency alarm to be provided
Drinking water to be provided as per corporation norms
Rain water harvesting tank to be provided
Waste water from recycled water tank & Treack connected to sullage disposal tank
Solid waste tub to be Provided
Rain water harvesting pit to be Provided
V trap provided in septictank to prevent curb breeding of mosquitoes

(As per G.O (M.S) No : 341 - dated 03.11.2004)

SITE AREA DETAILS:-

Plot No: C-107, C-108, C-109 & C-110, C-111, C-112 = 63836.96 Sq.Mt

Plot No:C-113 = 24288.00 Sq.Mt

Deduction Splay Area (4.50 X 4.50)/2 = 10.13 Sq.Mt

Total Pro.SiteArea = 24277.87 Sq.Mt

Total Pro.Site Area = 63836.96 + 24277.87 = 88114.83 Sq.Mt

Super Imposed Area = 89012.03 Sq.mt.

The Least Value As Per Pro.Site Area

LEGENDS:-

SITE BOUNDARY (ABCDEFGHIJ)
PRO.BUILDING
EXG.ROAD

SWP/BPA/0106790/2024

B.P/DTCP No: 131/2024

P.P/ B.P/ TLPA NO: SWP/23/2024

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For NANDA DEVI BIO ENERGY LLP
Partner

Applicant

Office Use

Construction Engineer

Structural Engineer

Registered Engineer/ Architect

Sheet No-21
04 | 2024
02.01 | 2024

MILL SECTION ELECTRICAL LOAD DETAILS

Sl.No	Equipment Name	QUANTITY	Rating HP	Operation load HP	Stand by load HP	Connected Load HP
1	Chain conveyor below Intake+Hopper	1	2.5	2.5	0	2.5
2	Bucket Elevator	1	10	10	0	10
3	Pre-cleaner	1	3	3	0	3
4	Blower for Pre-Cleaner	1	10	0	0	10
5	Chain conveyor below pre-cleaner	1	2.5	2.5	0	2.5
6	Rotary valve Below Precleaner Cyclone	2	1.5	3	0	3
7	Rotary valve Below Bag Filter	1	1	1	0	1
8	Blower For Bag Filter (Reserting section)	1	15	15	0	15
9	Bucket Elevator	1	15	15	0	15
10	Chain conveyor above silo	1	7.5	7.5	0	7.5
11	Chain conveyor above silo	1	7.5	7.5	0	7.5
12	Motorised gate valve	4	1	4	0	4
13	Blower for silo aeration	4	15	60	0	60
14	Sweep auger	2	5	10	0	10
15	Exhaust fan	4	1	4	0	4
16	Traction Wheel	2	1	2	0	2
17	Fumigation fan	1	3	3	0	3
18	Chain conveyor below silo	1	5	5	0	5
19	Chain conveyor below silo	1	5	5	0	5
20	Chain conveyor below silo	1	5	5	0	5
21	Bucket Elevator	1	2.5	2.5	0	2.5
22	Screw Conveyour above magnetic seperator	1	5	5	0	5
23	Rotary valve below SC-1102	2	1.5	3	0	3
24	Classifier	3	0.5	1.5	0	1.5
25	Blower for classifier	1	30	30	0	30
26	Rotary valve below classifier cyclone	1	2	2	0	2
27	Destoner	3	0.5	2	0	2
28	Blower for destoner	1	20	0[1]	0	0
29	Rotary valve for destoner cyclone	3	1	3	0	3
30	Screw conveyor below hopper	1	5	5	0	5
31	Rotary valve for mill feed hopper	1	5.5	4.5	0	4.5
32	Hammer Mill	4	211	902	0	902
33	Rotary feeder for mill	4	5	10	0	10
34	Screw conveyor below hammer mill	1	5	5	0	5
35	Bucket Elevator	1	7.5	7.5	0	7.5
36	Screw conveyor for sieving machine	1	3	3	0	3
37	Screw conveyor for sieving machine	1	5	5	0	5
38	Screw conveyor for oversize flour	1	5	5	0	5
39	Screw conveyor for oversize flour	1	5	5	0	5
40	Rotary valve for sieving machine	2	2	4	0	4
41	Sieving machine	3	101	303	0	303
42	Screw conveyor above flour silo	1	5	5	0	5
43	Bin Activator	2	0.5	1	0	1
44	Rotary valve for below silo	2	2	4	0	4
45	Screw conveyor below flour storage silo	1	5	5	0	5
46	Bucket elevator	1	7.5	7.5	0	7.5
47	Rotary valve below buffer hopper	1	2	2	0	2
48	Rotary valve below discharge hopper	1	3	3	0	3
49	Screw conveyor above premasher	1	3	3	0	3
50	Blower for Flour silo	1	30	30	0	30
51	Rotary valve for flour bag filter	1	1	1	0	1
52	Blower for mill bag filter	1	12.5	12.5	0	12.5
53	Rotary valve below mill bag filter	1	1	1	0	1
54	Air Compressor	1	30	30	0	30
	Total	88		1140.7		1140.8

FERMENTATION AND LIQUEFACTION SECTION ELECTRICAL LOAD DETAILS

Sl.No	Equipment Name	QUANTITY	Rating HP	Operation load HP	Stand by load HP	Connected Load HP
	1 MOTOR FOR AGITATOR FOR FERMENTOR	3	5	15	0	15
	2 MOTOR FOR AGITATOR FOR PRE FERMENTOR	1	5	5	0	5
	3 MOTOR FOR AGITATOR FOR SUTRENT DOSING TANK	1	0.75	0.75	0	0.75
	4 MOTOR FOR AGITATOR FOR BEER WELL	1	15	15	0	15
	5 MOTOR FOR AIR BLOWER	2(W+S)	40	40	40	80
	6 MOTOR FOR PRE FERMENTER TRANSFER PUMP	1	40	40	0	40
	7 FERMENTED WASH RECIRCULATION PUMP	1	100	100	0	100
	8 MOTOR FOR DOSING PUMP	2(W+S)	1	2	0	2
	9 NUTRIENT DOSING PUMP	1	2	0	0	0
	10 STP PUMP FERMENTATION	2(W+S)	30	30	30	60
	11 HEALING WATER PUMP FOR AIR BLOWER	2(W+S)	0	0	0	0
	12 ENZYME DOSING PUMP	2	0.24	0.48	0	0.48
	13 HEALING WATER PUMP	2(W+S)	7.5	7.5	7.5	15
	14 CIP EFFLUENT TRANSFER PUMP	1	5	5	0	5
	15 CIP EFFLUENT TRANSFER PUMP	1	7.5	7.5	0	7.5
	16 AGITATOR FOR SUTHRY MIXING	1	7.5	7.5	0	7.5
	17 AGITATOR FOR LIQUEFACTION	1	15	15	0	15
	18 PW REMANDED	1	10	10	0	10
	19 SLURRY TRANSFER PUMP	2(W+S)	75	75	75	150
	20 FINAL LIQUEFACTION PUMP	2(W+S)	75	75	75	150
	21 FLASH TANK TRANSFER PUMP	2(W+S)	30	30	30	60
	22 SLURRY FROM LIQUEFACTION TRANSFER PUMP	2(W+S)	75	75	75	150
	23 ENZYME DOSING PUMP	1	0.24	0.48	0	0.48
	24 CAUSTIC DOSING PUMP	2(W+S)	1	2	0	2
	TOTAL		761.21	310	1071.21	

DISTILLATION MSDH EVAPORATION SECTION ELECTRICAL LOAD DETAILS

Sl.No	Equipment Name	QUANTITY	Rating HP	Operation load HP	Stand by load HP	Connected Load HP
	1 ANALYSER BOTTOM TRANSFER PMP	2(W+S)	20	20	20	40
	2 RECTIFICATION PUMP FOR EL BOILER	1	50	50	0	50
	3 ANALYSER CONDENSATTRANSFER PUMP	2(W+S)	12.5	12.5	12.5	25
	4 RECTIFICATION PUMP	1	10	10	0	10
	5 VACUUM PUMP DISTILLATION	2(W+S)	40.6	40	40	80
	6 RECTIFIER COLUMN REFLUX PUMP	2(W+S)	75	75	75	150
	7 RECTIFIER COLUMN REFLUX PUMP	2(W+S)	12.5	12.5	0	12.5
	8 TURBI OIL WASHING PUMP	2(W+S)	1	1	0	1
	9 PTA&MDA&FUSEL&ETHANATE TANKTRANSFER PMP	2(W+S)	40	40	40	80
	10 SEALING WATER PUMP - DISTY/CC UM PUMP	2(W+S)	5	5	5	10
	11 RO FEED PUMP	2(W+S)	5	5	5	10
	12 EFFO EVAPORATOR PUMP	2(W+S)	60	60	60	120
	13 RECTIFICATION CUM TRANSFER PUMP 1	1	30	30	0	30
	14 RECTIFICATION CUM TRANSFER PUMP 2	1	30	30	0	30
	15 RECTIFICATION CUM TRANSFER PUMP3	1	20	20	0	20
	16 RECTIFICATION CUM TRANSFER PUMP 4	1	25	25	0	25
	17 RECTIFICATION CUM TRANSFER PUMP	1	10	10	0	10
	18 THIN SLOP FEED PUMP	2(W+S)	7.5	7.5	7.5	15
	19 THIN SLOP TRANSFER TRANSFER PUMP	2(W+S)	10	10	10	20
	20 EFFLUENT DOG TANK TRANSFER PUMP	2(W+S)	7.5	7.5	7.5	15
	21 CONDENSATE PRODUCT TRANSFER PUMP	2(W+S)	10	10	10	20
	22 CIP PUMP FOR EVAPORATION	2(W+S)	7.5	7.5	7.5	15
	23 EFFLUENT PIT TRANSFER PUMP	1	7.5	7.5	0	7.5
	24 SEALING WATER RECIRCULATION PROCESS PUMP	2(W+S)	7.5	7.5	7.5	15
	25 SEALING WATER RECIRCULATION VACUUM PUMP	2(W+S)	5	5	5	10
	26 VACUUM PUMP FOR EVAPORATION	2(W+S)	60	60	60	120
	TOTAL		598.5	311	909.5	

DECANTATION DWGS DRYER AND DCC SECTION ELECTRICAL LOAD DETAILS

Sl.No	Equipment Name	Quantity	Rating HP	Operation load HP	Stand By load HP	Connected Load HP
	1 RIBBON MIXER	3	5	15	0	15
	2 WET CAKE CONVEYING SCREW FOR DECANTER	2	5	10	0	10
	3 WET CAKE CONVEYING SCREW FOR RIBBON MIXER	1	5	5	0	5
	4 MOTOR CENTRIFUGE MOTOR	2(W+S)	60	120	60	180
	5 MOTOR FOR AIR COMPRESSOR	2(W+S)	55	55	55	110
	6 MOTOR FOR CONVEYING BLOWER	1	60	60	0	60
	7 MOTOR FOR CONVEYING BLOWER	1	60	60	0	60
	8 MOTOR FOR HSA ACTIVATOR	2	2.1	4.2	0	4.2
	9 MOTOR FOR DOSING SCREW	2	167.5	167.5	0	167.5
	10 MOTOR FOR DRYER	1	167.5	167.5	0	167.5
	11 MOTOR FOR RECOVERY CONDENSATE PUMP	2(W+S)	20	20	20	40
	12 MOTOR FOR CYCLON ROTARY VALVE	2	3	6	0	6
	13 MOTOR FOR ROTARY VALVE OF ADJUNCT HOPPER	2	1	4	0	4
	14 MOTOR FOR ROTARY VALVE BELOW PRODUCT COLLECTOR (S-1501)	1	3	3	0	3
	15 MOTOR FOR ROTARY VALVE BELOW PRODUCT COLLECTOR (S-1601)	1	3	3	0	3
	16 MOTOR FOR ROTARY VALVE BELOW DDGS SILO	2	3.5	7	0	7
	17 MOTOR FOR HAUL OFF SCREW	2	152	152	0	152
	18 MOTOR FOR DISCHARGE SCREW	2	101	202	0	202
	19 MOTOR FOR DOSING SCREW	2	3.5	7	0	7
	20 MOTOR FOR FEED SCREW	2	3.5	7	0	7
	21 MOTOR FOR CONVEYING SCREW	2	39	78	0	78
	22 MOTOR FOR CENTRIFUGE FEEDING SCREW	2	15	30	0	30
	23 MOTOR FOR DOUBLE SHAFT MIXER	2	132	264	0	264
	24 MOTOR FOR VAPOR FAN	2	50	100	0	100
	25 ELECTRIC PANEL FOR DOSGING MACHINE	2	5	10	0	10
	26 MOTOR FOR PULVERISER	2	75	150	0	150
	27 BUCKET ELEVATOR	2	3.5	7	0	7
	28 FLASH TRANSFER PUMP	2(W+S)	75	75	75	150
	29 HOT BOTTOM TRANSFER PUMP	2(W+S)	75	75	75	150
	TOTAL			1251.2	265	1516.4

ETHANOL STORAGE SECTION ELECTRICAL LOAD DETAILS

Sl.No	Equipment Name	Quantity	Rating HP	Operation load HP	Stand by load HP	Connected Load HP
	1 AA TRANSFER CUM ISSUE PUMP	2(W+S)	30	30	30	60
	2 ES TRANSFER PUMP	2(W+S)	5	5	5	10
	3 FO TRANSFER PUMP	1	1	1	0	1
	4 DENATURANT RECIRCULATION PUMP	1	3.5	3.5	0	3.5
	TOTAL			39.5	35	60.5

UTILITY ELECTRICAL LOAD DETAILS

Sl.No	Equipment Name	Quantity	Rating HP	Operation load HP	Stand by load HP	Connected Load HP
	FERMENTATION COOLING WATER RECIRCULATION PUMP	2(W+S)	100	200	100	300
	DISTILLATION EVAPORATION COOLING WATER RECIRCULATION PUMP	2(W+S)	120	240	120	360
	CHILLED COOLING WATER RECIRCULATION PUMP	2(W+S)	120	120	120	240
	CHILLOW DOWN TRANSFER PUMP	1	5	5	0	5
	TOTAL			685	340	1025

Raw Water Tank Section Electrical Load

Sl. No.	Description of Load	Quantity	Motor Rating HP	Motor Working Load HP	Motor Std by Load	Total Connected load
1	Electrical motor drives main pump	2 (W+S)	240	240	240	480
2	Electrical motor drives jockey pump	2 (W+S)	40	40	40	80
3	Fire alarm panel in TG building	1	3	3	0	3
4	Fire alarm panel in PCTP & WTP building	1	1.5	2	0	2
5	Fire alarm panel in fermentation building	1	1.5	2	0	2
6	Deluge valve control panel for transformer-1	1	1.5	2	0	2
7	Deluge valve control panel for transformer-2	1	1.5	2	0	2
8	Deluge valve control panel for transformer-3	1	1.5	2	0	2
9	Deluge valve control panel for transformer-4	1	1.5	2	0	2
10	Deluge valve control panel for transformer-5	1	1.5	2	0	2
11	Deluge valve control panel for MV909 and Foam system	1	1	1	0	1
12	Raw water Process Pump	2 (W+S)	40	40	40	80
	Total			338.5	320	656

PCTP ELECTRICAL LOAD DETAILS

Sl.No	Equipment Name	Quantity	Rating Load HP	Operation load HP	Stand by load HP	Connected Load HP
	1 Equalization Tank Transfer Pump	2(W+S)	10	10	0	10
	2 Filter Feed Pump	2(W+S)	10	10	10	20
	3 Feed RO Pressing Pump	2(W+S)	12.5	12.5	12.5	25
	4 Feed RO High Pressure Pump	2(W+S)	40	40	40	80
	5 Feed RO Booster Pump	2(W+S)	3	3	3	6
	6 Reject RO Pressing Pump	2(W+S)	5	5	5	10
	7 Reject RO High PressurePump1	2(W+S)	10	10	10	20
	8 Reject RO High Pressure Pump-II	2(W+S)	10	10	10	20
	9 Reject RO Booster Pump	2(W+S)	2	2	2	4
	10 RO CIP Pump	2(W+S)	12.5	12.5	0	12.5
	11 Backwash Transfer Pump	2(W+S)	3	3	3	6
	12 RO Reject Transfer Pump	2(W+S)	3	3	3	6
	13 RO Permeate transfer Pump	2(W+S)	5	5	5	10
	14 UF CIP Pump	2(W+S)	5	5	0	5
	15 UF Backwash, Pump	2(W+S)	10	10	10	20
	16 Filter Backwash Pump	2(W+S)	20	20	0	20
	17 UF Feed Pump	2(W+S)	5	5	5	10
	18 Sludge Transfer Pump	1	3	3	0	3
	19 Air Blower fo UF	2(W+S)	5	5	5	10
	20 Alkali Dosing Pump	2(W+S)	0.24	0.24	0.24	0.48
	21 Antiscalant Dosing Pump For Feed RO	1	0.24	0.24	0	0.24
	22 Antiscalant Dosing Pump For Reject RO	1	0.24	0.24	0	0.24
	23 FeCl3 Dosing Pump	2(W+S)	0.24	0.24	0.24	0.48
	24 Polv Dosing Pump	2(W+S)	0.24	0.24	0.24	0.48
	25 Alkali Dosing Pump for UF	2(W+S)	0.24	0.24	0.24	0.48
	26 Acid Dosing Pump for UF	2(W+S)	0.24	0.24	0.24	0.48
	27 Hypo Dosing Pump for UF	2(W+S)	0.24	0.24	0.24	0.48
	28 Agitator for Flash Mixer	1	0.5	0.5	0	0.5
	29 Agitator for Flocculator	1	0.5	0.5	0	0.5
	30 Agitator for FeCl3 Dosing Tank	1	0.5	0.5	0	0.5
	31 Agitator for Polyvectrolyte Dosing Pump	1	0.5	0.5	0	0.5
	TOTAL			163.92	118.94	282.86

WATER TREATMENT PLANT ELECTRICAL LOAD DETAILS

Sl.No	Description of Load	Quantity	HP	Working load in HP	Standby load in HP	Total connected load HP
1	Sodium Hypochlorite Dosing Pump-A	2(1+1W)	0.24	0.24	0.24	0.48
2	Coagulant Dosing Pump-A	2(1+1W)	0.50	0.5	0.5	1
3	Agitator for Coagulant Preparation Tank	1	1.0	1.0	1.0	2
4	Agitator for Coagulant Dosing Tank	1	1.0	1.0	1.0	2
5	Polymer dosing pump - A	2(1+1W)	0.50	0.5	0.5	1
6	Agitator for Polymer Preparation Tank	1	1.0	1.0	1.0	2
7	Agitator for Polymer Dosing Tank	1	1.0	1.0	1.0	2
8	SBDC Skid, skim motor	1	3	3.0	3.0	6
9	Agitator for SBDC Turbine	1	3	3	3	6
10	Sludge thickle pump-A	2(1+1W)	5	5	5	10
11	Filter Feed pump-A	2(1+1W)	10	10	10	20
12	MGF skid Motor -A	2(1+1W)	3	3	3	6
13	UF CIP Pump-A	1	10.1	10	10	20
14	Agitator for ICCP Tank	1	0.5	0.5	0.5	1
15	UF back wash pump - A	2(1+1W)	12.5	12.5	12.5	25
16	UF Air Blower-A	2(1+1W)	0.5	0.5	0.5	1
17	RO-I, Dosing Pump - A (UF-CEB-I)	2(1+1W)	0.5	0.5	0.5	1
18	Sodium Hypochlorite Dosing Pump - A (UF-C	2(1+1W)	0.5	0.5	0.5	1
19	Caustic Dosing Pump - A (UF-CEB-I)	2(1+1W)	0.5	0.5	0.5	1
20	Agitator for caustic dosing tank (UF-CEB-I)	1	0.5	0.5	0.5	1
21	RO-feed pump-A	3(2+1R)	1.0	1.0	1.0	3
22	Antiscalant Dosing Pump - A	3(2+1R)	0.15	0.15	0.1	0
23	Sodiummetabisulfite Dosing Tank agitator	1	0.5	0.5	0.5	1
24	Antiscalant Dosing Pump - A	3(2+1R)	0.5	0.5	0.5	1
25	Antiscalant Dosing Tank Agitator	1	0.5	0.5	0.5	1
26	Sodiumbisul ate Dosing Pump - A	3(2+1R)	0.5	0.5	0.5	1
27	RO Chemical cleaning tank agitator	1	2.0	2.0	2.0	4
28	RO-mineral transfer pump	1	10	10	10	20
29	RO high pressure pump - A	3(2+1R)	75	75	75	150
30	Degasser Air blower -A	3(2+1R)	0.5	0.5	0.5	1
31	Alkali measuring tank agitator for SBA	1	0.5	0.5	0.5	1
32	SB Feed Pump - A	3(2+1R)	0.5	0.5	0.5	1
33	Caustic dilution tank agitator for SB	1	0.5	0.5	0.5	1
34	SB air blower-A	3(2+1R)	3.0	3.0	3.0	9
35	pH dosing pump - A	3(2+1R)	0.2	0.2	0.2	0
36	pH dosing tank agitator	1	0.5	0.5	0.5	1
37	Effluent Transfer Pump -A	3(2+1R)	7.5	7.5	7.5	15
38	PO panel power	1	3	3	3	6
39	UF panel power	1	3	3	3	6
40	PST panel power	1	3	3	3	6
	TOTAL			172.85	172.85	343.35
						343.35
						1029.47 kW