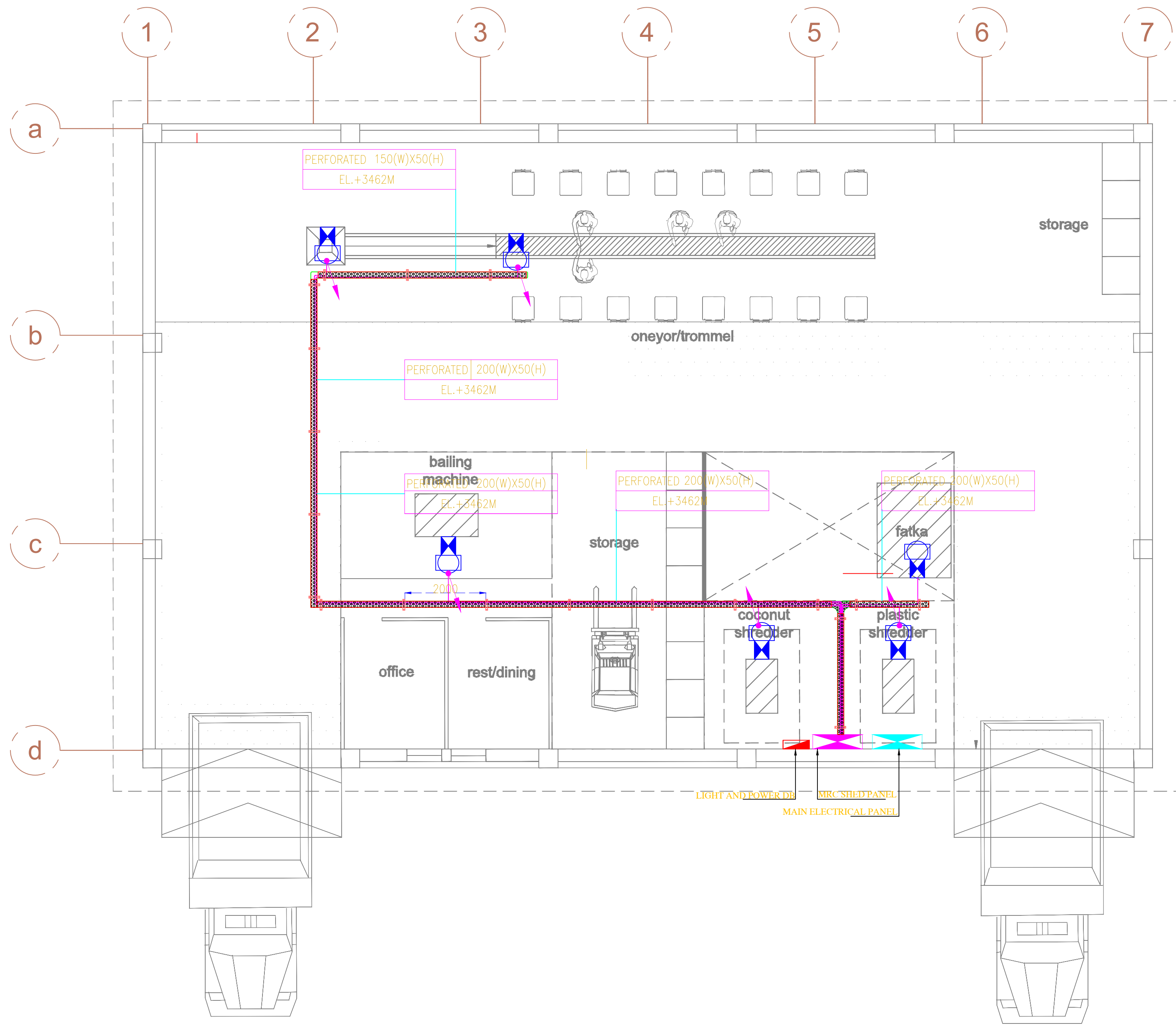




LEGENDS/BILL OF MATERIAL

ITEM No.	SYMBOLS	DESCRIPTION
01		PERFORATED HORIZONTAL CABLE TRAY
02		CABLE TRAY SUPPORT
03		ELECTRICAL VERTICAL CABLE TRAY
04		ELBOW
05		TEE
06		REDUCER
07		16A UTILITY SOCKET
08		6A RAW POWER SOCKET
09		DISTRIBUTION BOARD

THIS DRAWING IS THE PROPERTY OF ARCHITECTS GROTTO IS NOT TO BE USED FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS ISSUED WITH OUT PERMISSION OF ITS PRINCIPALS.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER RELEVANT ARCHITECTURAL, STRUCTURAL AND OTHER SERVICES/ CONSULTANTS DRAWING. IT SHALL BE THE DEEMED RESPONSIBILITY OF THE CONTRACTOR/ FABRICATOR TO BRING IN TO NOTICE OF ARCHITECTS IF ANY DISCREPANCY WITHIN OR BETWEEN THE DRAWINGS PRIOR TO CONSTRUCTION.

ALL WRITTEN DIMENSIONS ARE TO BE FOLLOWED AND THE DRAWING IS NOT TO BE SCALED.

PROJECT :-

RANCHI MRF

MEP CONSULTANTS:

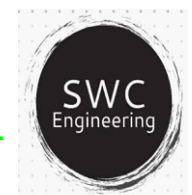
SWC ENGINEERING

599, Ground Floor, HBC Sector-51

Gurgaon, Haryana-122002

M.+91-9560658972

E-mail: engineering.swc@gmail.com



DRAWING TITLE :

**MRC CABLE TRAY LAYOUT & SLD
WASTE PROCESSING PLANT**

Scale : **1:100 (A1)**

Drawn by : **NAVDEEP**

Date : **13.09.2023**

Checked by: **S.SHARMA**

Project no : **0004**

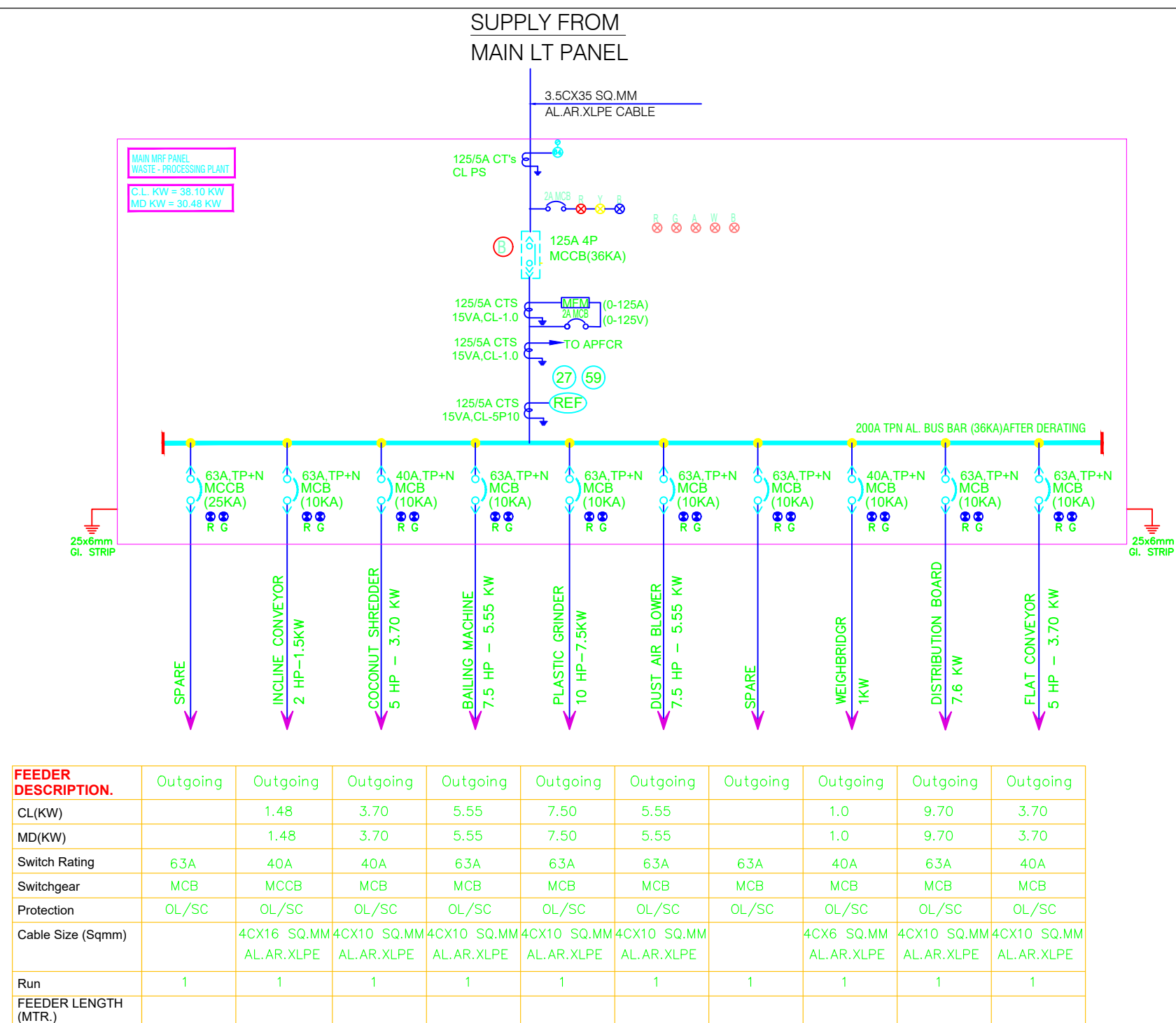
Approved by :

Drawing no :

ELEC.-MRC&MRF-WASTE-001

REVISION

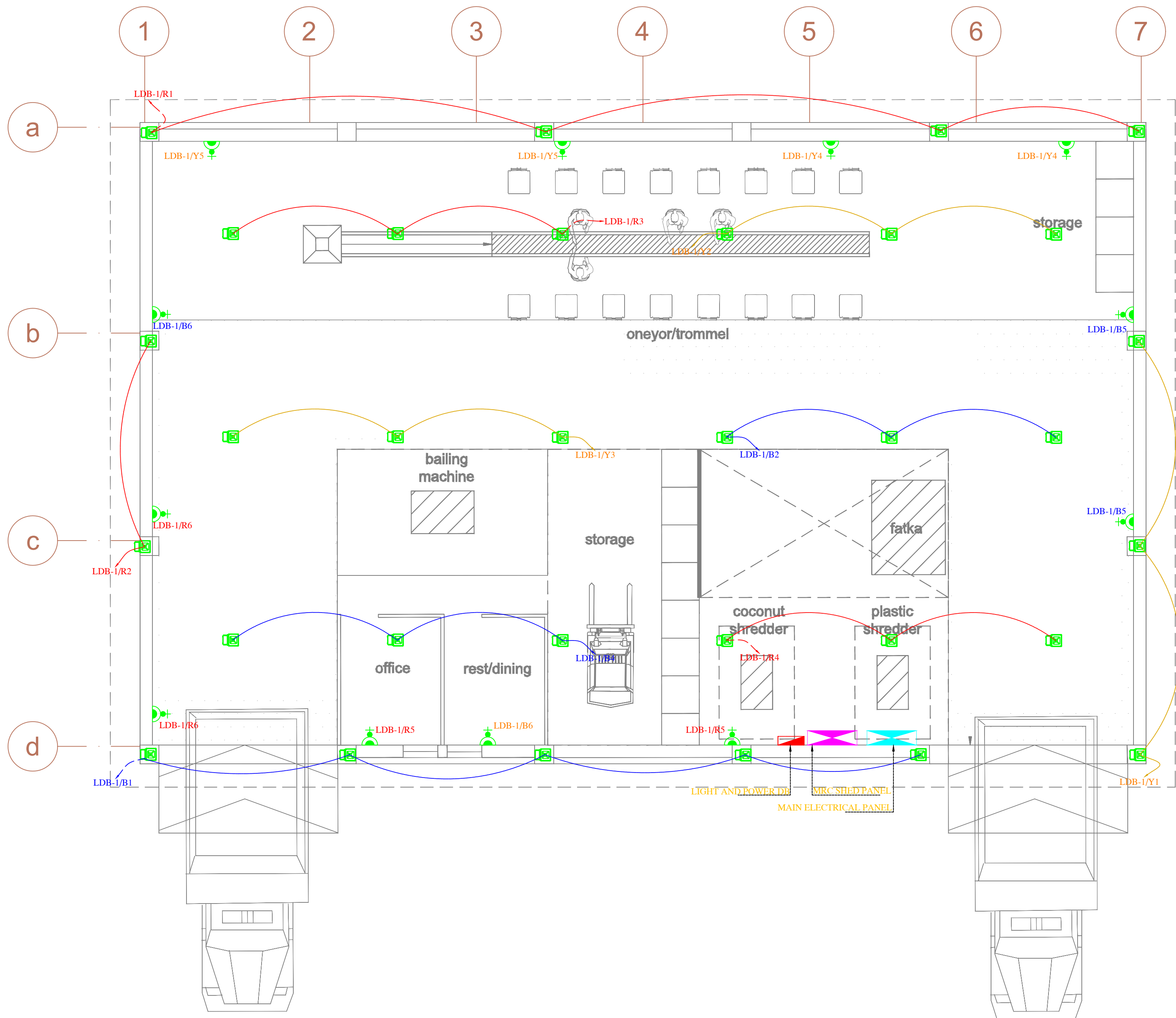
R0



FEEDER DESCRIPTION.	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing
CLKW		1.48	3.70	5.55	7.50	5.55		1.0	9.70	3.70
MD(KW)		1.48	3.70	5.55	7.50	5.55		1.0	9.70	3.70
Switch Rating		63A	40A	40A	63A	63A	63A	63A	40A	40A
Switchgear		MCB	MCB	MCB	MCB	MCB	MCB	MCB	MCB	MCB
Protection		OL/SC	OL/SC	OL/SC	OL/SC	OL/SC	OL/SC	OL/SC	OL/SC	OL/SC
Cable Size (Sqmm)		4CX16 SQ.MM	4CX10 SQ.MM	4CX10 SQ.MM	4CX10 SQ.MM	4CX10 SQ.MM	4CX10 SQ.MM	4CX6 SQ.MM	4CX10 SQ.MM	4CX10 SQ.MM
Run		1	1	1	1	1	1	1	1	1
FEEDER LENGTH (MTR.)										

CABLE TRAY TYPE
CABLE TRAY WIDTH & HEIGHT
PERFORATED 300(W)X50(H)
EL.+3462M
CABLE TRAY ELEVATION (B.O.T)

POWER.CABLE
C1 TO DB
C2 C3 C4
CABLES TAG NO.



ELECTRICAL LEGENDS:		
SYMBOL	DESCRIPTION	Mounting Height (Box Bottom from FFL)
	WALL BRACKET LIGHT	+2100 mm
	20W LED SURFACE MOUNTED LIGHT	On Ceiling
	SWITCHES	+1100 mm
	EXHAUST FAN	As/ Ventilator
	600x600mm Recessed LED Light	On Ceiling
	LED BATTEN LIGHT	On Ceiling
	20W RECESS MOUNTED CEILING LIGHT	On Ceiling
	LED BATTEN LIGHT ON EMERGENCY	On Ceiling
	16A SOCKET WITH 16A SWITCH	+300mm Or as per Furniture Height
	5A SOCKET WITH FOR EXHAUST	Near Exhaust fan
	CEILING FAN – 1200MM DIA.	On Ceiling
	CEILING FAN – REGULATOR,	On Switch Board
	5A SOCKET WITH 6A SWITCH	On Switch Board
	BULK HEAD LIGHT	As/ parapet Wall
	COMMON AREA DB	+1800 (DB Centre)
	EMERGENCY DB	+1800 (DB Centre)
	TYPICAL UNIT DB	+1800 (DB Centre)
	EMERGENCY CONDUIT 25MM ø	–
	CONDUIT 25MM ø	–
	SUBMAIN CONDUIT 32MM ø	–
	LED BATTEN LIGHT	On Wall
	LED STRIP LIGHT	In Cupboard
	LED Wall Bracket LIGHT	On Wall
	USB Charging Point	–
	TV Outlet	+1200 mm
	6A Socket with switch for TV	+1200 mm
	Telephone Outlet	–
	20A socket for Gysar	–
	Table lamp Socket outlet	–
	DATA Socket Outlet	–
	20A socket Outlet for AC	–
	indoor camera	
	outdoor camera	
	6A Socket for Camera	

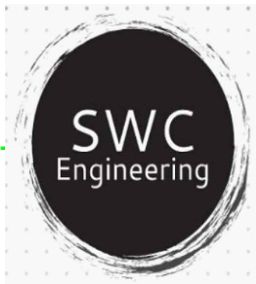
THIS DRAWING IS THE PROPERTY OF ARCHITECTS GROTTTO IS NOT TO BE USED FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS ISSUED WITH OUT PERMISSION OF ITS PRINCIPALS.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER RELEVANT ARCHITECTURAL, STRUCTURAL AND OTHER SERVICES/ CONSULTANTS DRAWING. IT SHALL BE THE DEEMED RESPONSIBILITY OF THE CONTRACTOR/ FABRICATOR TO BRING IN TO NOTICE OF ARCHITECTS IF ANY DISCREPANCY WITHIN OR BETWEEN THE DRAWINGS PRIOR TO CONSTRUCTION.

ALL WRITTEN DIMENSIONS ARE TO BE FOLLOWED AND THE DRAWING IS NOT TO BE SCALED.

PROJECT :-
RANCHI MRF

MEP CONSULTANTS:
SWC ENGINEERING
599, Ground Floor, HBC Sector-
Gurgaon, Haryana-122002
M.+91-9560658972
E-mail: engineering.swc@gmail.com



DRAWING TITLE :
**MRC LIGHTING & POWER LAYOUT
WASTE PROCESSING PLANT**

Scale : **1:100 (A1)** Drawn by : **NAVDEEP**
Date : **13.09.2023** Checked by: **S.SHARMA**
Project no : **0004** Approved by :

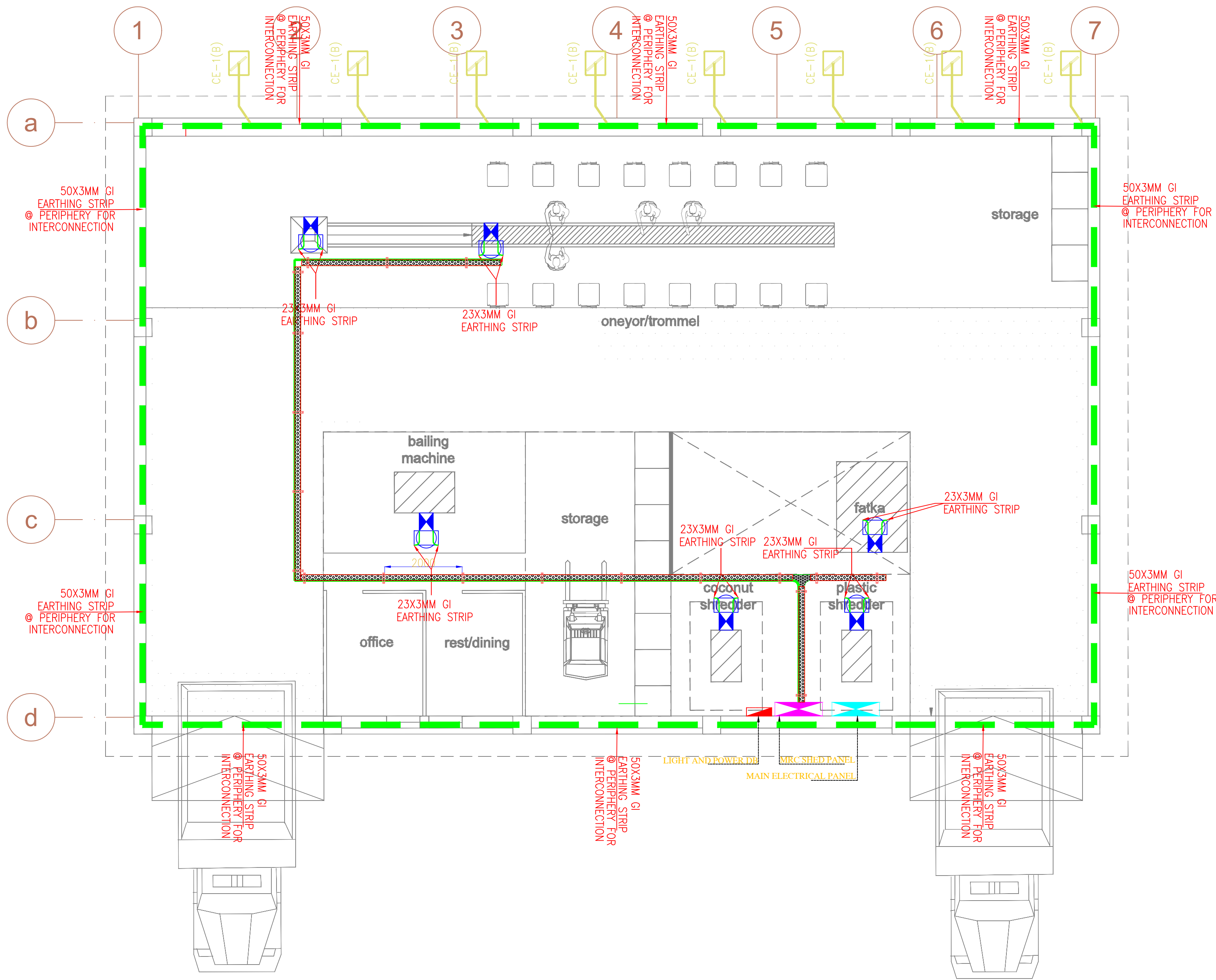
Drawing no :
ELEC.-MRC&MRF-WASTE-002

REVISION

LIGHTING DISTRIBUTION BOARD-1 (LDB-1)				ENTRANCE WALL – MRF SHED					
(8WAY TPN)									
CKT.			LOCATION	TOTAL NUMBER OF POINTS	ELECT.LOAD IN (W)			SP MCB SIZE (A)	WIRE SIZE
R	Y	B			R	Y	B		
R1			80W LED BULK HEAD LIGHT CIRCUIT	04	320			10	1.5/1.5
R2			80W LED BULK HEAD LIGHT CIRCUIT	04	320			10	1.5/1.5
R3			80W LED BULK HEAD LIGHT CIRCUIT	04	320			10	1.5/1.5
R4			80W LED BULK HEAD LIGHT CIRCUIT	04	320			10	1.5/1.5
R5			16A SOCKETS	02	1000			16	1.5/1.5
R6			16A SOCKETS	02	1000			16	2.5/1.5
R7			SPARE					16	2.5/1.5
R8			SPARE					16	
	Y1		80W LED BULK HEAD LIGHT CIRCUIT	05		400		10	1.5/1.5
	Y2		80W LED BULK HEAD LIGHT CIRCUIT	03		240		10	1.5/1.5
	Y3		80W LED BULK HEAD LIGHT CIRCUIT	04		320		10	1.5/1.5
	Y4		16A SOCKETS	02		1000		16	1.5/1.5
	Y5		16A SOCKETS	02		1000		16	2.5/1.5
	Y6		16A SOCKETS					16	2.5/1.5
	Y7		SPARE					16	2.5/1.5
	Y8		SPARE					16	
		B1	80W LED BULK HEAD LIGHT CIRCUIT	04			320	10	1.5/1.5
		B2	80W LED BULK HEAD LIGHT CIRCUIT	04			320	10	1.5/1.5
		B3	80W LED BULK HEAD LIGHT CIRCUIT	04			320	10	1.5/1.5
		B4	16A SOCKETS	02			1000	10	1.5/1.5
		B5	16A SOCKETS	02			1000	16	2.5/1.5
		B6	16A SOCKETS	01			500	16	2.5/1.5
		B7	SPARE					16	2.5/1.5
		B8	SPARE					16	
		TOTAL			3280	2960	3460	PER PHASE	
INCOMING-60A TPN+L MCB (16kA)				TOTAL CONNECTED LOAD:-9.700 kW					
INCOMING WIRE SIZE-4x10.0 Sq.mm. + 2 X 6.0 Sq. mm Aluminium Ar. cable from MLTP									

ELECTRICAL NOTES :

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL STRUCTURAL AND ELECTRICAL DRAWING.
- MINIMUM SIZE OF CONDUIT SHALL BE 25 MM ø
- ALL SWITCH SOCKET SHALL BE AS PER CPWD GUIDELINE. ALL BOX SHALL BE OF GALVANISED MS.
- SIZE OF WIRING SHALL BE AS BELOW
LIGHT POINTS – 2x1.5+1x1.5 Sqmm Cu. FRLS WIRE
AC/GYSER POINT(FIRST POINT)–2x4.0+1x2.5 SqmmCu. FRLS WIRE
GEN.POWER POINT(FIRST POINT)–2x2.5+1x1.5 SqmmCu. FRLS WIRE
- MAXIMUM TWO NORMAL POWER POINT CAN BE CONNECTED WITH ONE CIRCUIT
- MAXIMUM TWO NOS. CKTS. OF SAME PHASE CAN BE LAID IN SINGLE CONDUIT.
- SEPARATE CONDUIT FOR LIGHTING AND POWER TO BE USED
- 230 MM BRICK WALL REQUIRED FOR FIXING OF DB.



ELECTRICAL LEGENDS:		
SYMBOL	DESCRIPTION	Mounting Height (Box Bottom from FFL)
	WALL BRACKET LIGHT	+2100 mm
	20W LED SURFACE MOUNTED LIGHT	On Ceiling
	SWITCHES	+1100 mm
	EXHAUST FAN	As/ Ventilator
	600x600mm Recessed LED Light	On Ceiling
	LED BATTEN LIGHT	On Ceiling
	20W RECESS MOUNTED CEILING LIGHT	On Ceiling
	LED BATTEN LIGHT ON EMERGENCY	On Ceiling
	16A SOCKET WITH 16A SWITCH	+300mm Or as per Furniture Height
	5A SOCKET WITH FOR EXHAUST	Near Exhaust fan
	CEILING FAN — 1200MM DIA.	On Ceiling
	CEILING FAN — REGULATOR.	On Switch Board
	5A SOCKET WITH 6A SWITCH	On Switch Board
	BULK HEAD LIGHT	As/ parapet Wall
	COMMON AREA DB	+1800 (DB Centre)
	EMERGENCY DB	+1800 (DB Centre)
	TYPICAL UNIT DB	+1800 (DB Centre)
	EMERGENCY CONDUIT 25MM ϕ	—
	CONDUIT 25MM ϕ	—
	SUBMAIN CONDUIT 32MM ϕ	—
	LED BATTEN LIGHT	On Wall
	LED STRIP LIGHT	In Cupboard
	LED Wall Bracket LIGHT	On Wall
	USB Charging Point	—
	TV Outlet	+1200 mm
	6A Socket with switch for TV	+1200 mm
	Telephone Outlet	—
	20A socket for Gysar	—
	Table lamp Socket outlet	—
	DATA Socket Outlet	—
	20A socket Outlet for AC	—
	Indoor camera	
	Outdoor camera	
	6A Socket for Camera	

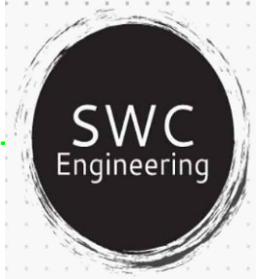
THIS DRAWING IS THE PROPERTY OF ARCHITECTS GROTTTO IS NOT TO BE USED FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS ISSUED WITH OUT PERMISSION OF ITS PRINCIPALS.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER RELEVANT ARCHITECTURAL, STRUCTURAL AND OTHER SERVICES/ CONSULTANTS DRAWING. IT SHALL BE THE DEEMED RESPONSIBILITY OF THE CONTRACTOR/ FABRICATOR TO BRING IN TO NOTICE OF ARCHITECTS IF ANY DISCREPANCY WITHIN OR BETWEEN THE DRAWINGS PRIOR TO CONSTRUCTION.

ALL WRITTEN DIMENSIONS ARE TO BE FOLLOWED AND THE DRAWING IS NOT TO BE SCALED.

PROJECT :-
RANCHI MRF

MEP CONSULTANTS:
SWC ENGINEERING
599, Ground Floor, HBC Sector-
Gurgaon, Haryana-122002
M.+91-9560658972
E-mail: engineering.swc@gmail.com



DRAWING TITLE :
**MRC EARTHING LAYOUT
WASTE PROCESSING PLANT**

Scale : **1:100(A1)** Drawn by : **NAVDEEP**
Date : **13.09.2023** Checked by: **S.SHARMA**
Project no : **0004** Approved by :

Drawing no :
ELEC.-MRC&MRF-WASTE-003

REVISION R0

