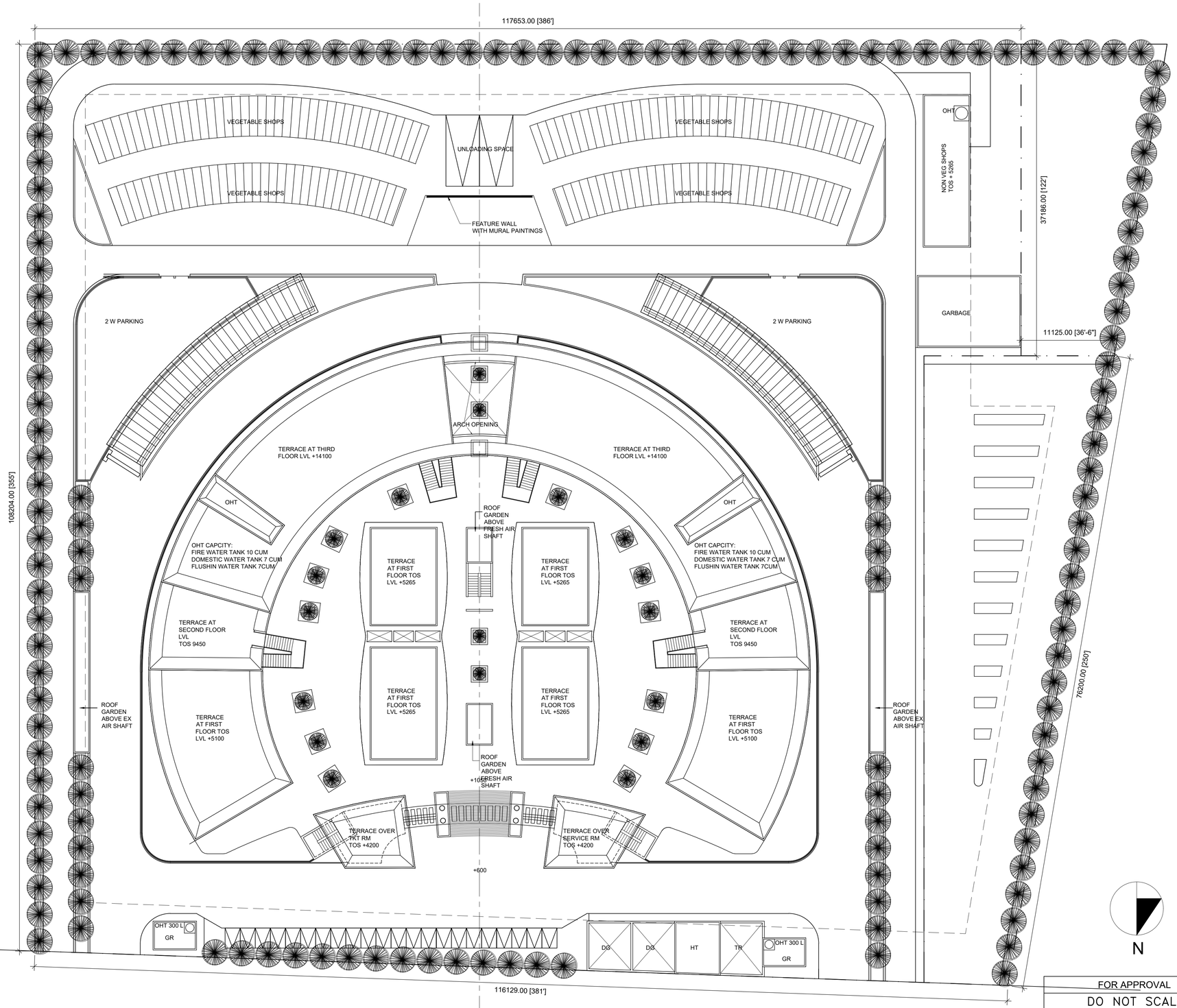
TITLE: ROURKELA SMART CITY
PANPOSH MARKET REDEVELOPMENT
SITE PLAN

DWG NO: TCE.10839A-AC-1001-MP-10496



SITE PLAN SHOWING TERRACE

CENTRE OF ROAD ASSUMED TO BE AT ± 0.00

	SIGN.												
	INITIALS												
	REVISIONS												
	SIGN.												
	INITIALS												
	REVISIONS												
P1	SIGN.												10-05-2019
	INITIALS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME		PE/PM	APPD	DATE	
					CLEARED							17-07-2017	

FOR APPROVAL

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FILE NAME : PANPOSH MARKET NEW SCHEME WITH CONSTRAINTS.DWG

ROURKELA SMART CITY LTD

PDMC FOR AREA BASED DEVELOPMENT

PANPOSH MARKET REDEVELOPMENT
SITE PLAN

TATA CONSULTING ENGINEERS LIMITED

SCALE	DWG NO.	ISSUE
: 1:300	TCE.10839A-AC-1001-MP-10496	P1

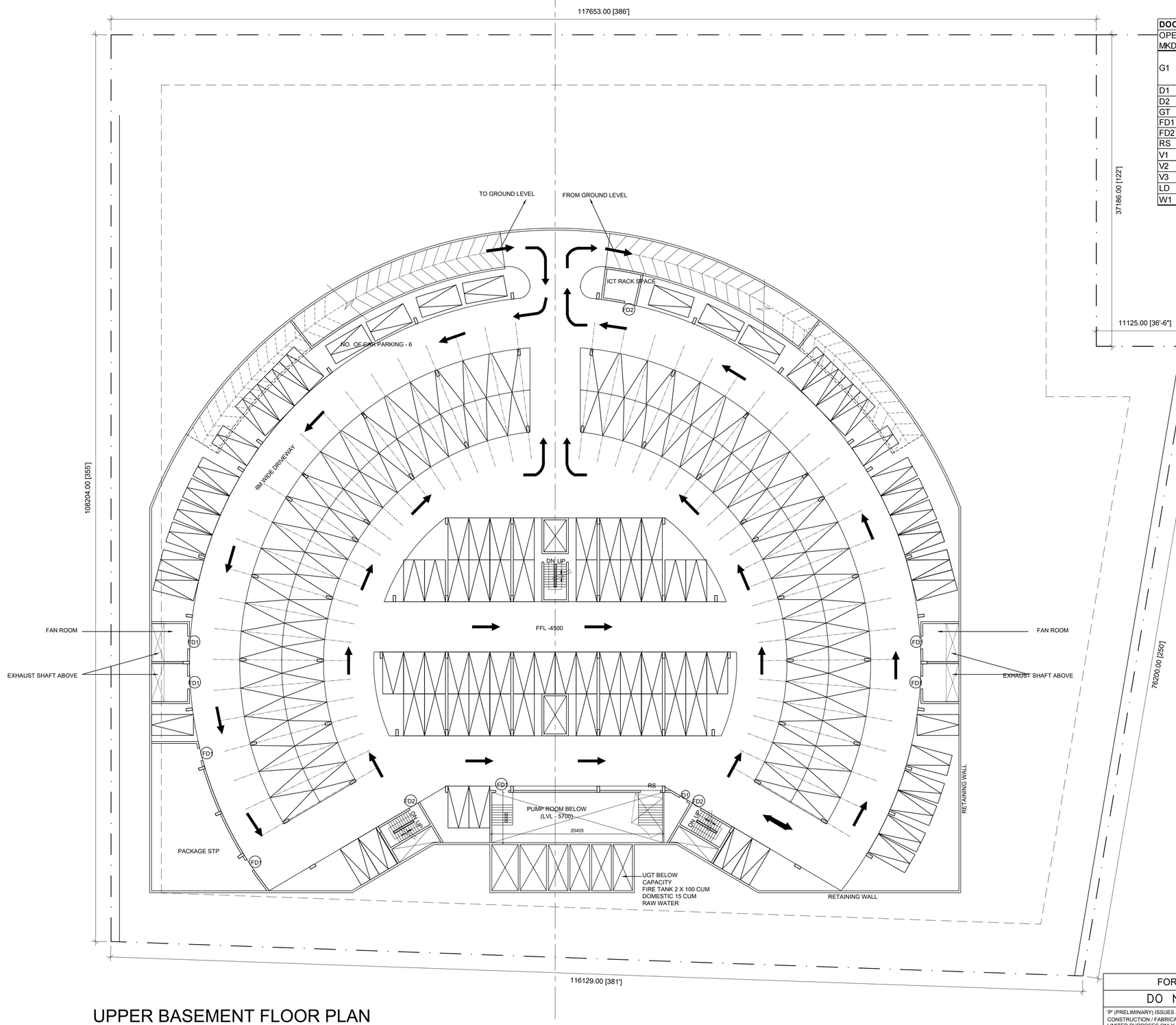
SIZE-A1

TCE FORM NO. 091 R0

FILE NAME: F-091-Rev-R0.dwg

TITLE: ROURKELA SMART CITY
PANPOSH MARKET REDEVELOPMENT
UPPER BASEMENT PLAN

DWG NO: TCE.10839A-AC-10501-AC-10502



DOOR-WINDOW SCHEDULE

OPENING MKD	MASONRY OPENING	LOCATION	LINTEL	SILL	DESCRIPTION
G1	2100 X 2400	SHOPS	2400	±0.00/+100	FRAMELESS FIXED GLAZING WITH 1200 OPENABLE SHUTTER AND MS ROLLING SHUTTER ON OUTER FAÇADE
D1	1000 X 2400	STAIRCASE	2400	±0.00/+100	STEEL DOORS
D2	1000 X 2400	TOILETS	2400	±0.00/+100	STEEL DOORS
GT	1500 X 2400	PARKING	2400	±0.00/+100	MS GATE
FD1	1500 X 2400	BASEMENT	2400	±0.00/+100	DOUBLE SHUTTER STEEL DOOR WITH VISION PANEL
FD2	1200 X 2400	BASEMENT	2400	±0.00/+100	SINGLE SHUTTER STEEL DOOR WITH VISION PANEL
RS	2400 X 2400	GARBAGE	2400	±0.00/+100	MS ROLLING SHUTTER
V1	600 X 1200	TOILETS	2400	1200	AL FRAMED GLAZED FIXED SHUTTER WITH EX FAN
V2	1800 X 600	NON-VEG SOPS	2400	600	AL FRAMED CENTRAL HUNG GLAZED SHUTTERS
V3	900 X 600	SHAFT	1500	900	ACCESS PANEL WITH FRP LOUVERS
LD	900 X 2100	LIFT	2100	±0.00	SS DOOR SHUTTERS
W1	1500 X 2300	SHOPS	2400	100	AL FRAMED FIXED GLAZING

UPPER BASEMENT FLOOR PLAN
LEVEL -4500

BASEMENT AREA = 6568.433 SQM
TOTAL NUMBER OF PARKING = 180

ISSUE		DRN	DSN	CHD	CV	EL	IC	ME	PE/PM	APPD	DATE
	SIGN.										
	INITIALS										
	REVISIONS										
	SIGN.										
	INITIALS										
	REVISIONS										
P1	SIGN.										10-05-2019
	INITIALS										
					CLEARED						17-07-2017

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ROURKELA SMART CITY LTD.

ROURKELA SMART CITY LTD

PDMC FOR AREA BASED DEVELOPMENT

PANPOSH MARKET REDEVELOPMENT
UPPER BASEMENT FLOOR PLAN

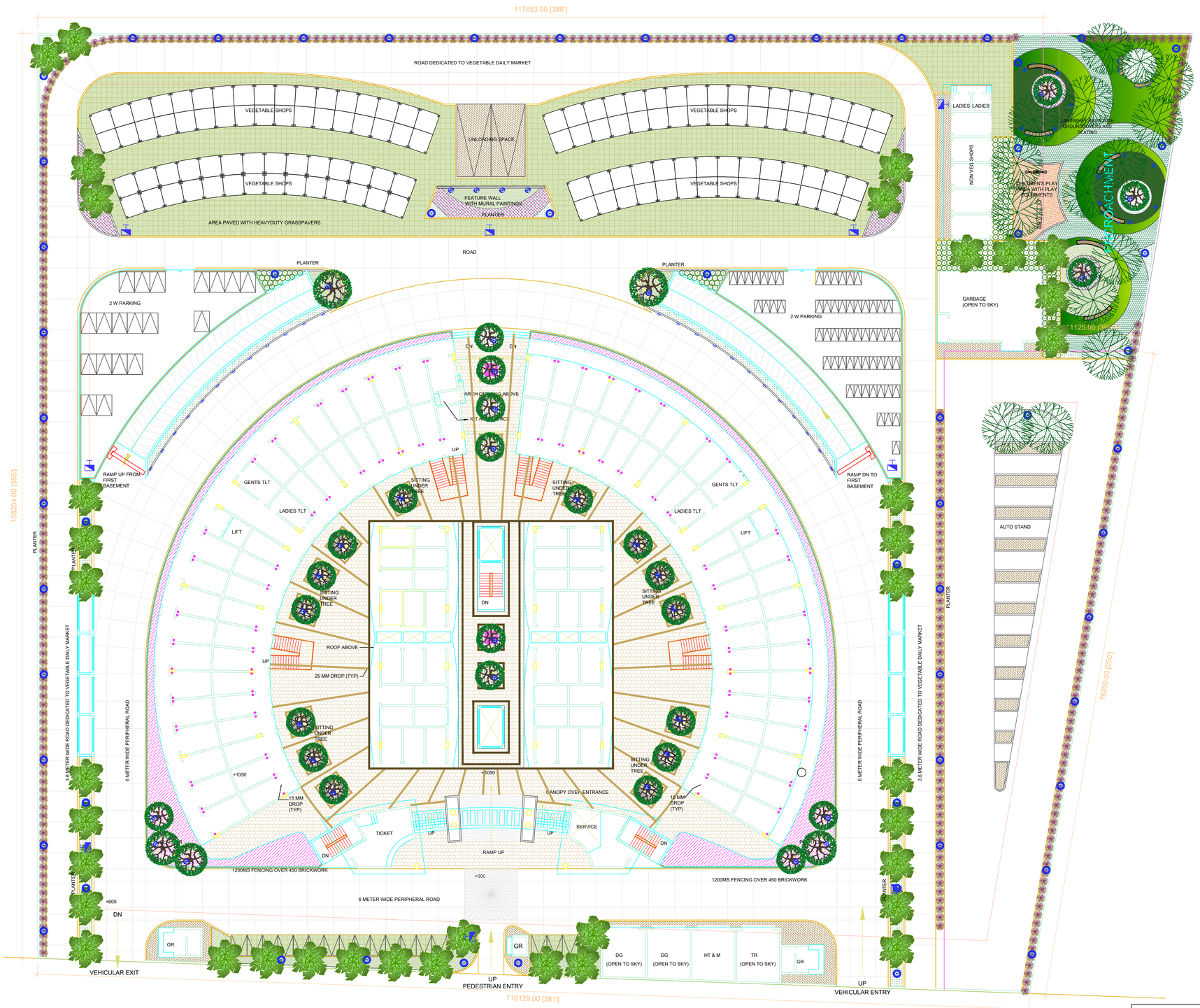
TATA CONSULTING ENGINEERS LIMITED

SCALE : 1:300
DC & DISC : NOIDA
DWG NO. TCE.10839A-AC-10501-AC-10502
ISSUE P1
FILE NAME : TCE.10839A-AC-10501-AC-10502 - P1
SIZE-A1

FILE NAME: F-091-Rev-R0.dwg

TCE FORM NO. 091 R0

TITLE:	DWG NO
ROURKELA SMART CITY PANPOSH MARKET REDEVOPMENT SITE PLAN MASTER PLAN	TCE.10839A-AC-1001-LP-10531



NOTES

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LEGEND : HARDSCAPE FINISHES

Sr. No.	SYMBOL	DESCRIPTION	QUANTITY
1.		**HEAVY-DUTY GRASS PAVERS** (Precast paver block with 50% grass area) (Size: 450mmX450mmX80mm)	975 SqM
2.		**INTERLOCKING PAVER BLOCKS WITH PEBBLE JOINT** (Colour: Terracotta) (60 mm THK)	240 SqM
3.		**STONE PAVING** (Leather finished Mint Sandstone) (Size: not exceeding 600mmX600mm)	1360 SqM
4.		**STONE PAVING & COPPING FOR SEATS** (Polished Kota Stone) (Size: not exceeding 600mmX600mm)	70 SqM
5.		**STONE PAVING** (Natural finish kota stone) (Size: varies)	155 SqM
6.		**STONE SLABS FOR SEATING** (Jodhpur Ita Gold Sandstone) (Size: not exceeding 600mmX600mm)	35 SqM
7.		**STONE PAVING** (Jodhpur Ita Gold Sandstone) (Size: 200mm wide strips laid as per pattern)	50 SqM
8.		**SAND FILLING FOR CHILDREN'S PLAY AREA** (Layer : 300mm THK) (Area : 50 SqM)	15 CuM

LEGEND : TREES & HEDGES

Sr. No.	Symbol	Name	No.s
1.		PLUMERIA ALBA (Spacing:as shown)	32
2.		MESUA FERREA (Spacing: 6.0m c/c)	15
3.		ROYSTONEA REGIA (Spacing: 5.5m c/c)	37
4.		BAMBUSA VULGARIS (Spacing:0.5m c/c)	385
5.		BOUGAINVILLEA GLABRA (Planted @ 0.60 M c/c)(To be planted and maintained as 1.0 m tall hedge)	345

LEGEND : SHRUBS & LAWN

Sr. No.	Symbol	Name	Quantity
1.		Verbena officinalis (Spacing:0.3m c/c)	375 sq.m.
2.		Lantana Yellow (Spacing:0.35m c/c)	160 sq.m.
3.		Doob Grass lawn (Cynadon dactylon)	75 sq.m.
4.		Zoysia japonica tinufolia-carpet lawn (carpet lawn)	200 sq.m.
5.		Wadelia trilobata (Spacing:0.3m c/c)	260 sq.m.

ISSUE		DRN	DSN	CHD	CV	EL	IC	ME	PE/PM	APPD	DATE
P2	SIGN.										25-02-2019
	INITIALS	VVD	MSN	DM							
	REVISIONS	LANDSCAPE LAYOUT UPDATED AS PER REVISED MASTER PLAN									
P1	SIGN.										25-01-2019
	INITIALS	VVD	MSN	DM							
	REVISIONS	LANDSCAPE LAYOUT UPDATED AS PER REVISED MASTER PLAN									
P0	SIGN.										18-10-2018
	INITIALS	VVD	MSN	SS							
					CLEARED						

NOTE: LEVELS IN RESPECT OF THE SURVEY DWG ARE:

1. THE AVERAGE EXTERNAL ROAD LEVEL IS 187.26M
2. THE HFL FOR SITE IS 181.44M
3. FINISHED FLOOR LEVEL OF BASEMENT = 181.61M
4. FINISHED FLOOR LEVEL OF BASEMENT TOS IN NON TOWER AREA = 186.11M
5. FINISHED FLOOR LEVEL OF BASEMENT TOS IN TOWER AREA / PLINTH OF BUILDING = 187.56M

LEGEND : SIGNAGES

Sr.NO.	SYMBOL	DESCRIPTION	c/c DISTANCE	NO.S
1.		SIGNAGES	---	09
2.	CPE	CHILDREN'S PLAY EQUIPMENTS AT PLAY AREA AS PER SPECIFICATIONS	---	02

LEGEND : LIGHTING & EXTERNAL FURNITURE

Sr.NO.	SYMBOL	DESCRIPTION	c/c DISTANCE	NO.S
1.		POST TOP LIGHT (Ht. 3 M)	10 M	60
2.		STEP LIGHTS	--	40
3.		TREE UP-LIGHTER WITH ANGLE ADJUSTMENT AND SPIKE	--	36

FOR APPROVAL

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FILE NAME : TCE.10839A-AC-1001-LP-10531

ROURKELA SMART CITY LTD

PDMC FOR AREA BASED DEVELOPMENT

PANPOSH MARKET REDEVELOPMENT
SITE PLAN MASTER PLAN

TATA CONSULTING ENGINEERS LIMITED

SCALE	: 1:250	DWG NO.	TCE.10839A-AC-1001-LP-10531	ISSUE	P2
DC & DISC	: PUNE & INFRA				

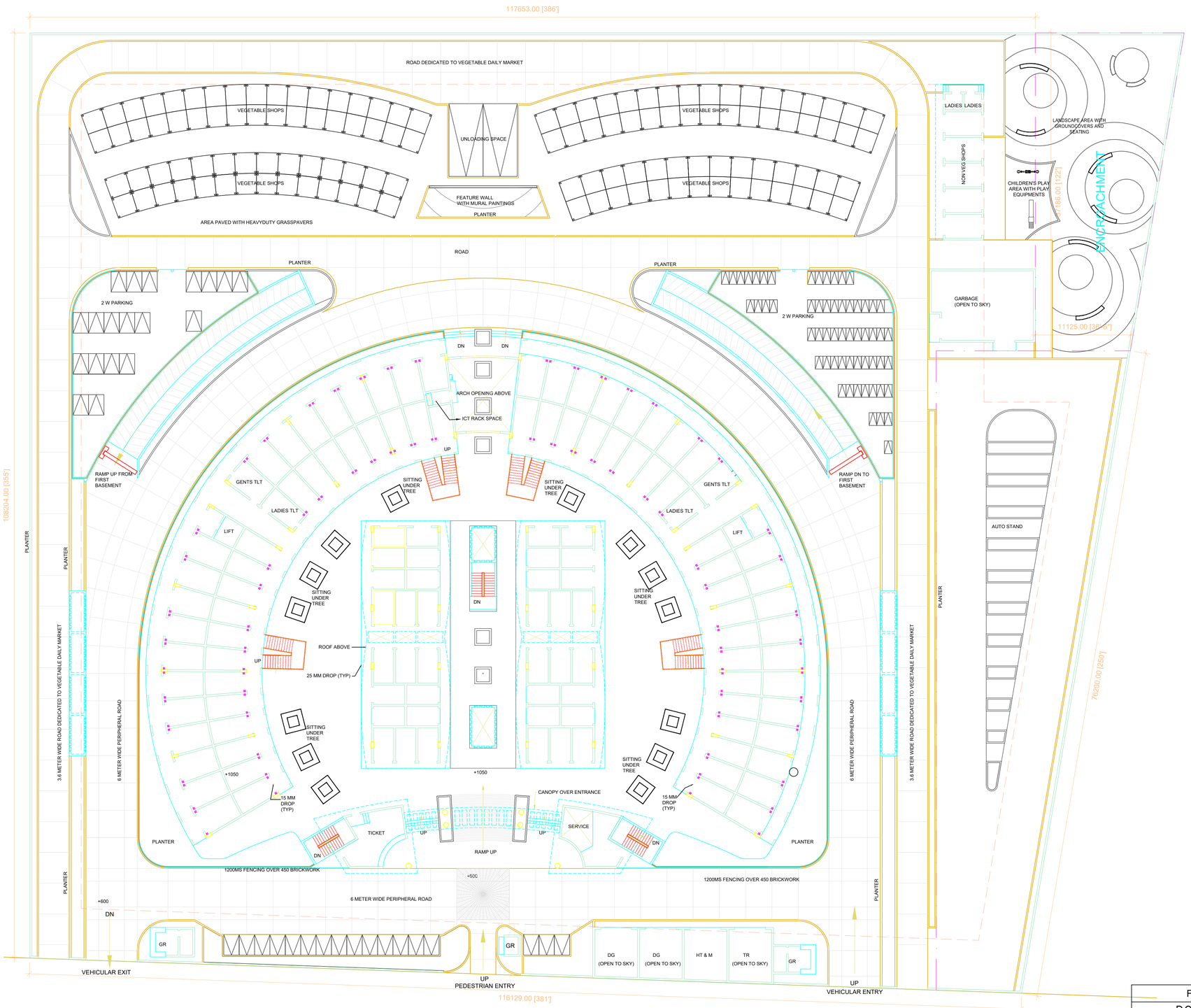
SIZE-A1

TCE FORM NO. 091 R0

FILE NAME: F-091-Rev-R0.dwg

TITLE: ROURKELA SMART CITY
PANPOSH MARKET REDEVOPMENT
EXTERNAL LEVELS PLAN

DWG NO: TCE.10839A-AC-1001-LP-10532



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ISSUE		DRN	DSN	CHD	CV	EL	IC	ME	PE/PM	APPD	DATE
P2	SIGN.										25-02-2019
	INITIALS	VVD	MSN	DM							
	REVISIONS	LANDSCAPE LAYOUT UPDATED AS PER REVISED MASTER PLAN									
P1	SIGN.										25-01-2019
	INITIALS	VVD	MSN	DM							
	REVISIONS	LANDSCAPE LAYOUT UPDATED AS PER REVISED MASTER PLAN									
P0	SIGN.										18-10-2018
	INITIALS	VVD	MSN	SS							
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FILE NAME : TCE.10839A-AC-1001-LP-10532

ROURKELA SMART CITY LTD.

ROURKELA SMART CITY LTD

PDMC FOR AREA BASED DEVELOPMENT

PANPOSH MARKET REDEVELOPMENT
EXTERNAL LEVELS PLAN

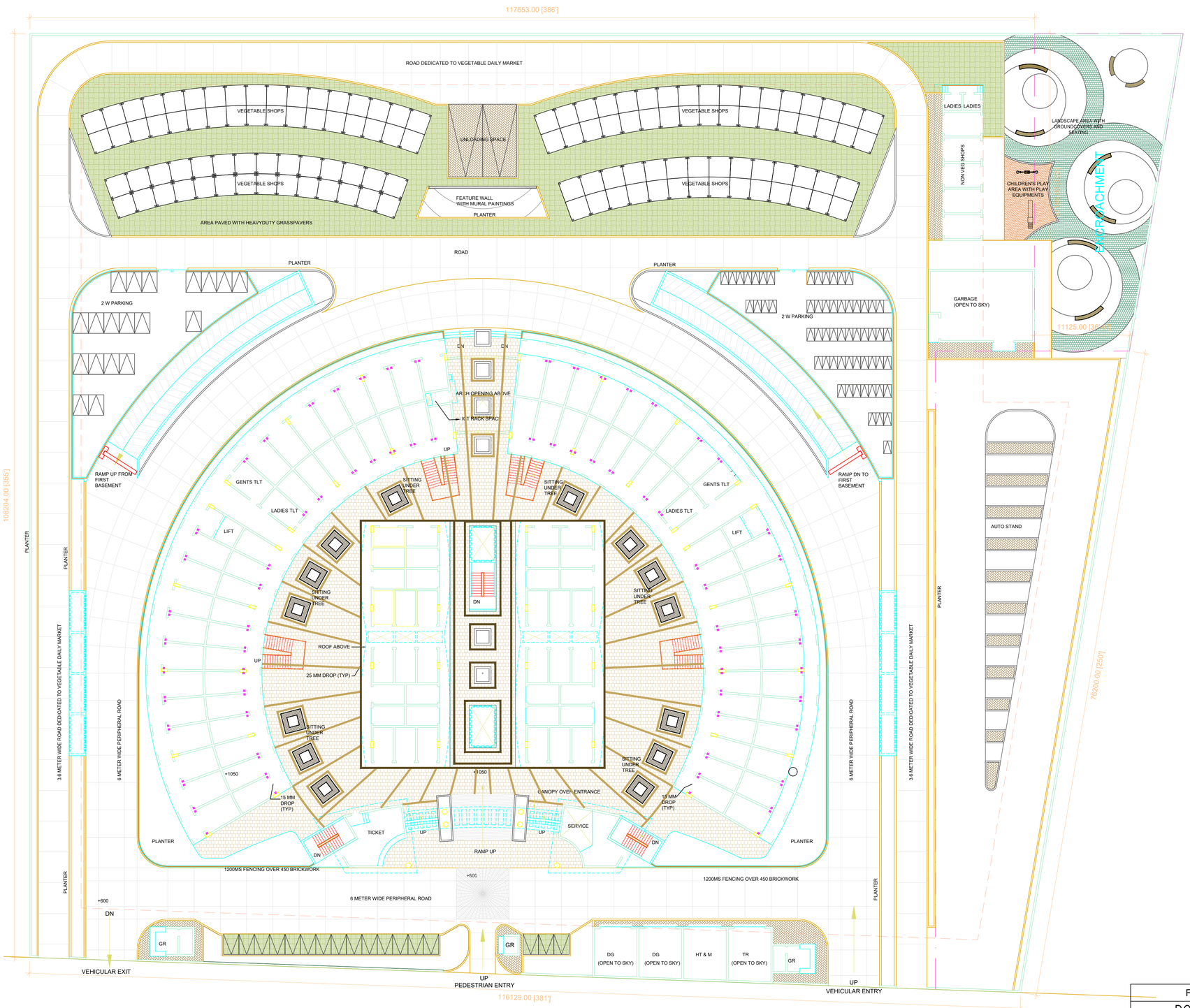
TATA CONSULTING ENGINEERS LIMITED

SCALE : 1:250
DC & DISC : PUNE & INFRA
DWG NO. TCE.10839A-AC-1001-LP-10532
ISSUE P2
SIZE-A1

FILE NAME: F-091-Rev-R0.dwg

TCE FORM NO. 091 R0

TITLE:	DWG NO
ROURKELA SMART CITY PANPOSH MARKET REDEVOPMENT HARDSCAPE PLAN	TCE.10839A-AC-1001-LP-10533



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LEGEND : HARDSCAPE FINISHES

Sr. No.	SYMBOL	DESCRIPTION	QUANTITY
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2.		**INTERLOCKING PAVER BLOCKS WITH PEBBLE JOINT** (Colour: Terracotta) (60 mm THK)	**240 SqM**
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ISSUE		DRN	DSN	CHD	CV	EL	IC	ME	PE/PM	APPD	DATE
P2	SIGN.										25-02-2019
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ROURKELA SMART CITY LTD.

ROURKELA SMART CITY LTD

PDMC FOR AREA BASED DEVELOPMENT

PANPOSH MARKET REDEVELOPMENT HARDSCAPE PLAN

TATA CONSULTING ENGINEERS LIMITED

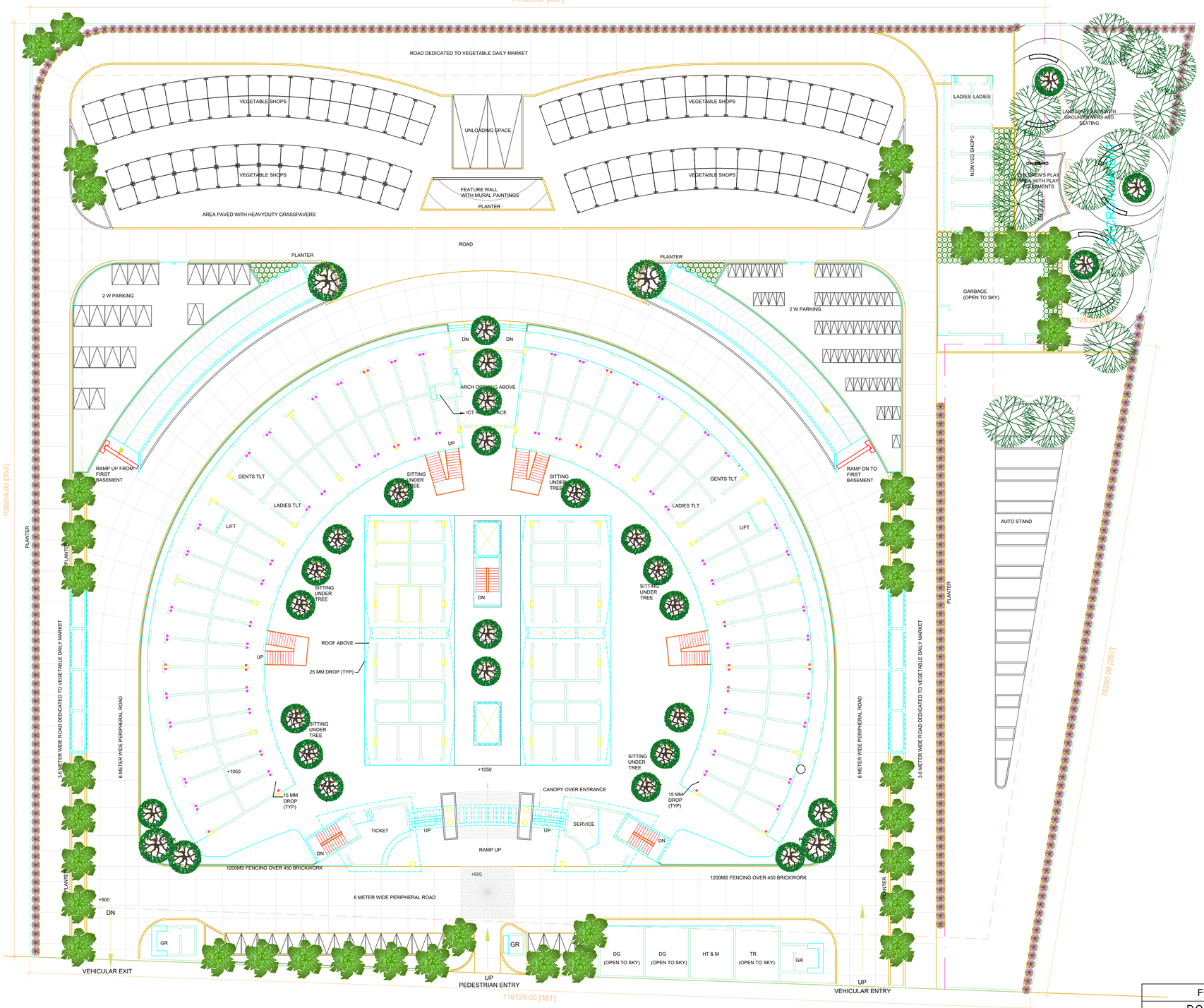
SCALE	DWG NO.	ISSUE
: 1:250	TCE.10839A-AC-1001-LP-10533	P2
DC & DISC : PUNE & INFRA		

SIZE-A1

TCE FORM NO. 091 R0

FILE NAME: F-091-Rev-R0.dwg

TITLE: ROURKELA SMART CITY
PANPOSH MARKET REDEVOPMENT
PLANTING PLAN - TREES
DWG NO TCE.10839A-AC-1001-LP-10534



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LEGEND : TREES & HEDGES

Sr. No.	Symbol	Name	No.s
1.		PLUMERIA ALBA (Spacing:as shown)	32
2.		MESUA FERREA (Spacing: 6.0m c/c)	15
3.		ROYSTONEA REGIA (Spacing: 5.5m c/c)	37
4.		BAMBUSA VULGARIS (Spacing:0.5m c/c)	385
5.		BOUGAINVILLEA GLABRA (Planted @ 0.60 M c/c)(To be planted and maintained as 1.0 m tall hedge)	345

ISSUE		DRN	DSN	CHD	CV	EL	IC	ME	PE/PM	APPD	DATE
P2	SIGN.										25-02-2019
	INITIALS	VVD	MSN	DM							
	REVISIONS	LANDSCAPE LAYOUT UPDATED AS PER REVISED MASTER PLAN									
P1	SIGN.										25-01-2019
	INITIALS	VVD	MSN	DM							
	REVISIONS	LANDSCAPE LAYOUT UPDATED AS PER REVISED MASTER PLAN									
P0	SIGN.										18-10-2018
	INITIALS	VVD	MSN	SS							

CLEARED

FOR APPROVAL

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ROURKELA SMART CITY LTD.

ROURKELA SMART CITY LTD

PDMC FOR AREA BASED DEVELOPMENT

PANPOSH MARKET REDEVELOPMENT
PLANTING PLAN - TREES

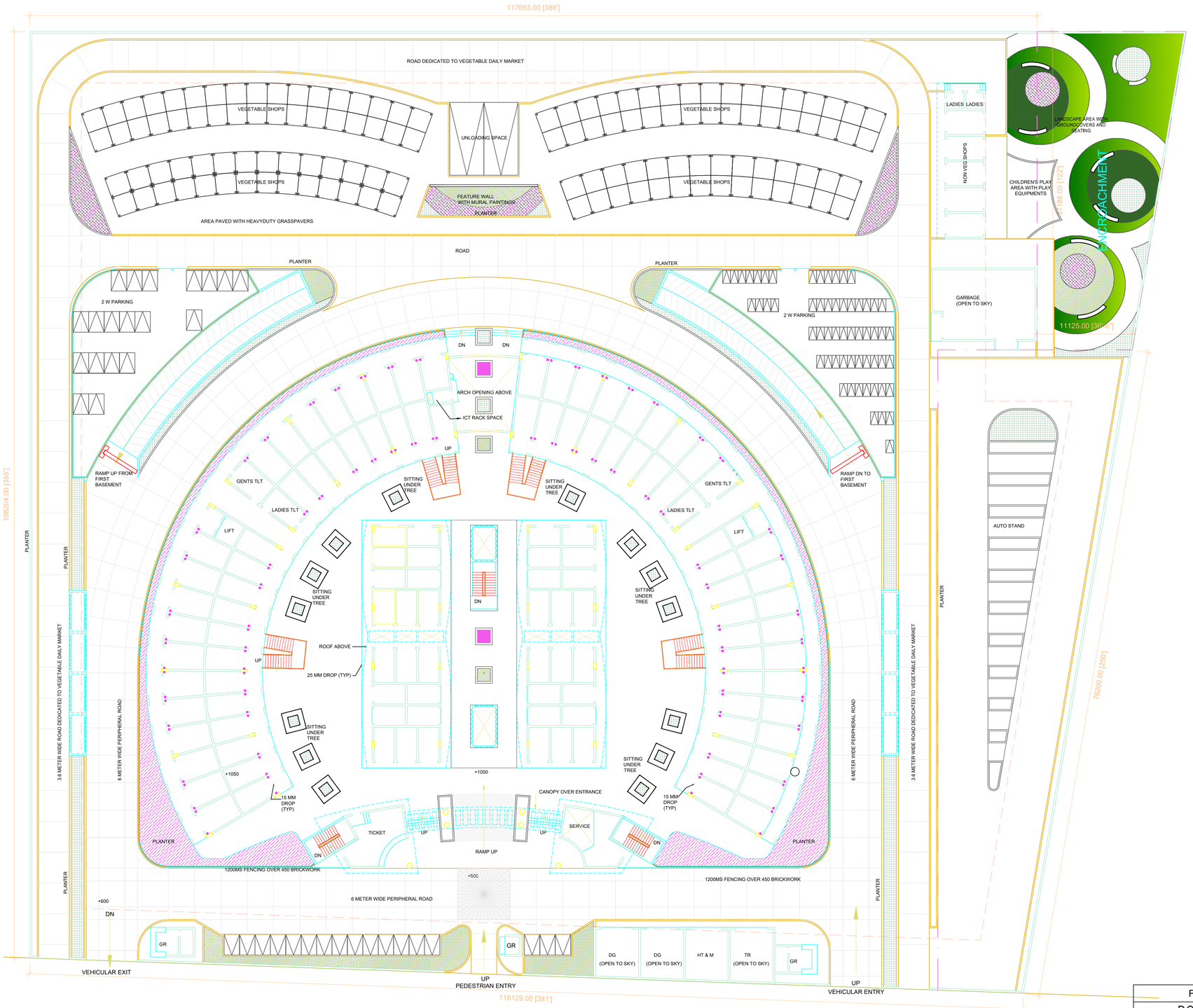
TATA CONSULTING ENGINEERS LIMITED

SCALE : 1:250	DWG NO. TCE.10839A-AC-1001-LP-10534	ISSUE P1	SIZE-A1
DC & DISC : PUNE & INFRA			

FILE NAME : TCE.10839A-AC-1001-LP-10534

FILE NAME: F-091-Rev-R0.dwg

TCE FORM NO. 091 R0



NOTES

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LEGEND : SHRUBS & LAWN

Sr. No.	Symbol	Name	Quantity
1.		Verbena officinalis (Spacing:0.3m c/c)	375 sq.m.
2.		Lantana Yellow (Spacing:0.35m c/c)	160 sq.m.
3.		Doob Grass lawn (Cynadon dactylon)	75 sq.m.
4.		Zoysia japonica tinufolia-carpet lawn (carpet lawn)	200 sq.m.
5.		Wadelia trilobata (Spacing:0.3m c/c)	260 sq.m.

ISSUE		DRN	DSN	CHD	CV	EL	IC	ME	PE/PM	APPD	DATE
P2	SIGN.										25-02-2019
	INITIALS	VVD	MSN	DM							
	REVISIONS	LANDSCAPE LAYOUT UPDATED AS PER REVISED MASTER PLAN									
P1	SIGN.										25-01-2019
	INITIALS	VVD	MSN	DM							
	REVISIONS	LANDSCAPE LAYOUT UPDATED AS PER REVISED MASTER PLAN									
P0	SIGN.										18-10-2018
	INITIALS	VVD	MSN	SS							

CLEARED

FOR APPROVAL

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FILE NAME : TCE.10839A-AC-1001-LP-10535

ROURKELA SMART CITY LTD

PDMC FOR AREA BASED DEVELOPMENT

PANPOSH MARKET REDEVELOPMENT
PLANTING PLAN - SHRUBS

TATA CONSULTING ENGINEERS LIMITED

SCALE : 1:250

DC & DISC : PUNE & INFRA

DWG NO. TCE.10839A-AC-1001-LP-10535

ISSUE P1

SIZE-A1

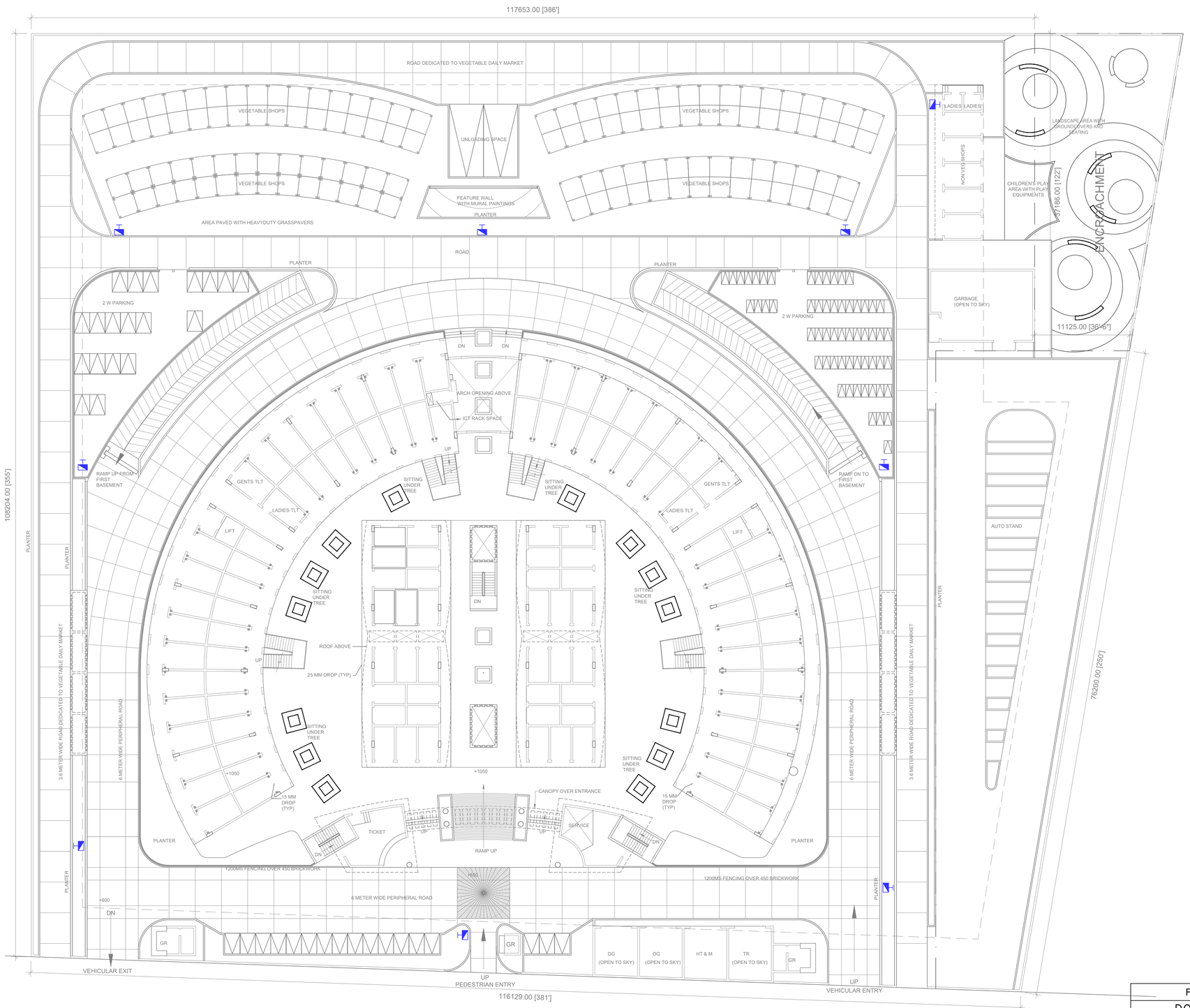
TCE FORM NO. 091 R0

FILE NAME: F-091-Rev-R0.dwg

TITLE: ROURKELA SMART CITY
PANPOSH MARKET REDEVOPMENT
PLANTING PLAN - SHRUBS

DWG NO TCE.10839A-AC-1001-LP-10535

TITLE:	DWG NO
ROURKELA SMART CITY PANPOSH MARKET REDEVOPMENT SIGNAGES PLAN	TCE.10839A-AC-1001-LP-10536



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LEGEND : SIGNAGES

Sr.NO.	SYMBOL	DESCRIPTION	c/c DISTANCE	NO.S
1.		SIGNAGES	---	09
2.	CPE	CHILDREN'S PLAY EQUIPMENTS AT PLAY AREA AS PER SPECIFICATIONS	---	02

ISSUE		DRN	DSN	CHD	CV	EL	IC	ME	PE/PM	APPD	DATE
P2	SIGN.										25-02-2019
	INITIALS	VVD	MSN	DM							
	REVISIONS	LANDSCAPE LAYOUT UPDATED AS PER REVISED MASTER PLAN									
P1	SIGN.										25-01-2019
	INITIALS	VVD	MSN	DM							
	REVISIONS	LANDSCAPE LAYOUT UPDATED AS PER REVISED MASTER PLAN									
P0	SIGN.										18-10-2018
	INITIALS	VVD	MSN	SS							

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ROURKELA SMART CITY LTD

PDMC FOR AREA BASED DEVELOPMENT

PANPOSH MARKET REDEVELOPMENT SIGNAGES PLAN

TATA CONSULTING ENGINEERS LIMITED

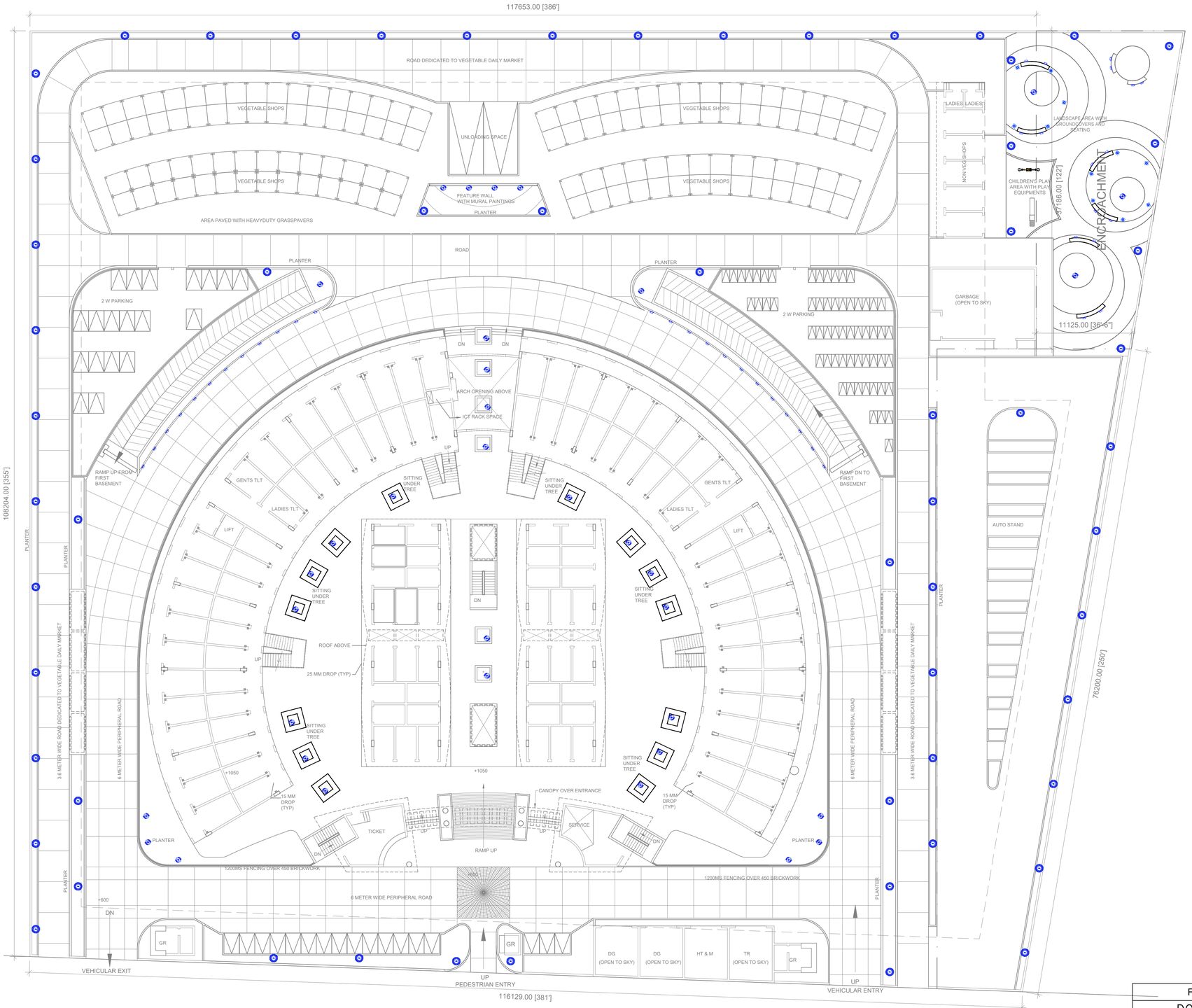
SCALE : 1:250	DWG NO. TCE.10839A-AC-1001-LP-10536	ISSUE P1	SIZE-A1
DC & DISC : PUNE & INFRA			

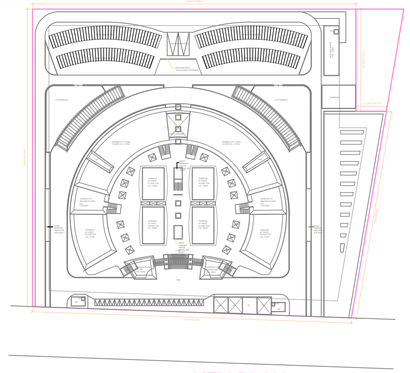
FILE NAME : TCE.10839A-AC-1001-LP-10536

FILE NAME: F-091-Rev-R0.dwg

TCE FORM NO. 091 R0

TITLE:	DWG NO
ROURKELA SMART CITY PANPOSH MARKET REDEVOPMENT LIGHTING PLAN	TCE.10839A-AC-1001-LP-10537





KEY PLAN

(SCALE : NTS)

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LEGEND : LIGHTING & EXTERNAL FURNITURE

Sr.NO.	SYMBOL	DESCRIPTION	c/c DISTANCE	NO.S
1.		POST TOP LIGHT (Ht. 3 M)	10 M	60
2.		STEP LIGHTS	--	40
3.		TREE UP-LIGHTER WITH ANGLE ADJUSTMENT AND SPIKE	--	36

ISSUE		DRN	DSN	CHD	CV	EL	IC	ME	PE/PM	APPD	DATE
P2	SIGN.										25-02-2019
	INITIALS	VVD	MSN	DM							
	REVISIONS	LANDSCAPE LAYOUT UPDATED AS PER REVISED MASTER PLAN									
P1	SIGN.										25-01-2019
	INITIALS	VVD	MSN	DM							
	REVISIONS	LANDSCAPE LAYOUT UPDATED AS PER REVISED MASTER PLAN									
P0	SIGN.										18-10-2018
	INITIALS	VVD	MSN	SS							

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FILE NAME : TCE.10839A-AC-1001-LP-10537

ROURKELA SMART CITY LTD

PDMC FOR AREA BASED DEVELOPMENT

PANPOSH MARKET REDEVELOPMENT LIGHTING PLAN

TATA CONSULTING ENGINEERS LIMITED

SCALE : 1:250

DC & DISC : PUNE & INFRA

DWG NO. TCE.10839A-AC-1001-LP-10537

ISSUE P1

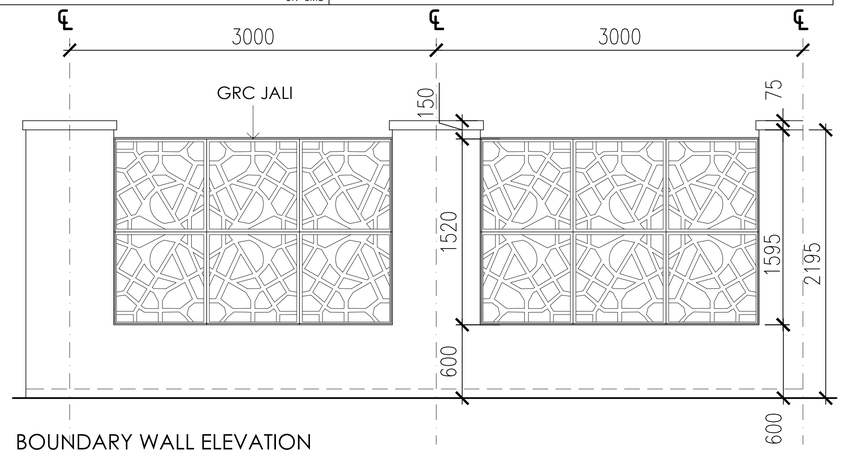
SIZE-A1

TCE FORM NO. 091 R0

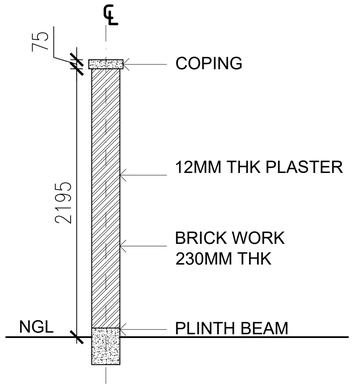
FILE NAME: F-091-Rev-R0.dwg

TITLE: ROURKELA SMART CITY
PANPOSH MARKET REDEVELOPMENT
BOUNDARY WALL DETAILS

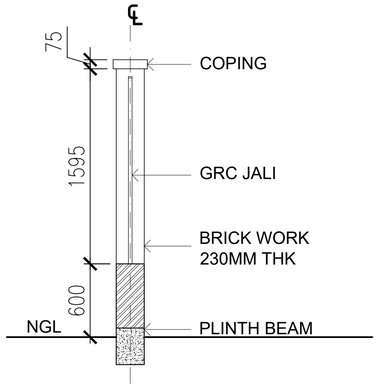
DWG NO TCE.10839A-AC-1010-AC-10168



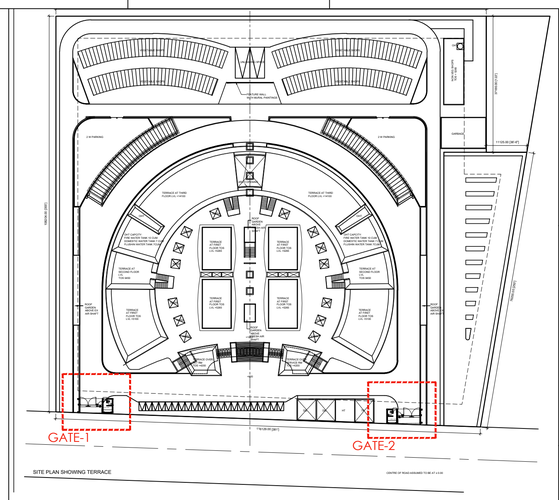
BOUNDARY WALL ELEVATION



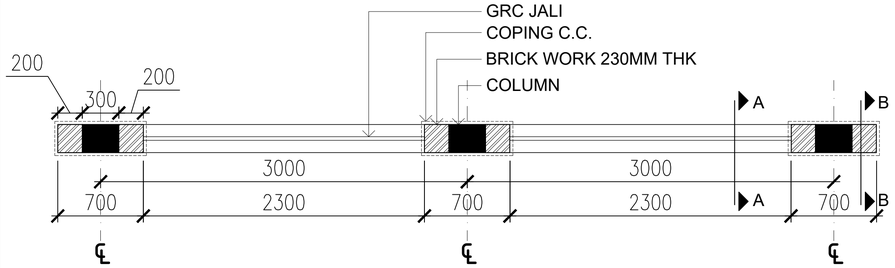
BOUNDARY WALL TYPICAL SECTION BB



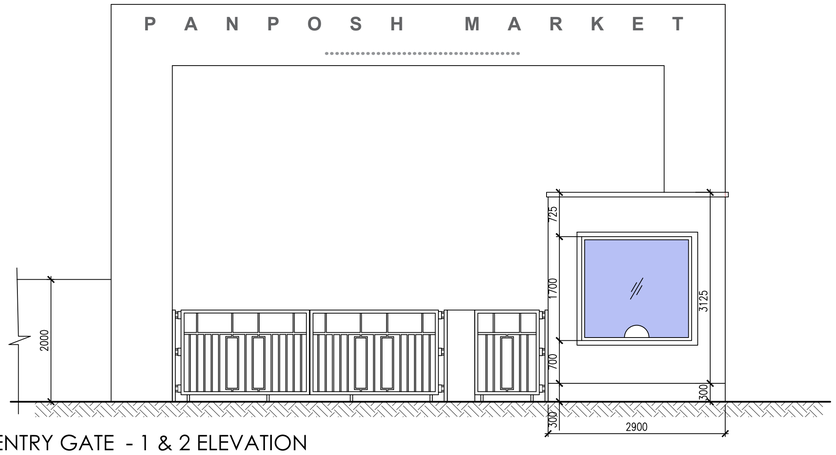
BOUNDARY WALL TYPICAL SECTION AA



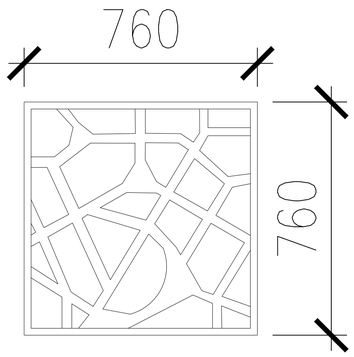
key plan



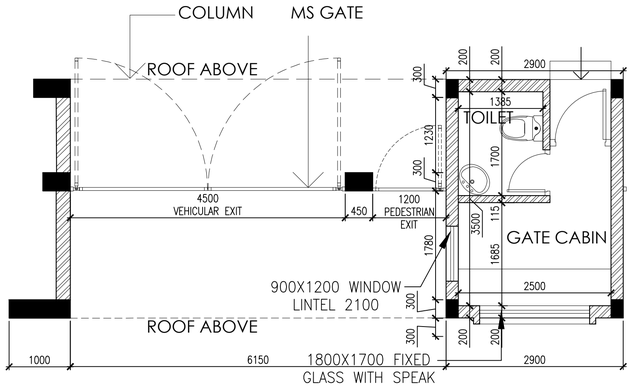
BOUNDARY WALL PLAN



ENTRY GATE - 1 & 2 ELEVATION



GRC PANEL DETAIL



ENTRY GATE - 1 & 2 PLAN

N

NOTE : DRAINAGE LAYOUT SHALL BE WORKED OUT IN DETAIL PLAN LAYOUT

	SIGN.											
	INITIALS											
	REVISIONS											
	SIGN.											
	INITIALS											
	REVISIONS											
P0	SIGN.											10-05-2019
	INITIALS											
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME		PE/PM	APPD	DATE
					CLEARED							

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FILE NAME : TCE.10839A-AC-1010-AC-10168-P0

ROURKELA SMART CITY LTD.

ROURKELA SMART CITY LTD

PDMC FOR AREA BASED DEVELOPMENT

PANPOSH MARKET
BOUNDRY WALL AND GATE 1 & 2 DESIGN

TATA CONSULTING ENGINEERS LIMITED

SCALE : 1:150
DC & DISC : Noida
DWG NO. TCE.10839A-AC-1010-AC-10168
ISSUE P0

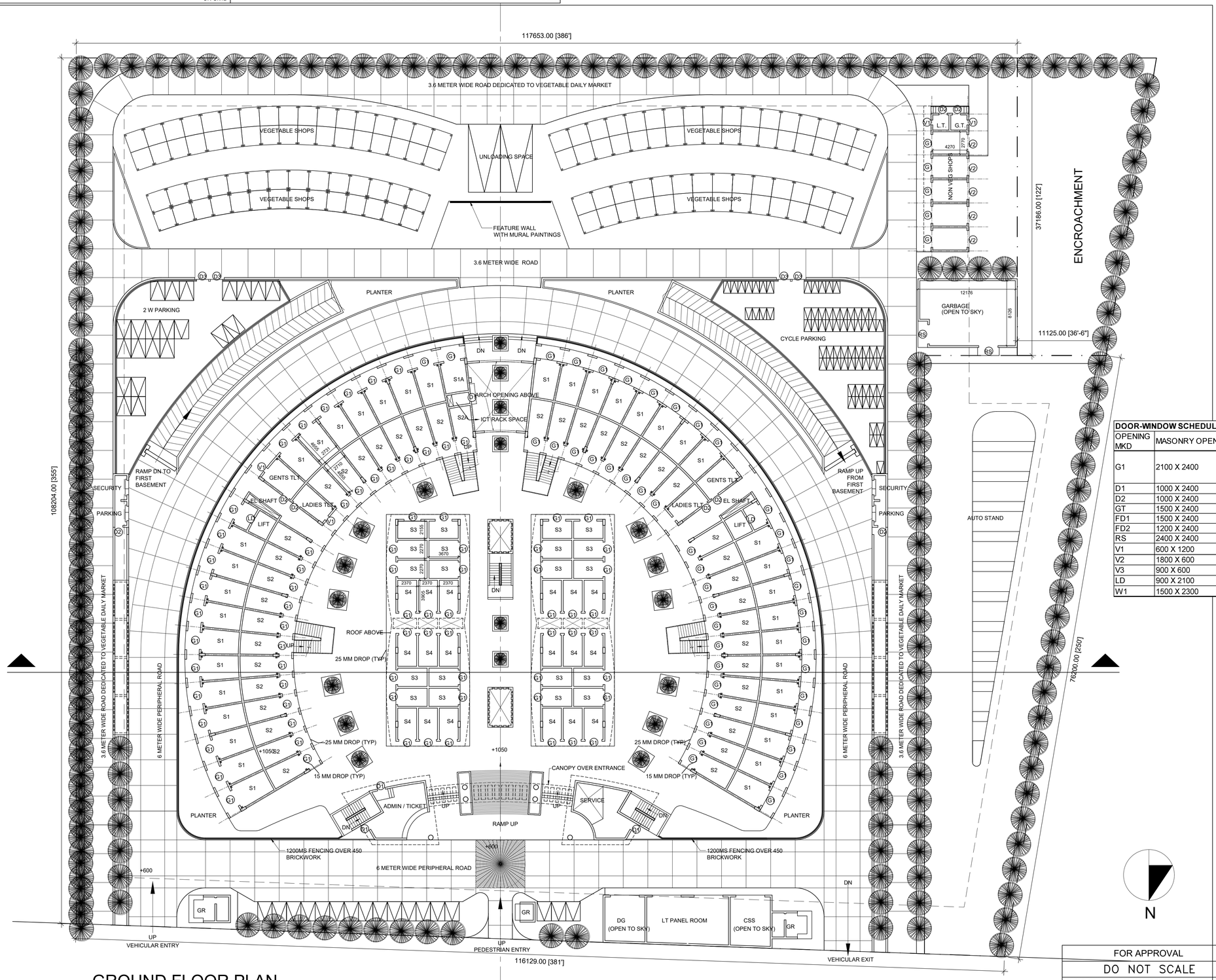
SIZE-A1

FILE NAME: F-091-Rev-R0.dwg

TCE FORM NO. 091 R0

TITLE: ROURKELA SMART CITY
PANPOSH MARKET REDEVELOPMENT
GROUND FLOOR PLAN

DWG NO: TCE.10839A-AC-10501-AC-10503



GROUND FLOOR PLAN
LVL + 1050

AREA OF RCC / BRICK STRUCTURE 2480.24 SQM
AREA OF VEGETABLE MARKET
(STEEL AND FRP SHEETS) = 716 SQM

DOOR-WINDOW SCHEDULE

OPENING MKD	MASONRY OPENING	LOCATION	LINTEL	SILL	DESCRIPTION
G1	2100 X 2400	SHOPS	2400	±0.00/+100	FRAMELESS FIXED GLAZING WITH 1200 OPENABLE SHUTTER AND MS ROLLING SHUTTER ON OUTER FAÇADE
D1	1000 X 2400	STAIRCASE	2400	±0.00/+100	STEEL DOORS
D2	1000 X 2400	TOILETS	2400	±0.00/+100	STEEL DOORS
GT	1500 X 2400	PARKING	2400	±0.00/+100	MS GATE
FD1	1500 X 2400	BASEMENT	2400	±0.00/+100	DOUBLE SHUTTER STEEL DOOR WITH VISION PANEL
FD2	1200 X 2400	BASEMENT	2400	±0.00/+100	SINGLE SHUTTER STEEL DOOR WITH VISION PANEL
RS	2400 X 2400	GARBAGE	2400	±0.00/+100	MS ROLLING SHUTTER
V1	600 X 1200	TOILETS	2400	1200	AL FRAMED GLAZED FIXED SHUTTER WITH EX FAN
V2	1800 X 600	NON-VEG SOPS	2400	600	AL FRAMED CENTRAL HUNG GLAZED SHUTTERS
V3	900 X 600	SHAFT	1500	900	ACCESS PANEL WITH FRP LOUVERS
LD	900 X 2100	LIFT	2100	±0.00	SS DOOR SHUTTERS
W1	1500 X 2300	SHOPS	2400	100	AL FRAMED FIXED GLAZING

ISSUE		DRN	DSN	CHD	CV	EL	IC	ME	PE/PM	APPD	DATE
	SIGN.										
	INITIALS										
	REVISIONS										
	SIGN.										
	INITIALS										
	REVISIONS										
P1	SIGN.										10-05-2019
	INITIALS										
					CLEARED						17-07-2017

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ROURKELA SMART CITY LTD

PDMC FOR AREA BASED DEVELOPMENT

PANPOSH MARKET REDEVELOPMENT
GROUND FLOOR PLAN

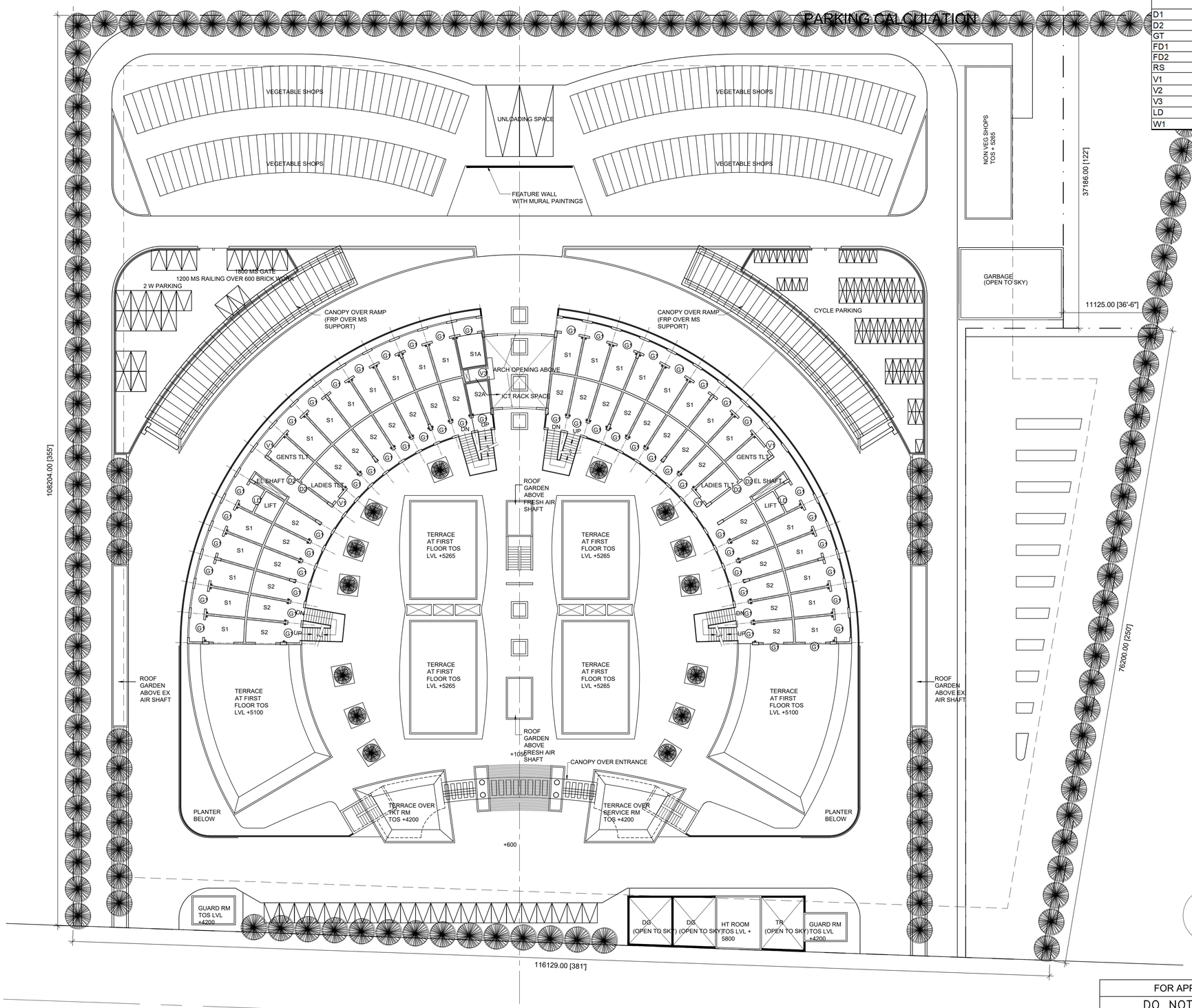
TATA CONSULTING ENGINEERS LIMITED

SCALE : 1:300
DC & DISC : NOIDA
DWG NO TCE.10839A-AC-10501-AC-10503
ISSUE P1
SIZE-A1
FILE NAME : TCE.10839A-AC-10501-AC-10503 - P1
TCE FORM NO. 091 R0
FILE NAME: F-091-Rev-R0.dwg

TCE.10839A-AC-10501-AC-10504
DWG NO

ROURKELA SMART CITY
PANPOSH MARKET REDEVELOPMENT
FIRST FLOOR PLAN
TITLE:

PARKING CALCULATION



DOOR-WINDOW SCHEDULE					
OPENING MKD	MASONRY OPENING	LOCATION	LINTEL	SILL	DESCRIPTION
G1	2100 X 2400	SHOPS	2400	±0.00/+100	FRAMELESS FIXED GLAZING WITH 1200 OPENABLE SHUTTER AND MS ROLLING SHUTTER ON OUTER FAÇADE
D1	1000 X 2400	STAIRCASE	2400	±0.00/+100	STEEL DOORS
D2	1000 X 2400	TOILETS	2400	±0.00/+100	STEEL DOORS
GT	1500 X 2400	PARKING	2400	±0.00/+100	MS GATE
FD1	1500 X 2400	BASEMENT	2400	±0.00/+100	DOUBLE SHUTTER STEEL DOOR WITH VISION PANEL
FD2	1200 X 2400	BASEMENT	2400	±0.00/+100	SINGLE SHUTTER STEEL DOOR WITH VISION PANEL
RS	2400 X 2400	GARBAGE	2400	±0.00/+100	MS ROLLING SHUTTER
V1	600 X 1200	TOILETS	2400	1200	AL FRAMED GLAZED FIXED SHUTTER WITH EX FAN
V2	1800 X 600	NON-VEG SOPS	2400	600	AL FRAMED CENTRAL HUNG GLAZED SHUTTERS
V3	900 X 600	SHAFT	1500	900	ACCESS PANEL WITH FRP LOUVERS
LD	900 X 2100	LIFT	2100	±0.00	SS DOOR SHUTTERS
W1	1500 X 2300	SHOPS	2400	100	AL FRAMED FIXED GLAZING

GROUND FLOOR					
		GROSS AREA		CARPET AREA	
SHOP MARKED	NUMBERS	SQM	SFT	SQM	SFT
S1	37	22.15	238.423	13.6	146.39
S1A	1	19.68	211.836	11.4	122.71
S2	39	17.97	193.429	11.55	124.324
S2A	1	15.55	167.38	9.4	101.182
S3	20	10.03	107.963	7.9	85.0356
S4	18	11.05	118.942	9.25	99.567

FIRST FLOOR					
		GROSS AREA		CARPET AREA	
SHOP MARKED	NUMBERS	SQM	SFT	SQM	SFT
S1	25	22.15	238.423	13.6	146.39
S1A	1	19.68	211.836	11.4	122.71
S2	27	17.97	193.429	11.55	124.324
S2A	1	15.55	167.38	9.4	101.182
S3	0		0		0
S4	0		0		0

SECOND FLOOR					
		GROSS AREA		CARPET AREA	
SHOP MARKED	NUMBERS	SQM	SFT	SQM	SFT
S1	19	22.15	238.423	13.6	146.39
S1A	1	19.68	211.836	11.4	122.71
S2	21	17.97	193.429	11.55	124.324
S2A	1	15.55	167.38	9.4	101.182
S3	0		0		0
S4	0		0		0

FIRST FLOOR PLAN
LEVEL + 5400

AREA OF RCC / BRICK STRUCTURE 1290.575 SQM

CENTRE OF ROAD ASSUMED TO BE AT ± 0.00

ISSUE		DRN	DSN	CHD	CV	EL	IC	ME	PE/PM	APPD	DATE
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	REVISIONS										
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	REVISIONS										
P1	SIGN.										10-05-2019
	INITIALS										
					CLEARED						17-07-2017

FOR APPROVAL

DO NOT SCALE

'P' (PRELIMINARY) ISSUES ARE NOT TO BE USED FOR CONSTRUCTION / FABRICATION BUT ARE ISSUED FOR LIMITED PURPOSES ONLY AS INDICATED IN THE SMALL BLOCK ABOVE THIS BLOCK.

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FILE NAME : TCE.10839A-AC-10501-AC-10504 - P1

ROURKELA SMART CITY LTD.

ROURKELA SMART CITY LTD

PDMC FOR AREA BASED DEVELOPMENT

PANPOSH MARKET REDEVELOPMENT
FIRST FLOOR PLAN

TATA CONSULTING ENGINEERS LIMITED

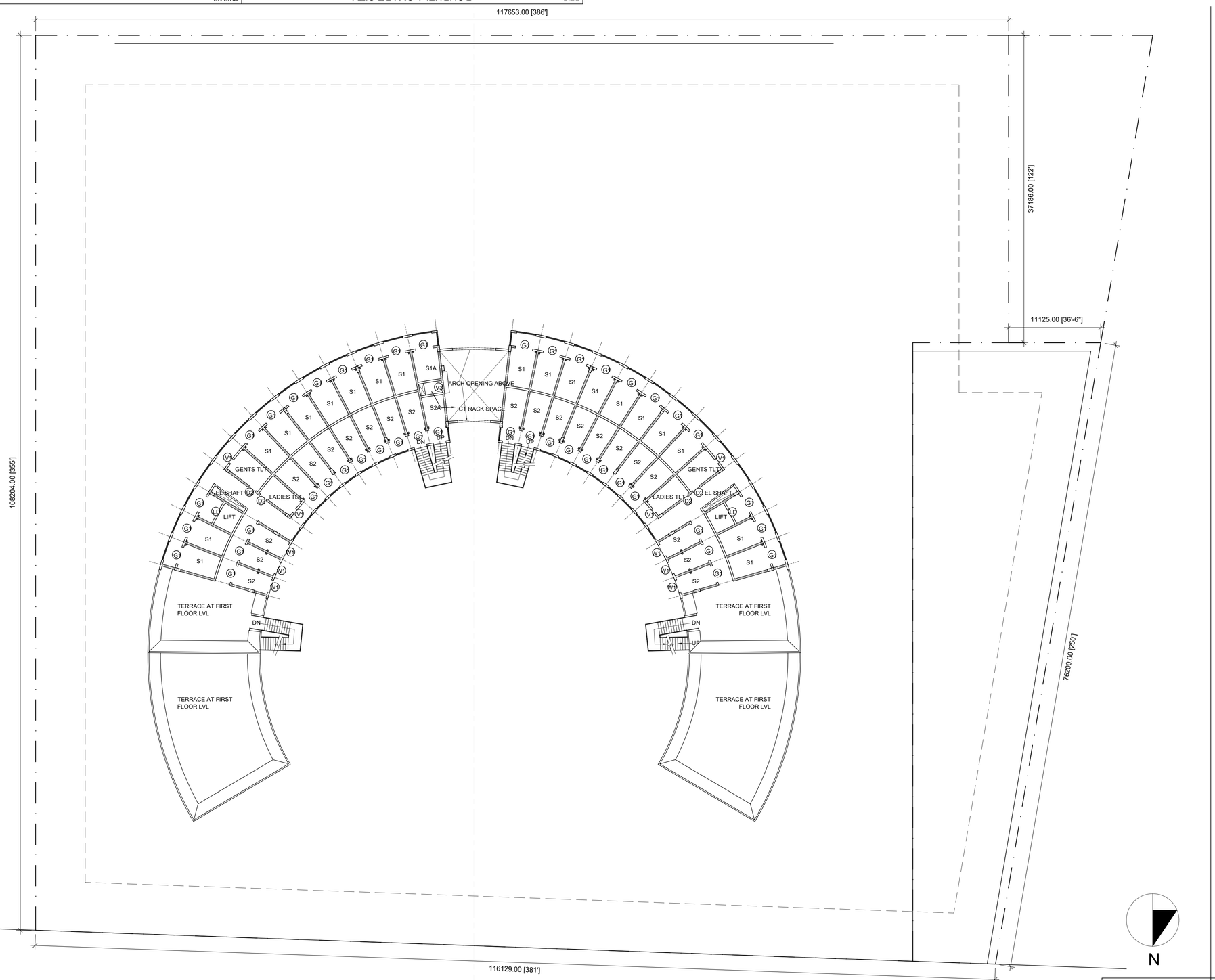
SCALE : 1:300
DC & DISC : NOIDA
DWG NO TCE.10839A-AC-10501-AC-10504
ISSUE P1
SIZE-A1

FILE NAME: F-091-Rev-R0.dwg

TCE FORM NO. 091 R0

TITLE: ROURKELA SMART CITY
PANPOSH MARKET REDEVELOPMENT
SECOND FLOOR PLAN

DWG NO: TCE.10839A-AC-10501-AC-10505



SECOND FLOOR PLAN
LEVEL +9750

AREA OF RCC / BRICK STRUCTURE 1083.76 SQM

CENTRE OF ROAD ASSUMED TO BE AT ± 0.00

FOR APPROVAL

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	REVISIONS												
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P1	SIGN.												10-05-2019
	INITIALS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE 17-07-2017
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ROURKELA SMART CITY LTD.

ROURKELA SMART CITY LTD

PDMC FOR AREA BASED DEVELOPMENT

PANPOSH MARKET REDEVELOPMENT
SECOND FLOOR PLAN

TATA CONSULTING ENGINEERS LIMITED

SCALE : 1:300
DC & DISC : NOIDA
FILE NAME : TCE.10839A-AC-10501-AC-10505 - P1
DWG NO. TCE.10839A-AC-10501-AC-10505
ISSUE P1
SIZE-A1

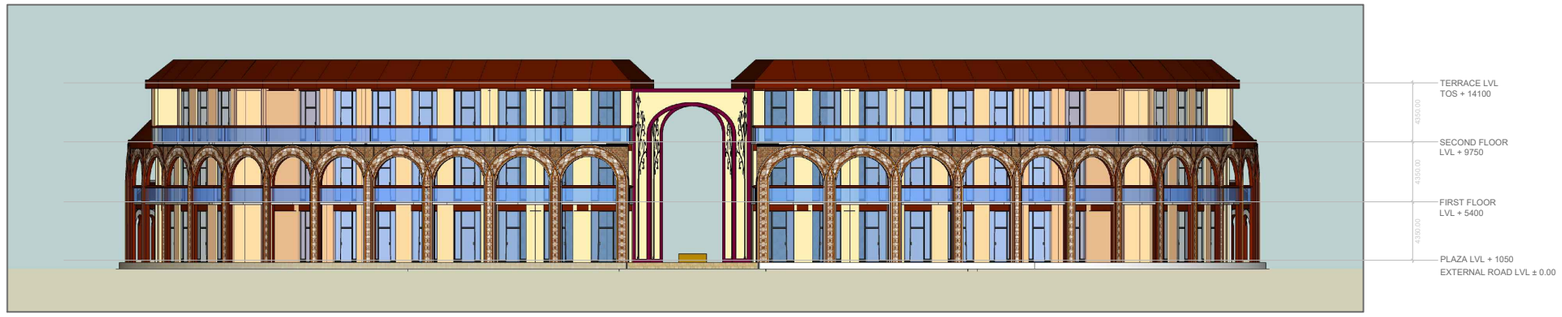
FILE NAME: F-091-Rev-R0.dwg

TCE FORM NO. 091 R0

TITLE: ROURKELA SMART CITY
PANPOSH MARKET REDEVELOPMENT
SECTIONS AND ELEVATIONS

DWG NO TCE.10839A-AC-10501-AC-10506

FRONT ELEVATION



BACK ELEVATION

LEFT ELEVATION

RIGHT ELEVATION

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	INITIALS											
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	SIGN.											
	INITIALS											
	REVISIONS											
P1	SIGN.											10-05-2019
	INITIALS											
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME		PE/PM	APPD	DATE 17-07-2017
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FILE NAME : TCE.10839A-AC-10501-AC-10506 - P1

ROURKELA SMART CITY LTD

PDMC FOR AREA BASED DEVELOPMENT

PANPOSH MARKET REDEVELOPMENT
SECTIONS AND ELEVATIONS

TATA CONSULTING ENGINEERS LIMITED

SCALE : 1:300
DC & DISC : NOIDA

DWG NO. TCE.10839A-AC-10501-AC-10506

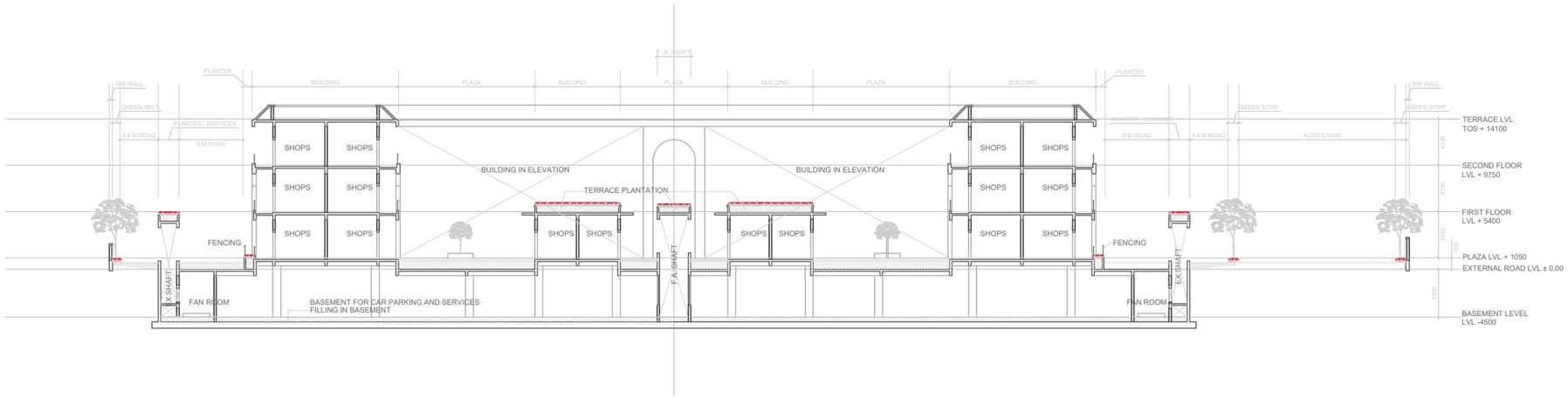
ISSUE P1

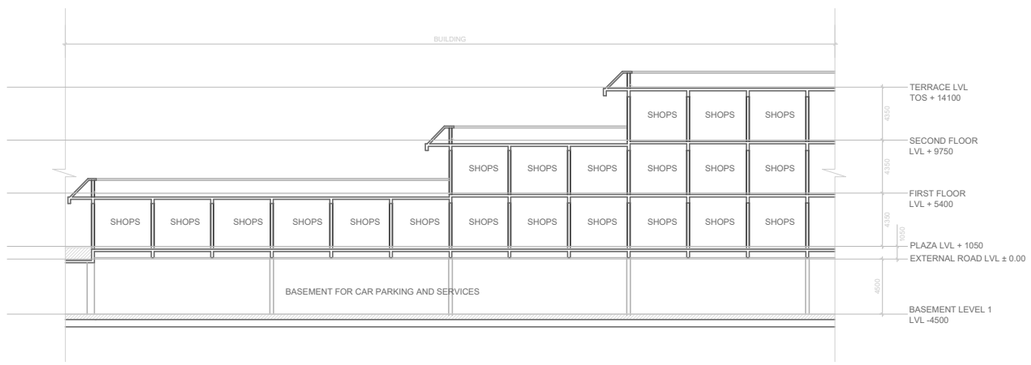
SIZE-A1

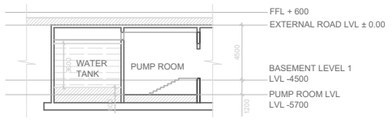
FILE NAME: F-091-Rev-R0.dwg

TCE FORM NO. 091 R0

TITLE:	DWG NO
ROURKELA SMART CITY PANPOSH MARKET REDEVELOPMENT SECTIONS AND ELEVATIONS	TCE.10839A-AC-10501-AC-10507







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P1	SIGN.											10-05-2019
	INITIALS											
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME		PE/PM	APPD	DATE 17-07-2017
					CLEARED							

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FILE NAME : TCE.10839A-AC-10501-AC-10507 - P1

ROURKELA SMART CITY LTD

PDMC FOR AREA BASED DEVELOPMENT

PANPOSH MARKET REDEVELOPMENT
SECTIONS AND ELEVATIONS

TATA CONSULTING ENGINEERS LIMITED

SCALE : 1:300	DWG NO. TCE.10839A-AC-10501-AC-10507	ISSUE P1
DC & DISC : NOIDA		

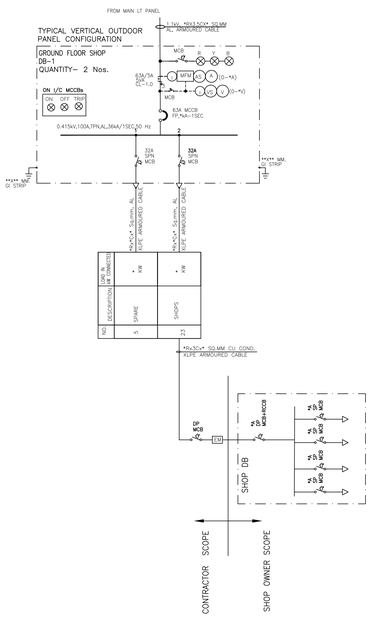
SIZE-A1

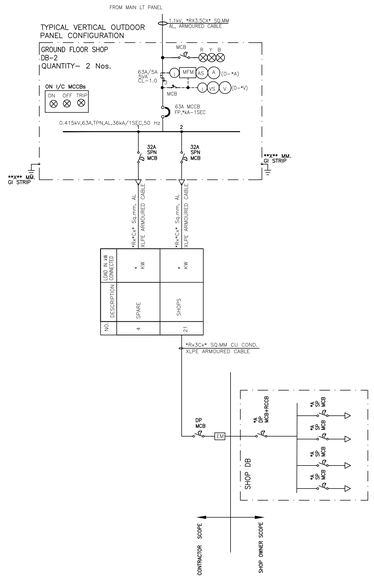
FILE NAME: F-091-Rev-R0.dwg

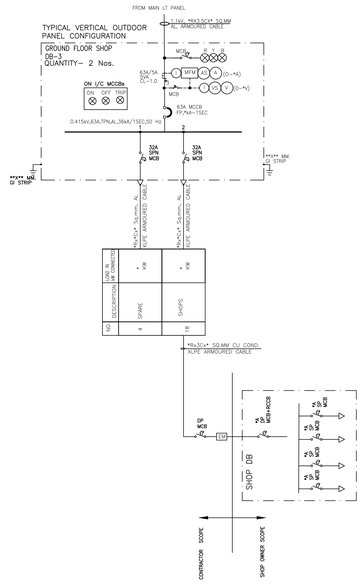
TCE FORM NO. 091 R0

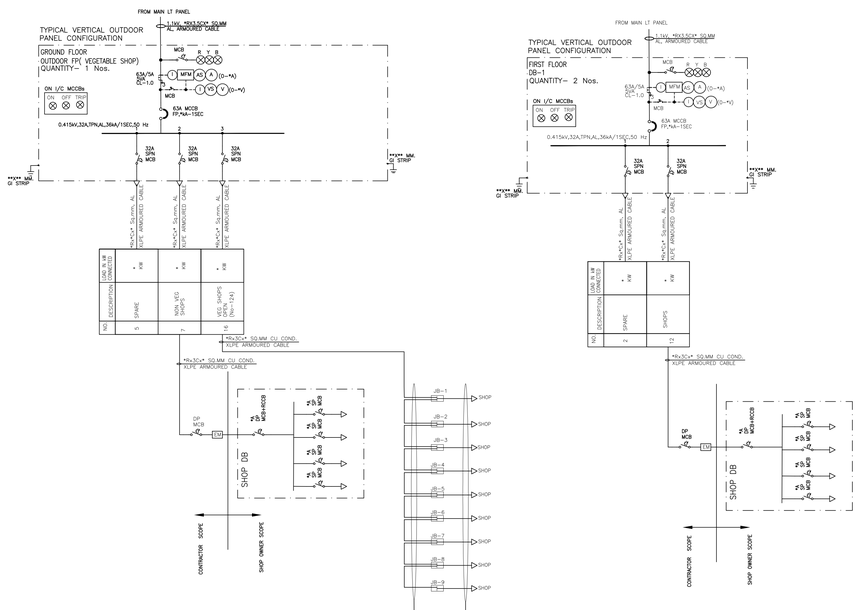
TITLE: SCHEMATIC SLD
PANPOSH MARKET
SHEET 1 OF 2

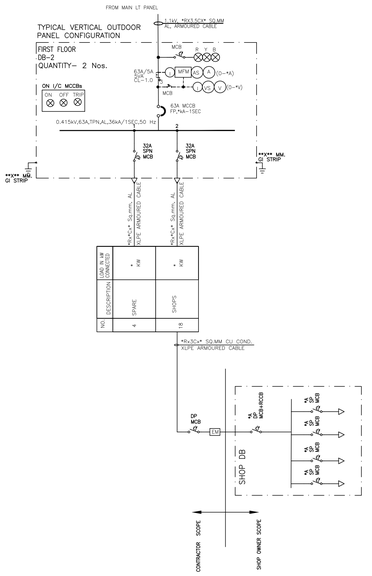
DWG NO: TCE.10839A-EL-4000-AU-40040

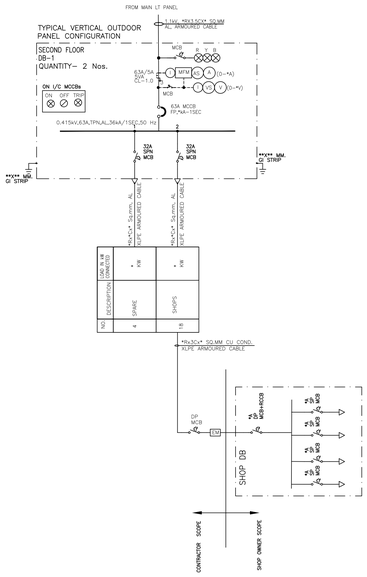












LEGEND:

	LOAD BREAK SWITCH	R	RELAYING
		I	INSTRUMENTATION
	AIR CIRCUIT BREAKER	25	SYNCHRONIZING RELAY
		59	OVER VOLTAGE RELAY
	VACCUM CIRCUIT BREAKER (SF6 ENCLOSED)	86	LOCK OUT RELAY
		27-3/4	UNDERVOLTAGE RELAY
	CHANGE OVER SWITCH	81	UNDERFREQUENCY RELAY
		SC	SPRING CHARGED
	MCB	TCH	TRIP CIRCUIT HEALTHY
	MCCB	50	INST. O/C PROTECTION
	MPCB	50N	INST. E/F PROTECTION
	CABLE GLAND	51	IDMT. O/C PROTECTION
	INDICATING LAMP	NC	NORMALLY CLOSED
	PUSH BUTTON	NO	NORMALLY OPEN
	CURRENT TRANSFORMER (CT) (FIGURE INDICATES NO. OF CT's)	LT METER	LT ENERGY METER
	POTENTIAL TRANSFORMER	49W	WINDING TEMP. HIGH INDICATOR WITH ALARM & TRIP CONTACTS
LM	LOAD MANAGER	49O	OIL TEMP. HIGH INDICATOR WITH ALARM & TRIP CONTACTS
	DISTRIBUTION TRANSFORMER	SP	SERVICE POSITION
MFM	MULTIFUNCTION METER	TP	TENT POSITION
	CHOKE	EP	EARTH POSITION
	DIESEL GENERATOR	ETPB	EMERGENCY TRIP PUSH BUTTON
		95	TRIP SUPERVISION RELAY
AS	AMMETER SELECTOR SWITCH		ELECTRICAL PANEL
A	ANALOG AMMETER		
VS	VOLTMETER SELECTOR SWITCH	MOG	MAGNETIC OIL GAUGE
V	ANALOG VOLTMETER		
	PUSH BUTTON STATION	A-M	AUTO MANUAL SELECTOR SWITCH
E.M.I.	ELECTRICAL- MECHANICAL INTERLOCK	PRV	PRESSURE RELIEF DEVICE
BCF ON	BATTERY CHARGER BOOST MODE ON	BUCH T	BUCHHOLZ RELAY
BCB ON	BATTERY CHARGER FLOAT MODE ON	51	OVER CURRENT RELAY
S1	DC CONTROL SUPPLY ON/OFF SWITCH	51N	NEUTRAL O/C PROTECTION
S4	SPEED RAISE	25	SYNCHRONISING RELAY
POT	POTENTIOMETER	NET LT METER	NET LT ENERGY METER
	CONTACTOR		
27	U/V RELAY	86	LOCK OUT RELAY
59	O/V RELAY	TP	TEST POSITION
32R	REVERSE POWER RELAY	NC	THREE POSITION SWITCH
95	MASTER TRIP RELAY	MTH	NORMALLY CLOSED
TCH	TRIP CUT HEALTHY	LHPB	
SP	SERVICE POSITION	46	NEGATIVE PHASE SEQUANCE PROTECTION
MTH			
ETPB	EMERGENCY TRIP PUSH BUTTON		
81	OVER AND UNDER FREQUENCY RELAY		

NOTES:

1. RATINGS, SIZES & QUANTITIES OF EQUIPMENTS MARKED AS '*' NEED TO BE CALCULATED BY THE CONTRACTOR BASED ON TENDER SPECIFICATIONS. CONTRACTOR SHALL SUBMIT THE TRANSFORMER SIZING & CORRESPONDING BREAKER SIZE CALCULATIONS DURING DETAILED ENGINEERING STAGE.
2. RATINGS, SIZES & QUANTITIES OF EQUIPMENTS (WHEREVER GIVEN) ARE MINIMUM REQUIREMENTS AND ARE FOR REFERENCE ONLY. BIDDER SHALL CALCULATE EQUIPMENT SIZES & RATINGS BASED ON DESIGN CRITERIA GIVEN IN TENDER.

HV SYSTEM:

i) VA BURDEN SHOWN ARE INDICATIVE. CONTRACTOR TO INDICATE BURDEN AS PER ACTUAL REQUIREMENT.
2. INTERTRIPPING & CLOSING INTERLOCK SHALL BE PROVIDED BETWEEN TRANSFORMER FEEDER (33kV) AND LT PANEL INCOMER(0.433kV) SIDE.
3. CT AND PT FOR HT METERING SHALL BE AS PER DISCOM REQUIREMENT.

LV SYSTEM:

a) 415V PCC/LT FEEDER PANEL INCOMER ACB FEEDERS SHALL BE FP, EDO TYPE, MICROPROCESSOR BASED O/C, S/C & INBUILT E/F AND UV RELEASES.
b) ALL OTHER ACBs EXCEPT FOR APFC INCOMER SHALL BE TPN, MDO TYPE, MICROPROCESSOR BASED O/C, S/C & INBUILT E/F RELEASES.

a) 415V PCC/LT FEEDER PANEL INCOMER & OUTGOING MCCB FEEDERS SHALL BE FP, FIXED TYPE, MICROPROCESSOR BASED O/C, S/C & INBUILT E/F RELEASES.

GENERAL NOTES:

1. THIS SLD SHOWS THE SCHEME FOR THE DISTRIBUTION OF THE POWER IN THE PANPOSH MARKET.
2. THE BIDDER HAS TO DO DETAIL ENGINEERING AND WORK OUT THE RATING OF THE EACH COMPONENT.
3. ALL THE EQUIPMENTS SHOULD BE AS PER RELEVANT IS/IEC STANDARD.
4. ALL POWER WIRING SHALL BE WITH 1.1kV, XLPE INSULATED, 4C X 35 SQ.MM. CU POWER CABLE.
5. ALL POWER WIRING SHALL BE WITH 1.1kV, 2C X 2.5 SQ.MM. CU WIRE, PVC INSULATED. 1.5 SQ.MM. STRANDED COPPER WIRE FOR CONTROL WIRING & 2.5 SQ.MM. FOR CT SECONDARY WIRING.
6. ALL OUTGOING CTs SHALL BE 5A, 5P, 5VA SECONDARY IN PCC PANEL.
7. WIDTH OF FEEDER COLLAR SHALL BE 300MM.
8. WIDTH OF FEEDER COLLAR SHALL BE MIN. 500MM AND CABLE ALLEY SHALL BE 300MM MIN.
9. ALL AIR CIRCUIT BREAKERS SHALL BE WITH ics=icu=100% & ALL MCCBs SHALL BE WITH ics=icu=100%.
10. IN ALL PANELS INCLUDING PCC/LT FEEDER PANEL, CURRENT RATING ABOVE 630A SHALL HAVE ACBs.
11. ALL MOTORS, THEY ALSO HAVE TO BE ON 1.1KV AC SUPPLY. ACBs ON PCC WILL BE ON 110V AC SUPPLY. SPRING CHARGING MOTORS OF ACBs WILL BE ON 110V AC SUPPLY.
12. VENDORS TO ENSURE TYPE TO CO-ORDINATION FOR ALL MOTOR FEEDERS. MOTOR STARTERS SHALL BE COMPLETE WITH SPEED SENSOR, PHASEVOLTAGE PROTECTOR, AMMETER, PB, MOTOR FEEDERS SHALL BE PROVIDED WITH THE FOLLOWING SPARE CONTACTS: 1 NO, 1 NC, 1 NO+1 NC, 1 NO+1 NC, 1 NO+1 NC.
13. THE DOORS AND TOP PANELS OF ALL MCCB SHALL BE FITTED WITH INDICATING, OPERATING HANDLE FOR OPERATING MCCBs WITH THE DOOR CLOSED INTERLOCK SHALL BE PROVIDED. ALL MCCB FEEDERS ON ALL PANELS SHALL BE PROVIDED WITH ON/OFF/TRIP INDICATING LAMPS THROUGH AUXILIARY CONTACTS.
14. IN ALL PANELS, PROVISION FOR CONNECTING 1.1KV, 3P+N+E, 50Hz, 415V, AC SUPPLY FROM INBUILT DC POWER PACK - FOR ALL LT PANEL CONTROL OF 1.1KV AC SUPPLY FROM 415/110V DC SHALL BE PROVIDED.
15. MCCB TERMINALS SHALL BE SHROUDED AND SHALL BE DESIGNED TO RECEIVE CABLE LUGS FOR RELEVANT CABLE SIZES.
16. ALL INDICATING LAMPS SHALL BE MULTICHIP LED CLUSTER TYPE.
17. ALL MCB/MCCB/ACB FEEDERS SHALL BE SIMILAR TO SCHNEIDER MAKE 6400 NG.
18. ALL CONTACTORS / TIMERS SHALL BE ON DIN RAIL MOUNTING.
19. FAULT CLEARING TIME TO BE CONSIDERED WHILE SIZING OF CABLES SHALL BE AS FOLLOWS:
   a) PCC I/C-1 SEC.
   b) TRANSFORMER PRIMARY-0.5 SEC.
20. ALL MCCBs SHALL BE FIXED TYPE ON BOTH SIDES.
21. ONE WAY OF NET METERING IS BEING PROVIDED IN THE SLD FOR INTEGRATION OF THE SOLAR WITH THE DISTRIBUTION SYSTEM.THIS METHODOLOGY NEED TO BE VERIFIED WITH THE STATE ELECTRICITY BOARD AND THE SOLAR PROVIDER.
22. ONLY PROVISION OF NET METERING SHALL BE DONE BY CONTRACTOR. SUPPLY OF THE SAME IS UNDER RSCL.
23. SOLAR POWER SUPPLY WILL NOT BE ON WHEN DG IS ON.
24. MINIMUM SOR GRADE AND TO BE PROVIDED WITH ATLEAST ONE FOR EACH RATING FEEDER.
25. TYPE 1 SPD AT PCC PANEL AND TYPE 2 SPD AT SUB PANEL HAS TO BE PROVIDED.

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	REVISIONS														
	SIGN.														
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	REVISIONS														
PO	SIGN.														18-02-2019
	INITIALS	TJ	KM	DT										VVB	
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM		APPD		DATE
					CLEARED										

FOR DPR PURPOSE ONLY

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ROURKELA (PART CITY LTD)

ROURKELA SMART CITY LTD

pgmc FOR AREA BASED DEVELOPMENT

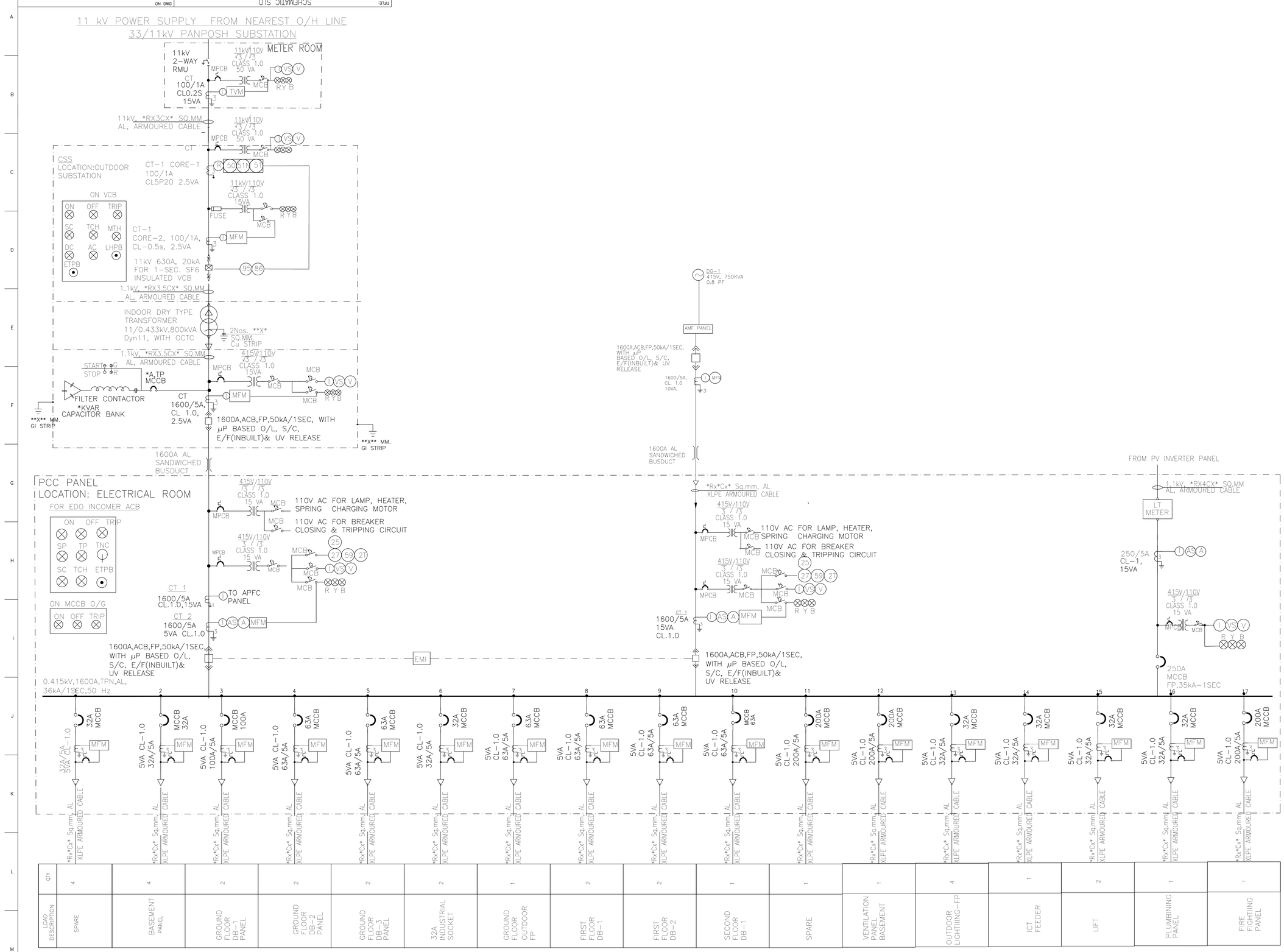
SCHEMATIC SLD
PANPOSH MARKET
SHEET 1 OF 2

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS
DC & DISC : DEL-EL
DWG. NO.: TCE.10839A-EL-4000-AU-40040
ISSUE: P0

FILE NAME : TCE.10839A-EL-4000-AU-400041-Rev-P0

TCE FORM NO. 090 R0



QTY	LOAD DESCRIPTION	*Rx*Cx* Sq.mm, AL XLPE ARMOURED CABLE
4	SPARE	
4	BASEMENT PANEL	
2	GROUND FLOOR DB-1 PANEL	
2	GROUND FLOOR DB-2 PANEL	
2	GROUND FLOOR DB-3 PANEL	
2	32A INDUSTRIAL SOCKET	
1	GROUND FLOOR OUTDOOR FP	
2	FIRST FLOOR DB-1	
2	FIRST FLOOR DB-2	
1	SECOND FLOOR DB-1	
1	SPARE	
1	VENTILATION PANEL BASEMENT	
4	OUTDOOR LIGHTIING-FP	
1	ICT FEEDER	
2	LIFT	
1	PLUMBINING PANEL	
1	FIRE FIGHTIING PANEL	

LEGEND:

	LOAD BREAK SWITCH	R	RELAYING
		I	INSTRUMENTATION
	AIR CIRCUIT BREAKER (DRAW OUT)		LOAD BREAK SWITCH
		95	TRIP SUPERVISION RELAY
	VACCUM CIRCUIT BREAKER (SF6 ENCLOSED)	86	LOCK OUT RELAY
		27-3/4	UNDERVOLTAGE RELAY
	CHANGE OVER SWITCH	81	UNDERFREQUENCY RELAY
		SC	SPRING CHARGED
	MCB	TCH	TRIP CIRCUIT HEALTHY
	MCCB	50	INST. O/C PROTECTION
	MPCB	50N	INST. E/F PROTECTION
	CABLE GLAND	51	IDMT. O/C PROTECTION
	INDICATING LAMP	NC	NORMALLY CLOSED
	PUSH BUTTON	NO	NORMALLY OPEN
	CURRENT TRANSFORMER (CT) (FIGURE INDICATES NO. OF CT's)	49W	WINDING TEMP. HIGH INDICATOR WITH ALARM & TRIP CONTACTS
	POTENTIAL TRANSFORMER	VS	VOLTMETER SELECTOR SWITCH
AS	AMMETER SELECTOR SWITCH	V	ANALOG VOLTMETER
A	ANALOG AMMETER		CONTACTOR
	DISTRIBUTION TRANSFORMER		PUSH BUTTON STATION
MFM	MULTIFUNCTION METER		ELECTRICAL PANEL
	CHOKE	A-M	AUTO MANUAL SELECTOR SWITCH
	DIESEL GENERATOR		
27	U/V RELAY	51	OVER CURRENT RELAY
59	O/V RELAY	51N	NEUTRAL O/C PROTECTION
81	OVER AND UNDER FREQUENCY RELAY	46	NEGATIVE PHASE SEQUANCE PROTECTION
32R	REVERSE POWER RELAY	25	SYNCHRONISING RELAY
95	MASTER TRIP RELAY	86	LOOK OUT RELAY
ETPB	EMERGENCY TRIP PUSH BUTTON	TP	TEST POSITION
TCH	TRIP CUT HEALTHY	NC	THREE POSITION SWITCH
SP	SERVICE POSITION	MTH	NORMALLY CLOSED
MTH		LHPB	

NOTES:

1. RATINGS, SIZES & QUANTITIES OF EQUIPMENTS MARKED AS '*' NEED TO BE CALCULATED BY THE CONTRACTOR BASED ON TENDER SPECIFICATIONS. CONTRACTOR SHALL SUBMIT THE TRANSFORMER SIZING & CORRESPONDING BREAKER SIZE CALCULATIONS DURING DETAILED ENGINEERING STAGE.
2. RATINGS, SIZES & QUANTITIES OF EQUIPMENTS (WHEREVER GIVEN) ARE MINIMUM REQUIREMENTS AND ARE FOR REFERENCE ONLY. BIDDER SHALL CALCULATE EQUIPMENT SIZES & RATINGS BASED ON DESIGN CRITERIA GIVEN IN TENDER.

HV SYSTEM:

1. VA BURDENS SHOWN ARE INDICATIVE. CONTRACTOR TO INDICATE BURDEN AS PER ACTUAL REQUIREMENT.
2. INTERPRPING & CLOSING INTERLOCK SHALL BE PROVIDED BETWEEN TRANSFORMER FEEDER (33KV) AND LT PANEL INCOMER(0.433KV) SIDE.
3. CT AND PT FOR HT METERING SHALL BE AS PER DISCOM REQUIREMENT.

LV SYSTEM:

a) 415V PCC/LT FEEDER PANEL INCOMER ACB FEEDERS SHALL BE FP, EDO TYPE, MICROPROCESSOR BASED O/C, S/C & INBUILT E/F AND UV RELEASES.
b) ALL OTHER ACBs EXCEPT FOR APFC INCOMER SHALL BE TPN, MDO TYPE, MICROPROCESSOR BASED O/C, S/C & INBUILT E/F RELEASES.
2. MCCB
a) 415V PCC/LT FEEDER PANEL INCOMER & OUTGOING MCCB FEEDERS SHALL BE FP, FIXED TYPE, MICROPROCESSOR BASED O/C, S/C & INBUILT E/F RELEASES.

GENERAL NOTES:

1. THE SLD SHOWS THE SCHEME FOR THE DISTRIBUTION OF THE POWER FOR THE CCC AT ROURKELA ONE.
2. THE BIDDER HAS TO DO DETAIL ENGINEERING FOR THE SUPPLY AND CABLING OF THE EACH COMPONENT.
3. ALL CABLE TERMINATION ARE TO BE DONE BY CABLE GLAND.
4. POWER CABLE TERMINATION CHAMBER SHOULD BE SEPARATE FROM POWER CABLE.
5. ALL PANEL WIRING SHALL BE WITH 1.1KV 1C COPPER, FRLS PVC INSULATED, 1.5 SQ.MM. STRANDED COPPER WIRE FOR CONTROL WIRING & 2.5 SQ.MM. FOR CT SECONDARY WIRING.
6. ALL CONTACTORS SHALL BE 3P, AC3 DUTY.
7. ALL CONTACTORS SHALL BE 3P, AC3 DUTY.
8. WIDTH OF FEEDER COLUMN SHALL BE MIN 500MM AND CABLE ALLEY SHALL BE 500MM MIN.
9. ALL ACB (MCCB) BREAKERS SHALL BE WITH Icw=Icu=100% (Icu=Ics=100%).
10. ALL ACB (MCCB) BREAKERS SHALL BE WITH Icw=Icu=100% (Icu=Ics=100%).
11. ALL INDICATORS, TRIP/CLOSING COILS OF ACBs ON PCC WILL BE ON 110V AC SUPPLY. SPRING CHARGING MOTORS OF ACBs WILL BE ON 110V.
12. ALL MCCB'S SHALL BE 3P, FOR TERMINATION FOR ALL MOTOR FEEDERS, MOTOR STARTERS, SHALL BE SUPPLIED WITH 3 NOS. OF O/L RELAYS. OVERLOAD ALARM IN MOTOR FEEDERS SHALL BE PROVIDED WITH SUPPRESSED SCALE (0TO 6 TIMES FULL LOAD CURRENT FOR INDICATING STARTING CURRENT.
13. THE ON AND OFF POSITION OF MCCB SHALL BE CLEARLY INDICATED. OPERATING HANDLE FOR OPERATING MCCBs WITH THE DOOR CLOSED INTERLOCK SHALL BE PROVIDED. ALL MCCB FEEDERS ON ALL PANELS SHALL BE PROVIDED WITH DOOR CLOSED INTERLOCKING OPERATING HANDLE THROUGH COUPLER.
14. WHEREVER HT PANEL IS PROVIDED, CONTROL SUPPLY SHALL BE DERIVED FROM INBUILT DC POWER PACK . FOR ALL LT PANELS, CONTROL SUPPLY OF 110V AC DERIVED FROM 415/110V PTI, SHALL BE PROVIDED.
15. MODE TERMINALS SHALL BE SHROUDED AND SHALL BE DESIGNED TO RECEIVE CABLE LUGS FOR RELEVANT CABLE.
16. ALL INDICATING LAMPS SHALL BE MULTICHIP LED CLUSTER TYPE.
17. 1/C MULTIFUNCTION METER FOR PCC, DG, APFC PANEL WILL BE SIMILAR TO SCHNIDDER MAKE 6400 NG.
18. ALL CONTACTORS & TIMERS SHALL BE DIN RAIL MOUNTED.
19. FAULT LEVEL TO BE CONSIDERED WHILE SIZING OF CABLES SHALL BE AS FOLLOWS:
   a) PCC 12KA SEC.
   b) TRANSFORMER PRIMARY: 0.16 SEC.
20. ALL PANELS SHALL BE EXTENDIBLE ON BOTH SIDES.
21. ONE WAY OF NET METERING IS BEING PROVIDED IN THE SLD FOR INTEGRATION OF THE SOLAR WITH THE GRID.HOWEVER,THIS METHODLOGY NEED TO BE VERIFIED WITH THE STATE ELECTRICITY BOARD AND THE SOLAR VENDOR.
22. ONLY PROVISION OF NET METERING SHALL BE DONE BY CONTRACTOR. SUPPLY OF THE SAME IS UNDER RSCL.
23. MINIMUM POWER FACTOR AT THE INCOMER SHALL BE 0.95 OR BETTER.
24. TYPE 1 SPD AT PCC PANEL AND TYPE 2 SPD AT SUB PANEL HAS TO BE PROVIDED.
25. TYPE 3 SPD AT PCC PANEL AND TYPE 2 SPD AT SUB PANEL HAS TO BE PROVIDED.

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ISSUE		DRN	DSN	CHD	CV	EL	IC	ME	CLEARED						PE/PM	APPD	DATE

FOR DPR PURPOSE ONLY

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ROURKELA SMART CITY LTD

pgmc FOR AREA BASED DEVELOPMENT

SCHEMATIC SLD
PANPOSH MARKET
SHEET 2 OF 2

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE	DWG. NO.	ISSUE
: NTS	TCE.10839A-EL-4000-AU-40040	P0

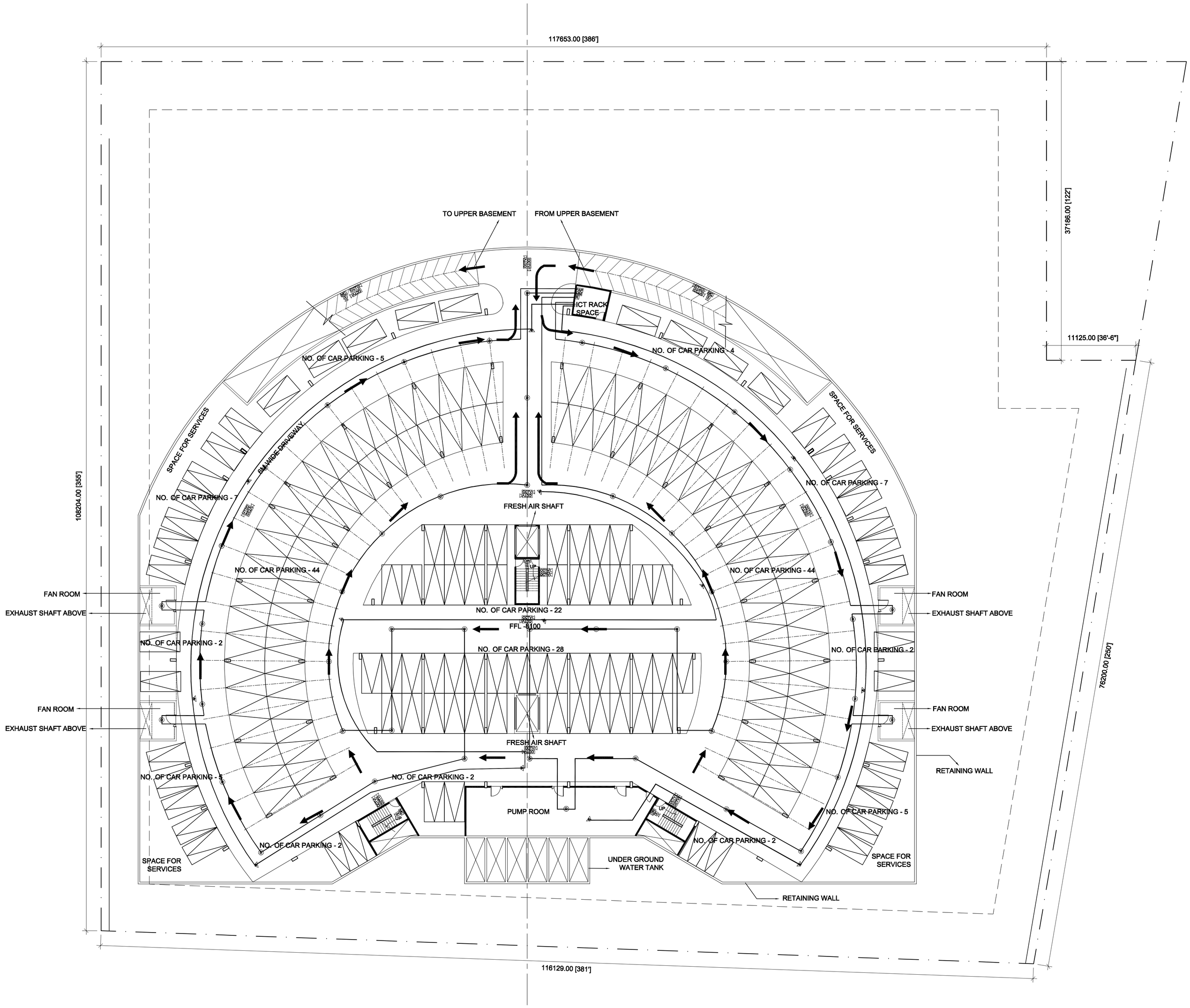
FILE NAME : TCE.10839A-EL-4000-AU-400041-Rev-P0 DC & DISC : DEL-EL

TCE FORM NO. 090 R0

TITLE: SCHEMATIC SLD PANPOSH MARKET SHEET 2 OF 2

DWG NO TCE.10839A-EL-4000-AU-40040

FILE NAME: F-090-Rev-R0.dwg



LOWER BASEMENT FLOOR PLAN

LEGENDS:-

SYMBOL	DESCRIPTION	QTY.(NOS.)
FAP	FIRE ALARM PANEL	01
D	SMOKE DETECTOR	48
MC	MANUAL CALL POINT	05
H	HOOTER CONTROL MODULE	05
C	CONTROL MODULE	01
B R	BEAM DETECTOR	--
MM	MONITOR MODULE	01
R	REPEATER MODULE	02
CCTV	CCTV CAMERA	22
S	PA SPEAKER	13
———	2 CORE FRLS CABLE FOR FAS	538 M
———	2 CORE CABLE FOR SPEAKER	378 M

ISSUE	DRN	DSN	CHD	CV	EL	IC	ME	PE/PM	APPD	DATE
	MK	MC	MC	CLEARED				BST	–	28-01-2019

SIGN. / INITIALS / REVISIONS

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FILE NAME : TCE.10839A-IC-5005-GA-50050

ROURKELA SMART CITY DEVELOPMENT CORPORATION LIMITED

PDMC FOR AREA BASED DEVELOPMENT PROJECT FOR ROURKELA SMART CITY

PANPOSE MARKET _ ICT COMPONENTS FOR BASEMENT FLOOR PLAN

TATA CONSULTING ENGINEERS LIMITED

MUMBAI

SCALE : 1:250 | DWG NO. TCE.10839A-IC-5005-GA-50050 | ISSUE P0

DC & DISC : DEL_CV

SIZE:A1

TCE FORM NO. 090 R0

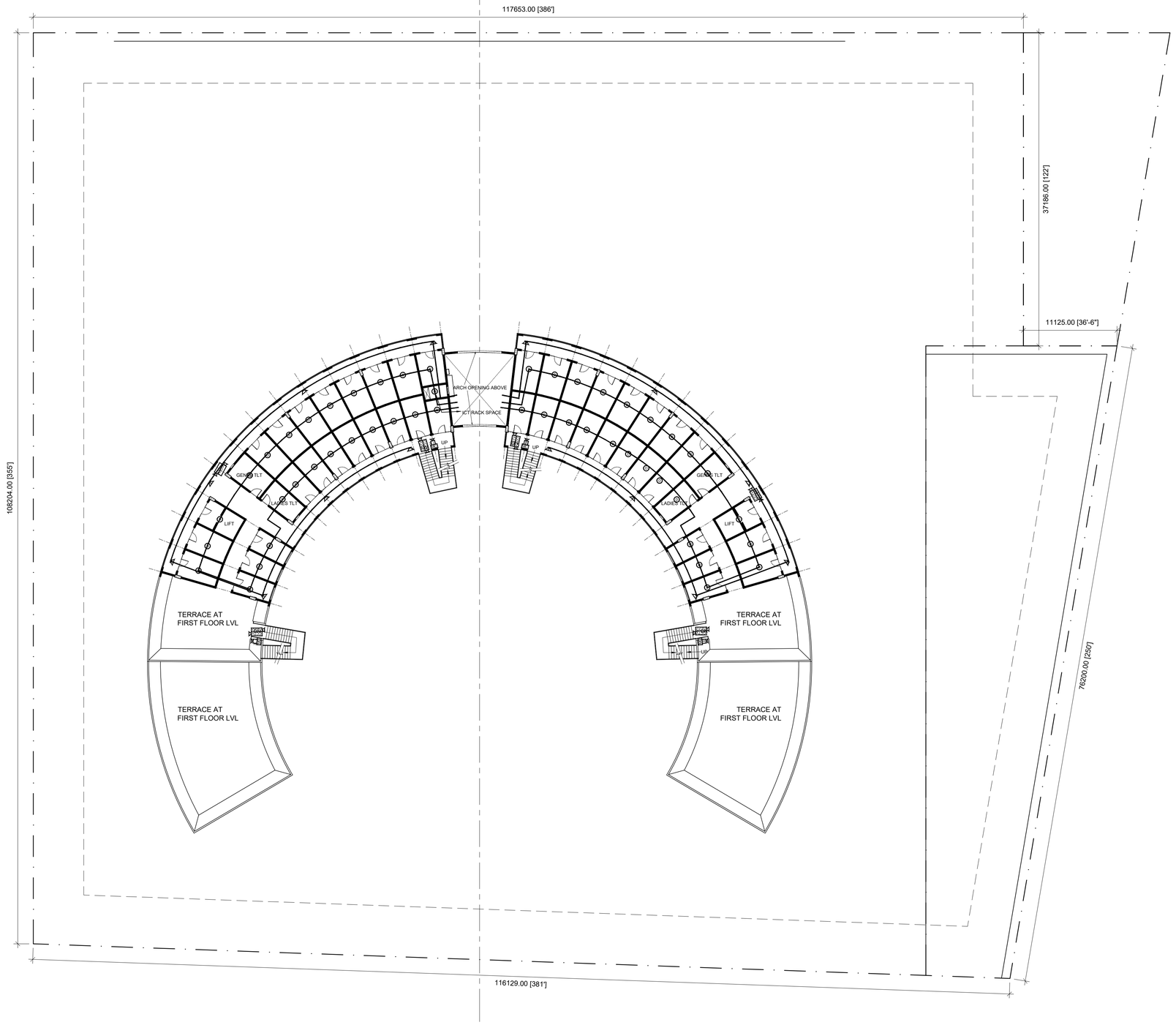
FILE NAME: F-090-Rev-R0.dwg

TITLE: PANPOSE MARKET _ ICT COMPONENTS FOR BASEMENT FLOOR PLAN

DWG NO: TCE.10839A-IC-5005-GA-50050

TITLE: PANPOSE MARKET _ ICT COMPONENTS FOR LOWER BASEMENT FLOOR PLAN

DWG NO: TCE.10839A-IC-5005-GA-50054



SECOND FLOOR PLAN

LEGENDS:-

SYMBOL	DESCRIPTION	QTY.(NOS.)
FAP	FIRE ALARM PANEL	--
D	SMOKE DETECTOR	49
MC	MANUAL CALL POINT	04
	HOOTER CONTROL MODULE	04
	CONTROL MODULE	01
B-R	BEAM DETECTOR	--
MM	MONITOR MODULE	--
R	REPEATER MODULE	--
CCTV	CCTV CAMERA	12
	PA SPEAKER	14
	2 CORE FRLS CABLE FOR FAS	178 M
	2 CORE CABLE FOR SPEAKER	178 M

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ISSUE		DRN	DSN	CHD	CV	EL	IC	ME	PE/PM	APPD	DATE
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FILE NAME : TCE.10839A-IC-5005-GA-50054

ROURKELA SMART CITY DEVELOPMENT CORPORATION LIMITED

PDMC FOR AREA BASED DEVELOPMENT PROJECT FOR ROURKELA SMART CITY

PANPOSE MARKET _ ICT COMPONENTS
FOR SECOND FLOOR PLAN

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : 1:250
DC & DISC : DEL_CV
DWG NO. TCE.10839A-IC-5005-GA-50054
ISSUE P0

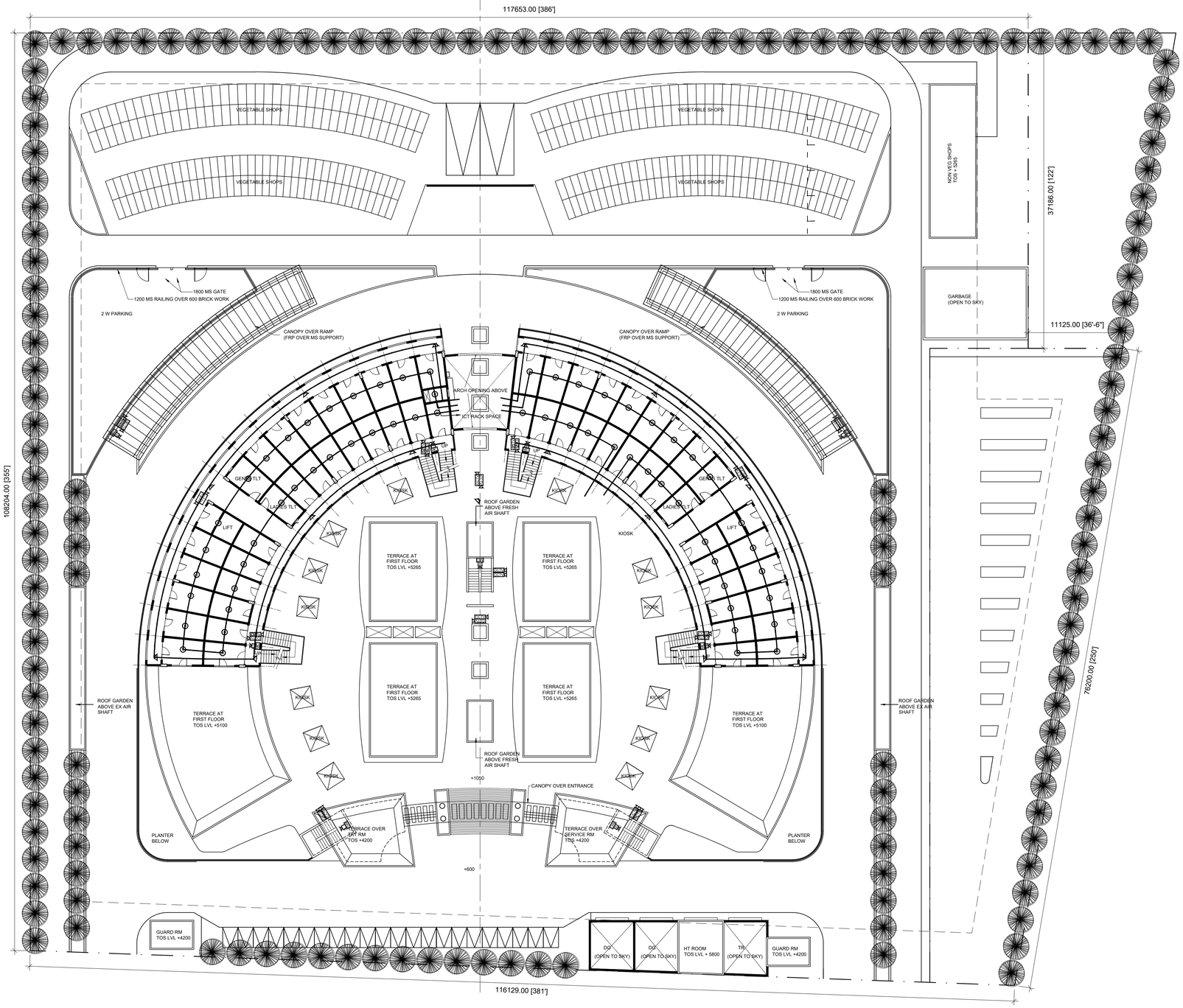
FILE NAME: F-090-Rev-R0.dwg

TCE FORM NO. 090 R0

SIZE: A1

TITLE: PANPOSE MARKET _ICT COMPONENTS FOR LOWER BASEMENT FLOOR PLAN

DWG NO: TCE.10839A-IC-5005-GA-50053



FIRST FLOOR PLAN

LEGENDS:-

SYMBOL	DESCRIPTION	QTY.(NOS.)
FAP	FIRE ALARM PANEL	--
D	SMOKE DETECTOR	62
MC	MANUAL CALL POINT	09
	HOOTER CONTROL MODULE	09
	CONTROL MODULE	--
B-R	BEAM DETECTOR	--
MM	MONITOR MODULE	--
R	REPEATER MODULE	--
CCTV	CCTV CAMERA	26
	PA SPEAKER	15
	2 CORE FRLS CABLE FOR FAS	200 M
	2 CORE CABLE FOR SPEAKER	225 M

ISSUE	DRN	DSN	CHD	CLEARED				PE/PM	APPD	DATE
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INITIALS	MK	MC	MC		CV	EL	IC	ME	BST	–	28-01-2019

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FILE NAME : TCE.10839A-IC-5005-GA-50053

ROURKELA SMART CITY DEVELOPMENT CORPORATION LIMITED

PDMC FOR AREA BASED DEVELOPMENT PROJECT FOR ROURKELA SMART CITY

PANPOSE MARKET _ ICT COMPONENTS FOR FIRST FLOOR PLAN

TATA CONSULTING ENGINEERS LIMITED

MUMBAI

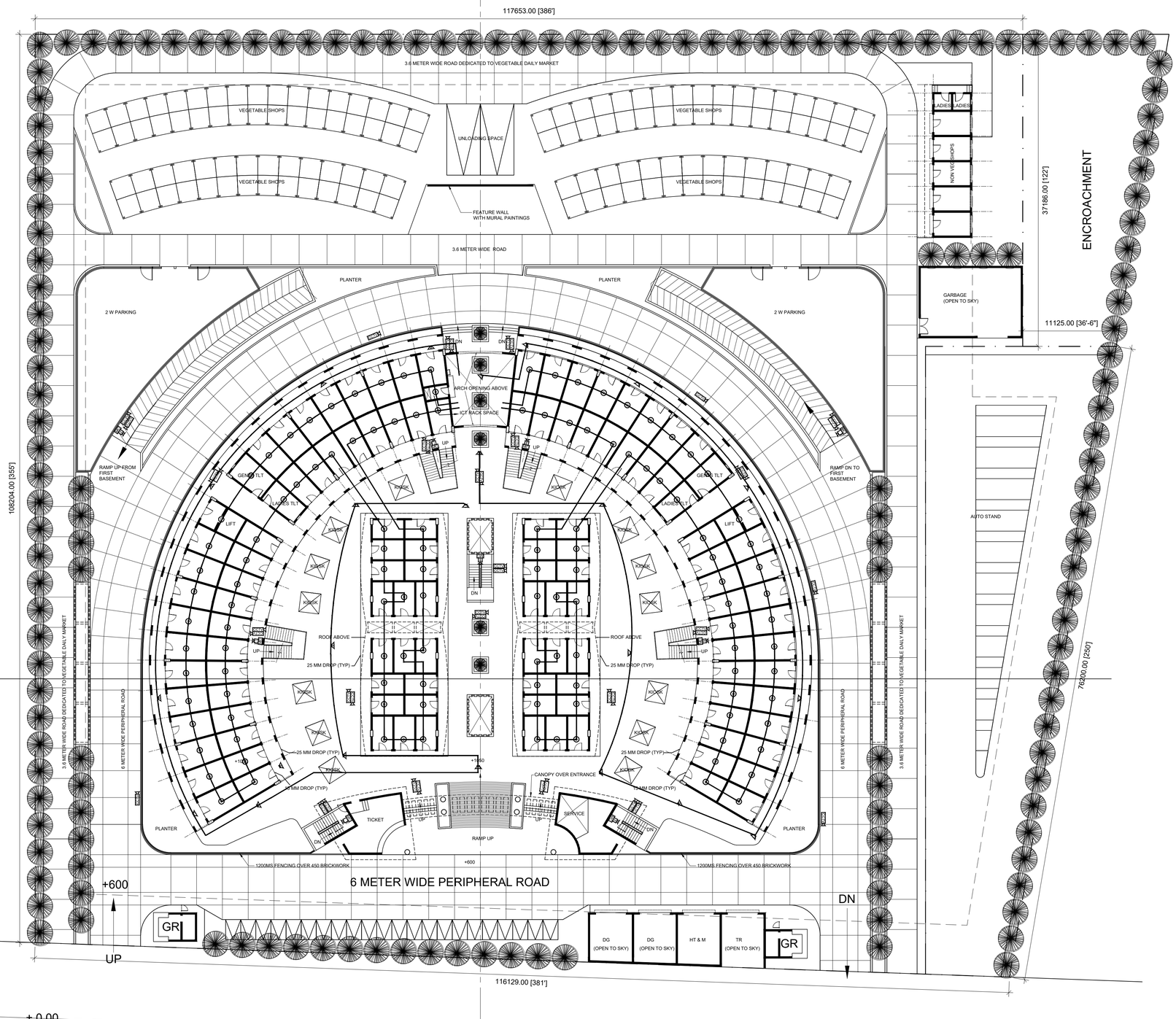
SCALE	1:250	DWG NO.	TCE.10839A-IC-5005-GA-50053	ISSUE
DC & DISC	DEL_CV			P0

TCE FORM NO. 090 R0

FILE NAME: F-090-Rev-R0.dwg

TITLE: PANPOSE MARKET _ ICT COMPONENTS FOR LOWER BASEMENT FLOOR PLAN

DWG NO: TCE.10839A-IC-5005-GA-50052



GROUND FLOOR PLAN

LEGENDS:-

SYMBOL	DESCRIPTION	QTY.(NOS.)
FAP	FIRE ALARM PANEL	--
D	SMOKE DETECTOR	123
MC	MANUAL CALL POINT	09
	HOOTER CONTROL MODULE	09
	CONTROL MODULE	--
B-R	BEAM DETECTOR	--
MM	MONITOR MODULE	--
R	REPEATER MODULE	--
CCTV	CCTV CAMERA	43
	PA SPEAKER	22
	2 CORE FRLS CABLE FOR FAS	450 M
	2 CORE CABLE FOR SPEAKER	345 M

ISSUE	DRN	DSN	CHD	CV	EL	IC	ME	PE/PM	APPD	DATE
SIGN. / INITIALS	MK	MC	MC					BST	–	28-01-2019
REVISIONS				CLEARED						

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FILE NAME : TCE.10839A-IC-5005-GA-50026

ROURKELA SMART CITY DEVELOPMENT CORPORATION LIMITED

PDMC FOR AREA BASED DEVELOPMENT PROJECT FOR ROURKELA SMART CITY

PANPOSE MARKET _ ICT COMPONENTS FOR GROUND FLOOR PLAN

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

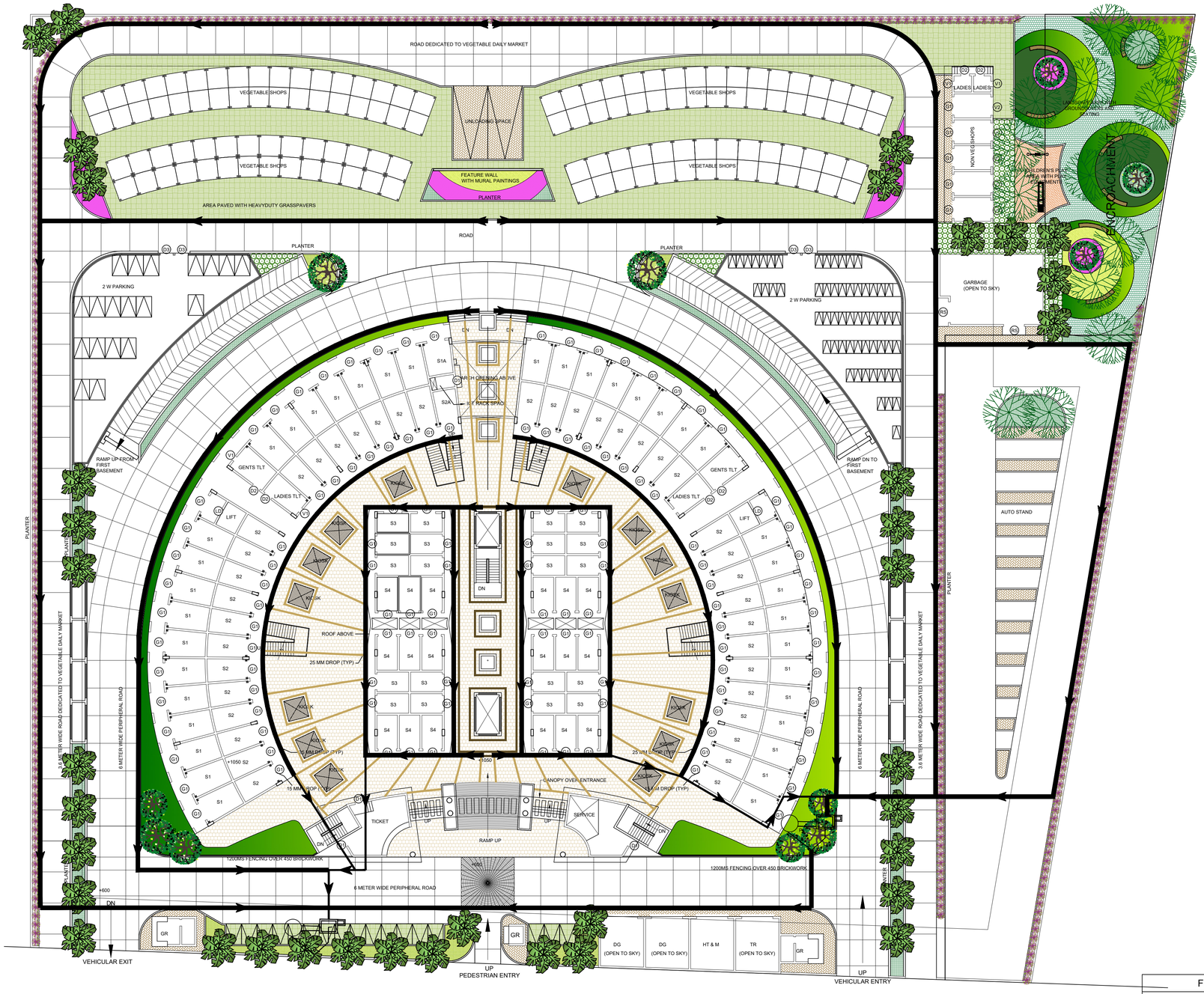
SCALE	DWG NO.	ISSUE
1:250	TCE.10839A-IC-5005-GA-50052	P0
DC & DISC: DEL_CV		

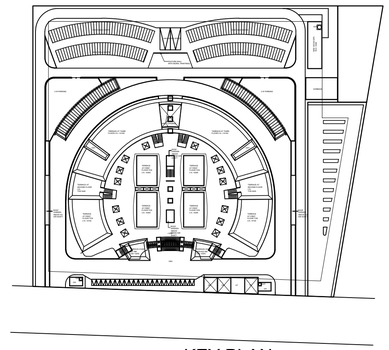
TCE FORM NO. 050 R0

FILE NAME: F-090-Rev-R0.dwg

TITLE: ROURKELA SMART CITY
PANPOSH MARKET REDEVOPMENT
INTERNAL DRAINAGE AND RWHS

DWG NO TCE.10839A-CV-3018-IP-3004





KEY PLAN
(SCALE : NTS)

NOTES

ISSUE		DRN	DSN	CHD	CV	EL	IC	ME	PE/PM	APPD	DATE
					CLEARED						
	SIGN.										
	INITIALS										
	REVISIONS										
P1	SIGN.										25-01-2019
	INITIALS	VVD	MSN	DM							
	REVISIONS	LANDSCAPE LAYOUT UPDATED AS PER REVISED MASTER PLAN									
P0	SIGN.										18-10-2018
	INITIALS	VVD	MSN	SS							

FOR APPROVAL

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FILE NAME : TCE.10839A-CV-3018-IP-3004

ROURKELA SMART CITY LTD.

ROURKELA SMART CITY LTD

PDMC FOR AREA BASED DEVELOPMENT

PANPOSH MARKET REDEVELOPMENT
INTERNAL DRAINAGE AND RWHS

TATA CONSULTING ENGINEERS LIMITED

SCALE : NTS
DC & DISC : PUNE & INFRA

DWG NO. TCE.10839A-CV-3018-IP-3004

ISSUE P0

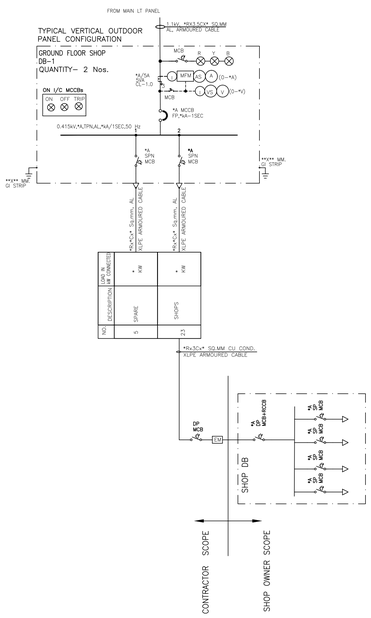
SIZE-A1

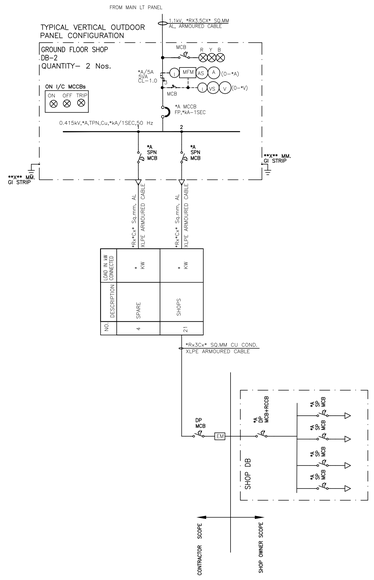
FILE NAME: F-091-Rev-R0.dwg

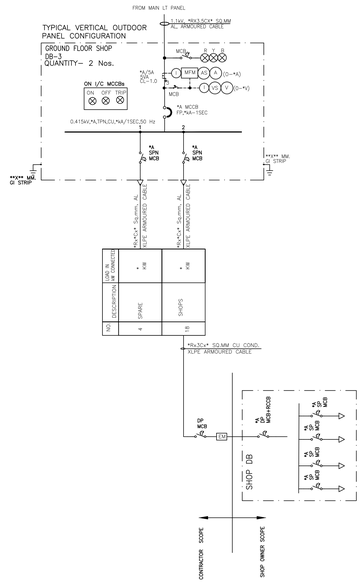
TCE FORM NO. 091 R0

TITLE: SCHEMATIC SLD
PANPOSH MARKET
SHEET 1 OF 2

DWG NO TCE.10839A-EL-4000-AU-400040







LEGEND:

	LOAD BREAK SWITCH	R	RELAYING
		I	INSTRUMENTATION
	AIR CIRCUIT BREAKER	25	SYNCHRONIZING RELAY
		59	OVER VOLTAGE RELAY
	VACCUM CIRCUIT BREAKER (SF6 ENCLOSED)	86	LOCK OUT RELAY
		27-3/4	UNDERVOLTAGE RELAY
	CHANGE OVER SWITCH	81	UNDERFREQUENCY RELAY
		SC	SPRING CHARGED
	MCB	TCH	TRIP CIRCUIT HEALTHY
	MCCB	50	INST. O/C PROTECTION
	MPCB	50N	INST. E/F PROTECTION
	CABLE GLAND	51	IDMT. O/C PROTECTION
	INDICATING LAMP	NC	NORMALLY CLOSED
	PUSH BUTTON	NO	NORMALLY OPEN
	CURRENT TRANSFORMER (CT) (FIGURE INDICATES NO. OF CT's)	LT METER	LT ENERGY METER
	POTENTIAL TRANSFORMER	49W	WINDING TEMP. HIGH INDICATOR WITH ALARM & TRIP CONTACTS
LM	LOAD MANAGER	49O	OIL TEMP. HIGH INDICATOR WITH ALARM & TRIP CONTACTS
	DISTRIBUTION TRANSFORMER	SP	SERVICE POSITION
MFM	MULTIFUNCTION METER	TP	TENT POSITION
	CHOKE	EP	EARTH POSITION
	DIESEL GENERATOR	ETPB	EMERGENCY TRIP PUSH BUTTON
		95	TRIP SUPERVISION RELAY
AS	AMMETER SELECTOR SWITCH		ELECTRICAL PANEL
A	ANALOG AMMETER		
VS	VOLTMETER SELECTOR SWITCH	MOG	MAGNETIC OIL GAUGE
V	ANALOG VOLTMETER		
	PUSH BUTTON STATION	A-M	AUTO MANUAL SELECTOR SWITCH
E.M.I.	ELECTRICAL-- MECHANICAL INTERLOCK	PRV	PRESSURE RELIEF DEVICE
BCF ON	BATTERY CHARGER BOOST MODE ON	BUCH T	BUCHHOLZ RELAY
BCB ON	BATTERY CHARGER FLOAT MODE ON	51	OVER CURRENT RELAY
S1	DC CONTROL SUPPLY ON/OFF SWITCH	51N	NEUTRAL O/C PROTECTION
S4	SPEED RAISE	25	SYNCHRONISING RELAY
POT	POTENTIOMETER	NET LT METER	NET LT ENERGY METER
	CONTACTOR		
27	U/V RELAY	86	LOCK OUT RELAY
59	O/V RELAY	TP	TEST POSITION
32R	REVERSE POWER RELAY	NC	THREE POSITION SWITCH
95	MASTER TRIP RELAY	MTH	NORMALLY CLOSED
TCH	TRIP CUT HEALTHY	LHPB	
SP	SERVICE POSITION	46	NEGATIVE PHASE SEQUANCE PROTECTION
MTH			
ETPB	EMERGENCY TRIP PUSH BUTTON		
81	OVER AND UNDER FREQUENCY RELAY		

NOTES:

1. RATINGS, SIZES & QUANTITIES OF EQUIPMENTS MARKED AS '*' NEED TO BE CALCULATED BY THE CONTRACTOR BASED ON TENDER SPECIFICATIONS. CONTRACTOR SHALL SUBMIT THE TRANSFORMER SIZING & CORRESPONDING BREAKER SIZE CALCULATIONS DURING DETAILED ENGINEERING STAGE.
2. RATINGS, SIZES & QUANTITIES OF EQUIPMENTS (WHEREVER GIVEN) ARE MINIMUM REQUIREMENTS AND ARE FOR REFERENCE ONLY. BIDDER SHALL CALCULATE EQUIPMENT SIZES & RATINGS BASED ON DESIGN CRITERIA GIVEN IN TENDER.

HV SYSTEM:

i) VA BURDEN SHOWN ARE INDICATIVE. CONTRACTOR TO INDICATE BURDEN AS PER ACTUAL REQUIREMENT.
2. INTERTRIPPING & CLOSING INTERLOCK SHALL BE PROVIDED BETWEEN TRANSFORMER FEEDER (33kV) AND LT PANEL INCOMER(0.433kV) SIDE.
3. CT AND PT FOR HT METERING SHALL BE AS PER DISCOM REQUIREMENT.

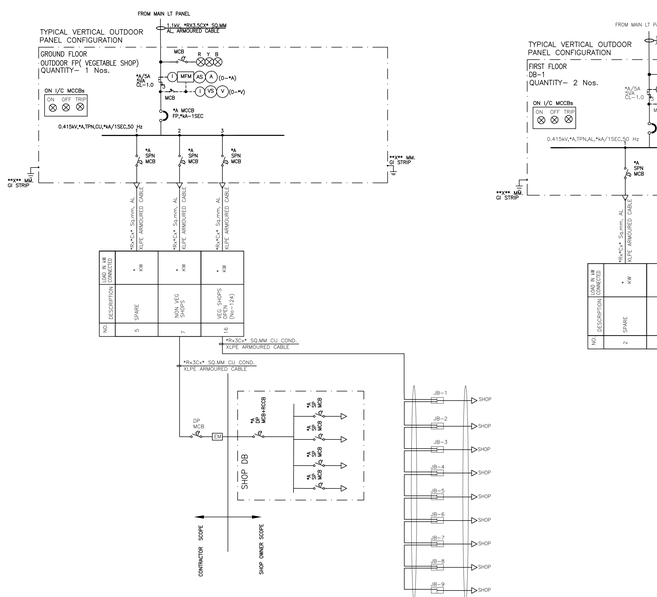
LV SYSTEM:

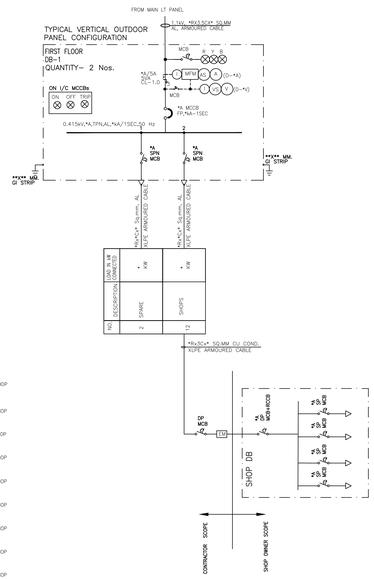
a) 415V PCC/LT FEEDER PANEL INCOMER ACB FEEDERS SHALL BE FP, EDO TYPE, MICROPROCESSOR BASED O/C, S/C & INBUILT E/F AND UV RELEASES.
b) ALL OTHER ACBs EXCEPT FOR APFC INCOMER SHALL BE TPN, MDO TYPE, MICROPROCESSOR BASED O/C, S/C & INBUILT E/F RELEASES.

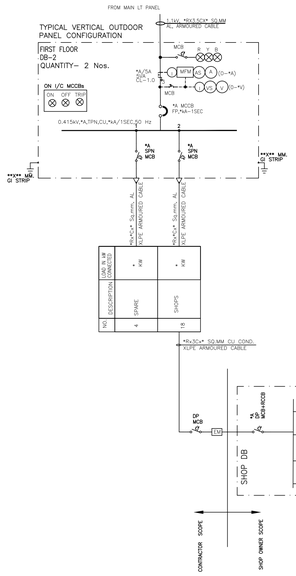
a) 415V PCC/LT FEEDER PANEL INCOMER & OUTGOING MCCB FEEDERS SHALL BE FP, FIXED TYPE, MICROPROCESSOR BASED O/C, S/C & INBUILT E/F RELEASES.

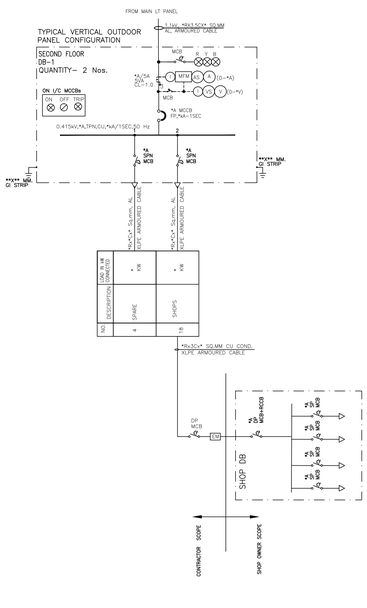
GENERAL NOTES:

1. THIS SLD SHOWS THE SCHEME FOR THE DISTRIBUTION OF THE POWER IN THE PANPOSH MARKET.
2. THE BIDDER HAS TO DO DETAIL ENGINEERING AND WORK OUT THE RATING OF THE EACH COMPONENT.
3. ALL THE EQUIPMENTS SHOULD BE AS PER RELEVANT IS/IEC STANDARD.
4. ALL POWER WIRING SHALL BE WITH 1.1kV, XLPE INSULATED, ALUMINIUM CONDUCTOR POWER CABLE.
5. ALL POWER WIRING SHALL BE WITH 1.1kV, PVC INSULATED, 2.5 SQ.MM. STRANDED COPPER WIRE FOR CONTROL WIRING & 2.5 SQ.MM. FOR CT SECONDARY WIRING.
6. ALL OUTGOING CT'S SHALL BE 5A SECONDARY IN PCC PANEL.
7. WIDTH OF TRENCH SHALL BE 500MM.
8. MINIMUM CABLE SEPARATION SHALL BE MIN 500MM AND CABLE ALLEY SHALL BE 300MM MIN.
9. ALL AIR CIRCUIT BREAKERS SHALL BE WITH Ics=Icu=100% & ALL MCCBs SHALL BE WITH Ics=Icu=100%.
10. IN ALL PANELS INCLUDING PCC/LT FEEDER PANEL, CURRENT RATING ABOVE 630A SHALL HAVE ACBs.
11. ALL MOTORS THAT ALLOW FOR DOL STARTING OF ACBs ON PCC WILL BE ON 110V AC SUPPLY SPRING CHARGING MOTORS OF ACBs WILL BE ON 110V AC SUPPLY.
12. VENDORS TO ENSURE TYPE TEST CO-ORDINATION FOR ALL MOTOR FEEDERS. MOTOR STARTERS SHALL BE COMPLETE WITH SPM (PHASE PREVENTOR AMMETER) IN MOTOR FEEDERS. SPM SHALL BE PROVIDED WITH THE FOLLOWING SETTINGS: PHASE SEQUENCE, PHASE FAILURE, PHASE UNBALANCE, OVERLOAD, STALL, JAM, LOW LOAD, LOCK OUT, RESTART, LOCAL & REMOTE RESET, TRIP INDICATION, OPERATING HANDLE FOR OPERATING MCCBs WITH THE DOOR CLOSED INTERLOCK SHALL BE PROVIDED. ALL MCCB FEEDERS ON ALL PANELS SHALL BE PROVIDED WITH ON/OFF/TRIP INDICATING LAMPS THROUGH AUXILIARY CONTACTS.
13. ALL ACB'S IN PANEL SHALL BE PROVIDED WITH 110V DC SHUNT TRIP & 110V DC CLOSE COIL.
14. FOR ALL LT PANEL CONTROL OF 110V AC SUPPLY FROM 415/110V PTS SHALL BE PROVIDED.
15. MODE TERMINALS SHALL BE SHROUDED AND SHALL BE DESIGNED TO RECEIVE CABLE LUGS FOR RELEVANT CABLE SIZES.
16. ALL INDICATING LAMPS SHALL BE MULTICHIP LED CLUSTER TYPE.
17. ALL MCB'S/MCCB'S FOR FEEDERS ON ALL PANELS SHALL BE SIMILAR TO SCHNEIDER MAKE 6400 NG.
18. ALL CONTACTORS / TIMERS SHALL BE ON DIN RAIL MOUNTING.
19. FAULT CLEARING TIME TO BE CONSIDERED WHILE SIZING OF CABLES SHALL BE AS FOLLOWS:
   a) PCC I/C-1 SEC.
   b) TRANSFORMER PRIMARY-0.5 SEC.
20. ALL MCCB'S SHALL BE MOUNTED ON BOTH SIDES.
21. ONE WAY OF NET METERING IS BEING PROVIDED IN THE SLD FOR INTEGRATION OF THE SOLAR WITH THE DISTRIBUTION SYSTEM.THIS METHODOLOGY NEED TO BE VERIFIED WITH THE STATE ELECTRICITY BOARD AND THE SOLAR PROVIDER.
22. SOLAR PROVIDER OF NET METERING SHALL BE DONE BY CONTRACTOR. SUPPLY OF THE SAME IS UNDER RSCL.
23. SOLAR POWER SUPPLY WILL NOT BE ON WHEN DG IS ON.
24. MINIMUM 50% SPARE AND 1N SPARE MCB'S SHALL BE PROVIDED WITH ATLEAST ONE FOR EACH RATING FEEDER.
25. TYPE 1 SPD AT PCC PANEL AND TYPE 2 SPD AT SUB PANEL HAS TO BE PROVIDED.









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	SIGN.												
	INITIALS												
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PO	SIGN.												18-02-2019
	INITIALS	TJ	KM	DT								VVB	
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE
					CLEARED								

ROURKELA SMART CITY LTD
PgMC FOR AREA BASED DEVELOPMENT

SCHEMATIC SLD
PANPOSH MARKET
SHEET 1 OF 2

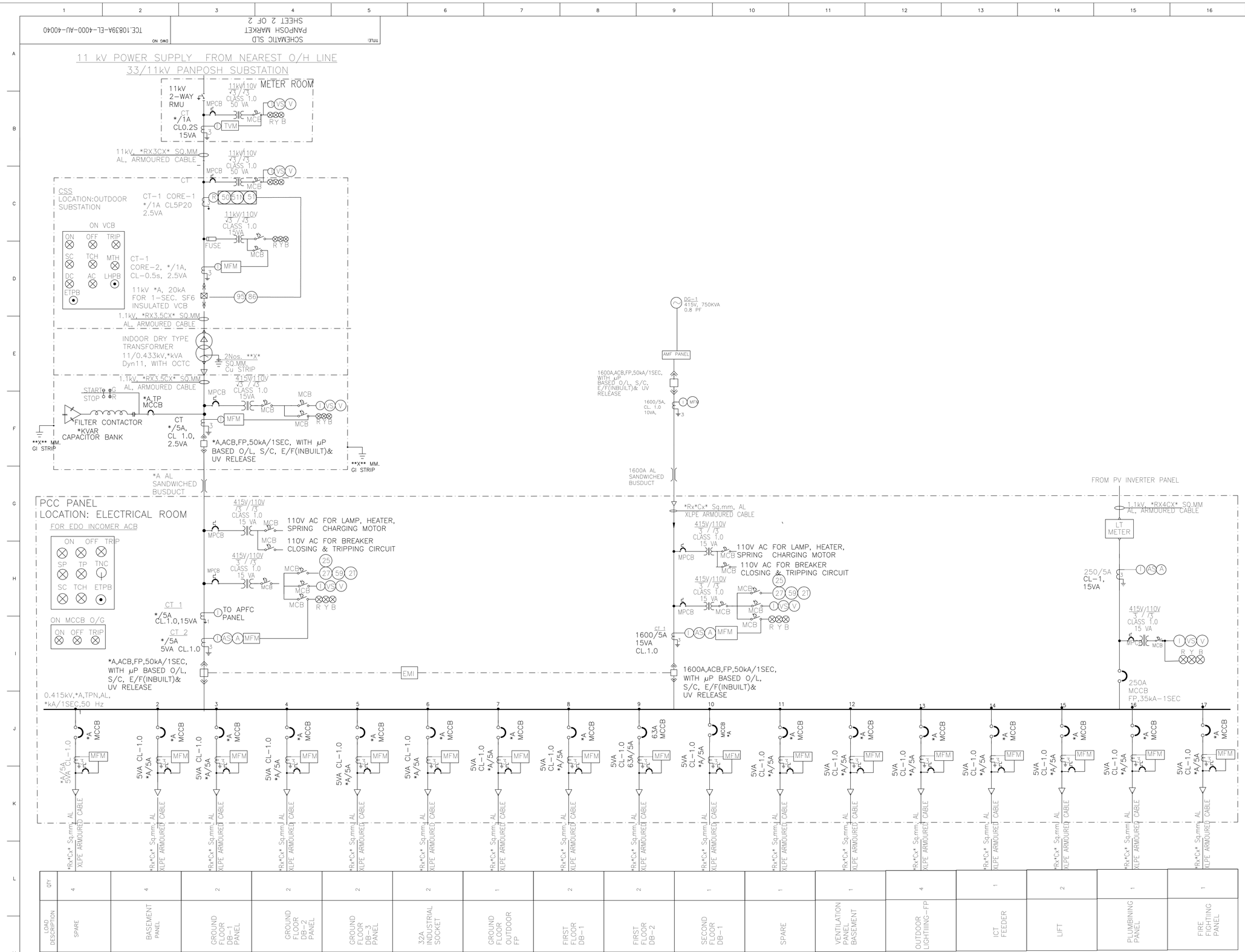
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS
DC & DISC : DEL-EL
DWG. NO. TCE.10839A-EL-4000-AU-40040
ISSUE PO

FILE NAME : TCE.10839A-EL-4000-AU-400041-Rev-P0

FILE NAME: F-090-Rev-R0.dwg

TCE FORM NO. 090 R0



LEGEND:

	LOAD BREAK SWITCH	R	RELAYING
		I	INSTRUMENTATION
	AIR CIRCUIT BREAKER (DRAW OUT)		LOAD BREAK SWITCH
		95	TRIP SUPERVISION RELAY
	VACCUM CIRCUIT BREAKER (SF6 ENCLOSED)	86	LOCK OUT RELAY
		27-3/4	UNDERVOLTAGE RELAY
	CHANGE OVER SWITCH	81	UNDERFREQUENCY RELAY
		SC	SPRING CHARGED
	MCB	TCH	TRIP CIRCUIT HEALTHY
	MCCB	50	INST. O/C PROTECTION
	MPCB	50N	INST. E/F PROTECTION
	CABLE GLAND	51	IDMT. O/C PROTECTION
	INDICATING LAMP	NC	NORMALLY CLOSED
	PUSH BUTTON	NO	NORMALLY OPEN
	CURRENT TRANSFORMER (CT) (FIGURE INDICATES NO. OF CT's)	49W	WINDING TEMP. HIGH INDICATOR WITH ALARM & TRIP CONTACTS
	POTENTIAL TRANSFORMER	VS	VOLTMETER SELECTOR SWITCH
	AMMETER SELECTOR SWITCH	V	ANALOG VOLTMETER
	ANALOG AMMETER		CONTACTOR
	DISTRIBUTION TRANSFORMER		PUSH BUTTON STATION
MFM	MULTIFUNCTION METER		ELECTRICAL PANEL
	CHOKE	A-M	AUTO MANUAL SELECTOR SWITCH
	DIESEL GENERATOR		
27	U/V RELAY	51	OVER CURRENT RELAY
59	O/V RELAY	51N	NEUTRAL O/C PROTECTION
81	OVER AND UNDER FREQUENCY RELAY	46	NEGATIVE PHASE SEQUANCE PROTECTION
32R	REVERSE POWER RELAY	25	SYNCHRONISING RELAY
95	MASTER TRIP RELAY	86	LOOK OUT RELAY
ETPB	EMERGENCY TRIP PUSH BUTTON	TP	TEST POSITION
TCH	TRIP CUT HEALTHY	NC	THREE POSITION SWITCH
SP	SERVICE POSITION	MTH	NORMALLY CLOSED
MTH		LHPB	

NOTES:

1. RATINGS, SIZES & QUANTITIES OF EQUIPMENTS MARKED AS '*' NEED TO BE CALCULATED BY THE CONTRACTOR BASED ON TENDER SPECIFICATIONS. CONTRACTOR SHALL SUBMIT THE TRANSFORMER SIZING & CORRESPONDING BREAKER SIZE CALCULATIONS DURING DETAILED ENGINEERING STAGE.
2. RATINGS, SIZES & QUANTITIES OF EQUIPMENTS (WHEREVER GIVEN) ARE MINIMUM REQUIREMENTS AND ARE FOR REFERENCE ONLY. BIDDER SHALL CALCULATE EQUIPMENT SIZES & RATINGS BASED ON DESIGN CRITERIA GIVEN IN TENDER.

HV SYSTEM:

1. VA BURDENS SHOWN ARE INDICATIVE. CONTRACTOR TO INDICATE BURDEN AS PER ACTUAL REQUIREMENT.
2. INTERTRIPPING & CLOSING INTERLOCK SHALL BE PROVIDED BETWEEN TRANSFORMER FEEDER (33kV) AND LT PANEL INCOMER(0.433kV) SIDE.
3. CT AND PT FOR HT METERING SHALL BE AS PER DISCOM REQUIREMENT.

LV SYSTEM:

a) 415V PCC/LT FEEDER PANEL INCOMER ACB FEEDERS SHALL BE FP, EDO TYPE, MICROPROCESSOR BASED O/L, S/C & INBUILT E/F AND UV RELEASES.
b) ALL OTHER ACBs EXCEPT FOR APFC INCOMER SHALL BE TPN, MOO TYPE, MICROPROCESSOR BASED O/L, S/C & INBUILT E/F RELEASES.
2. MCCB
a) 415V PCC/LT FEEDER PANEL INCOMER & OUTGOING MCCB FEEDERS SHALL BE FP, FIXED TYPE, MICROPROCESSOR BASED O/L, S/C & INBUILT E/F RELEASES.

GENERAL NOTES:

1. THE SLD SHOWS THE SCHEME FOR THE DISTRIBUTION OF THE POWER FOR THE PCC AT BOUNDRY ONE.
2. THE SLD SHOWS TO DO DETAIL ENGINEERING AND WORK OUT THE RATING OF THE EACH COMPONENT.
3. ALL THE EQUIPMENTS SHOULD BE AS PER RELEVANT SUCEC STANDARD.
4. CONTROL CABLE TERMINATION CHAMBER SHOULD BE ADJACENT FROM POWER CABLE.
5. ALL CONTROL WIRING SHALL BE 2.5 SQ.MM. FOR CT CIRCUITS AND 1.5 SQ.MM. INSULATED, 1.5 SQ.MM. STRANDED COPPER WIRE FOR CONTROL WIRING & 2.5 SQ.MM. FOR CT CIRCUITS AND WARNING.
6. ALL OUTGOING CTs SHALL BE OF 1A SECONDARY IN PCC PANEL.
7. ALL CABLES SHALL BE FR, FRLS, XLPE TYPE.
8. WIDTH OF FEEDER COLUMN SHALL BE MIN 500MM AND CABLE ALLEY SHALL BE 300MM MIN.
9. ALL AIR CIRCUIT BREAKERS SHALL BE WITH Ics=Icu=Icw=100% & ALL MCCBs SHALL BE WITH Ics=Icu=100%.
10. IN ALL PANELS INCLUDING PCC/LT FEEDER PANEL, CURRENT RATING ABOVE 630A SHALL HAVE ACBs.
11. ALL INDICATIONS, TRIP/CLOSING COILS OF ACBs ON PCC WILL BE ON 110V AC SUPPLY. SPRING CHARGING MOTOR SHALL BE 110V AC, 1PH, 50Hz.
12. VENDOR TO ENSURE THE CO-ORDINATION FOR ALL MOTOR FEEDERS, MOTOR STARTERS, SHALL BE COMPLETE WITH SINGLE PHASING PREVENTER, AMMETER IN MOTOR FEEDERS SHALL BE PROVIDED WITH SELECTOR SWITCH, ALL MCCB FEEDERS ON ALL PANELS SHALL BE PROVIDED WITH SHUNT TRIP.
13. THE ON, OFF AND TRIP POSITION OF MCCB SHALL BE CLEARLY INDICATED. OPERATING HANDLE FOR OPERATING MCCBs WITH THE DOOR CLOSED INTERLOCK SHALL BE PROVIDED. ALL MCCB FEEDERS ON ALL PANELS SHALL BE PROVIDED WITH SHUNT TRIP.
14. BRIDGED PV PANEL OF PROVIDED CONTROL SUPPLY SHALL BE SOURCED FROM INBUILT DC POWER PACK . FOR ALL LT PANELS, CONTROL SUPPLY OF 110V AC DERIVED FROM 415/110V PTI, SHALL BE PROVIDED.
15. MCCB TERMINALS SHALL BE SHROUDED AND SHALL BE DESIGNED TO RECEIVE CABLE LUGS FOR RELEVANT SIZE.
16. ALL INDICATING LAMPS SHALL BE MULTICHIP LED CLUSTER TYPE.
17. I/C MULTIFUNCTION METER FOR PCC, DG, APFC PANEL WILL BE SIMILAR TO SCHNEIDER MAKE 6400 NG.
18. ALL CONTACTORS & TIMERS SHALL BE DIN RAIL MOUNTED.
19. ALL CABLES HAVE TO BE CONSIDERED WHILE SIZING OF CABLES SHALL BE AS FOLLOWS:
a) PCC UPto 1 SEC.
b) TRANSFORMER PRIMARY: 0.16 SEC.
20. ALL PANELS SHALL BE EARTHED ON BOTH SIDES.
21. SOLAR PANEL SHALL BE ACCORDING TO THE PROVISIONS IN THE SLD FOR INTEGRATION OF THE SOLAR WITH THE DISTRIBUTION SYSTEMTHE METHODOLOGY NEED TO BE VERIFIED WITH THE STATE ELECTRICITY BOARD AND THE SOLAR VENDORS.
22. ONLY PROVISION SHALL BE MET METERING SHALL BE DONE BY CONTRACTOR, SUPPLY OF THE SAME IS UNDER RSCL.
23. ALL MCCB SHALL BE FIXED TYPE, ACB SHALL BE DRAWOUT TYPE.
24. MINIMUM 20% SPARE WILL TO BE PROVIDED WITH ATLEAST ONE FOR EACH RATING FEEDER.
25. TYPE 1 SPD AT PCC PANEL AND TYPE 2 SPD AT SUB PANEL HAS TO BE PROVIDED.

ISSUE		DRN	DSN	CHD	CV	EL	IC	ME	PE/PM	APPD	DATE
P0	INITIALS	TJ	KM	DT	--	--	--	--	--	VVB	18-02-2019

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FILE NAME : TCE.10839A-EL-4000-AU-400041-Rev-P0

ROURKELA SMART CITY LTD
ROURKELA PMC CITY LTD

ROURKELA SMART CITY LTD
pgmc FOR AREA BASED DEVELOPMENT

SCHEMATIC SLD
PANPOSH MARKET
SHEET 2 OF 2

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE	DWG. NO.	ISSUE
: NTS	TCE.10839A-EL-4000-AU-40040	P0

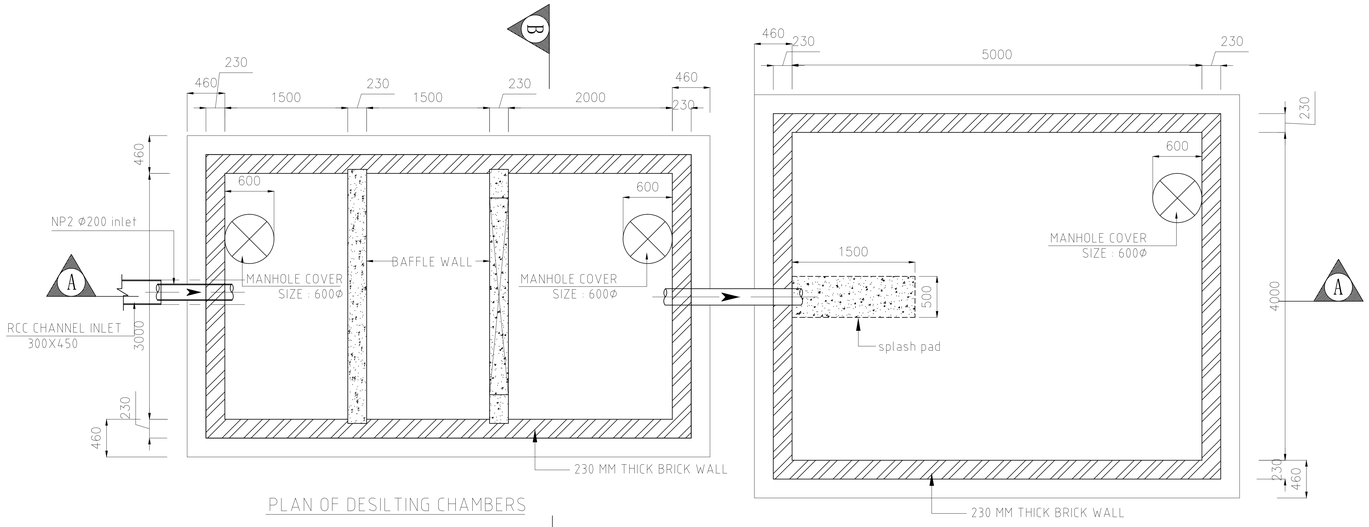
DC & DISC: DEL-EL

TCE FORM NO. 090 R0

FILE NAME: F-090-Rev-R0.dwg

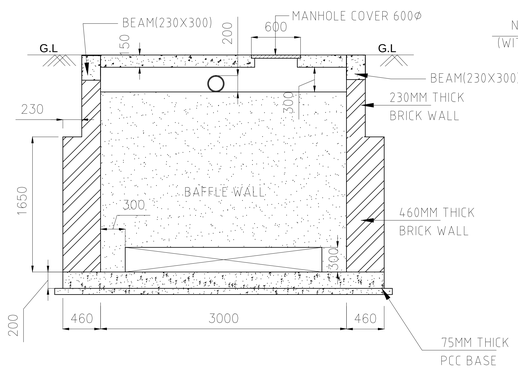
TCE.10839A-CV-3018-RC-30001 DWG NO

TYPICAL DETAIL OF RECHARGE PIT TITLE

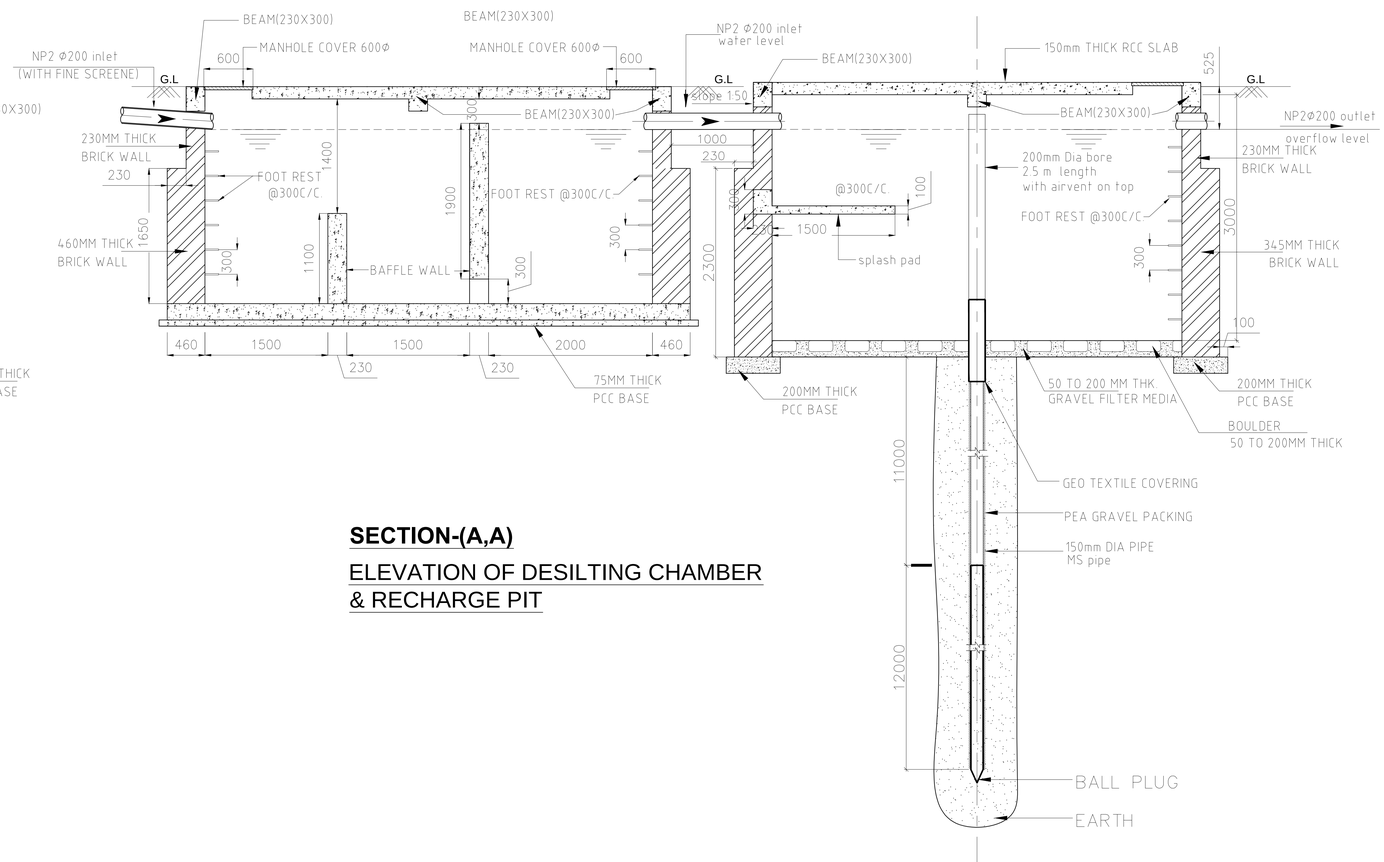


PLAN OF DESILTING CHAMBERS

PLAN OF RECHARGE PIT



SECTION-(B,B)



SECTION-(A,A)

ELEVATION OF DESILTING CHAMBER
& RECHARGE PIT

Notes

1. All dimension are in mm
2. Thickness of brick wall upto a depth of 1 meter is 230mm & beyond 1 meter depth it is 460mm
3. Baffle wall has been extended above the water level
4. Splash pad has been provided below the inlet pipe of recharge pit to protect the disturbance of filter media due to direct impact of water falling from inlet pipe.
5. Elevation of ground & inverts of recharge pits & desilting chambers depends upon the location of its construction.

DO NOT SCALE

ROURKELA SMART CITY LTD
PDMC FOR AREA BASED DEVELOPMENT

TYPICAL DETAIL OF RECHARGE PIT

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE: NTS	APPROVED
DATE (PO ISSUE)	
DEL.CENTRE-DISC:	DATE (CURRENT ISSUE)
DRN:	TG
CHD:	DWG NO TCE.10839A-CV-3018-RC-30001
ISSUE	

FILE NAME : TCE.10839A-CV-3018-RC-30001

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FOR R0 ISSUE ONLY		
CLEARED		
DISC.	SIGNATURE	DATE
CIVIL		
ELEC		
I&C		
MECH		

ISSUE	REVISIONS	DRN	CLEARED CIVIL	ELEC	I&C	MECH	APPD	DATE

FILE NAME: F-040-Rev-R5.dwg

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