



LEGENDS:-		
CODE	NAME	QTY
	EXISTING TRANSFORMER	421

NOTES

- THE DISTRIBUTION TRANSFORMER LOCATED IN THE PLAN MAY DIFFER ACTUAL PRESENT AT SITE.
- IT IS IN THE SCOPE OF BIDDER TO SURVEY PROPOSED SMART ROAD TO QUANTIFY ACTUAL DT'S PRESENT AT SITE.
- RMU LOCATION SHOWN IN DRAWING IS TENTATIVE AND MAXIMUM. BIDDER SURVEY THE LOCATION AND IDENTIFY ACTUAL REQUIREMENT OF RMU'S AT PROPOSED LOCATION.
- ALL DIMENSION MILLIMETRES AND LEVELS ARE INMETRES.
- DRAWING SHALL NOT BE SCALED FOR DIMENSION,ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
- ID'S OF DT LOCATED AT SOME OF PROPOSED SMART ROAD ARE NOT MENTIONED. IT IS BIDDER RESPONSIBILITY TO IDENTIFY ID'S.



PURPOSE : ONLY FOR 'P' ISSUES

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.

CONSTRUCTION / FABRICATION WORK IS PERMITTED ON 'R' (RELEASED) ISSUES ONLY.

INFORMATION CONTAINED WITHIN 'HOLD' IS NOT RELEASED FOR CONSTRUCTION / FABRICATION. FIELD MUST GET DESIGN OFFICE TO CLEAR 'HOLDS' IN TIME BEFORE PROCEEDING WITH ANY CONSTRUCTION / FABRICATION WORK RELATED TO 'HOLDS'.

Proprietary rights of the information contained herein belong to TCE. This information is intended to be used for the mentioned purpose/project only. In case of misuse of information and any claim arising thereof, cost and consequence will be on the party misusing the information.

FILE NAME : 10596A-EL-40004-P1



RAIPUR SMART CITY LIMITED
RAIPUR, CHHATTISGARH

DISTRIBUTION TRANSFORMER LOCATION ON PROPOSED SMART ROAD ABD AREA (SHEET- 1 OF 2)



TATA CONSULTING ENGINEERS LIMITED
WADIA TECHNO-ENGINEERING SERVICES LIMITED
MUMBAI



SCALE : NTS
DC & DISC: MUM-CV

DWG NO. TCE.10596A-EL-4028-TL-40004

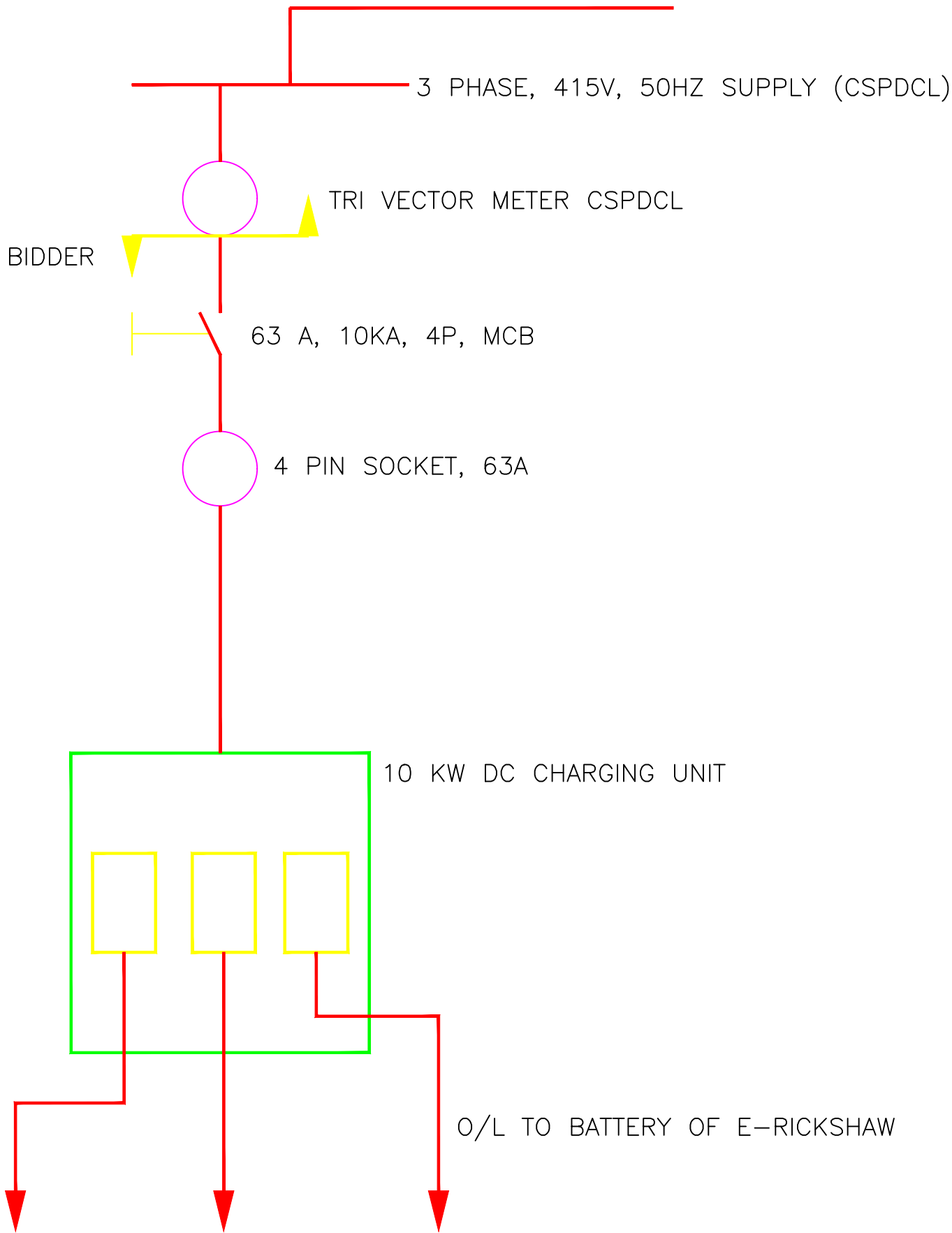
ISSUE P1

DO NOT SCALE

Proprietary rights of the information contained herein belong to TCE. This information is intended to be used for the mentioned purpose/project only. In case of misuse of information and any claim arising thereof, cost and consequence will be on the party misusing the information.

		RAIPUR SMART CITY LIMITED RAIPUR, CHHATTISGARH	
DISTRIBUTION TRANSFORMER LOCATION ON PROPOSED SMART ROAD ABD AREA (SHEET- 2 OF 2)			
		TATA CONSULTING ENGINEERS LIMITED WADIA TECHNO-ENGINEERING SERVICES LIMITED MUMBAI	
SCALE : NTS	DWG NO.	EC-10596A-FL-4028-TL-40004	ISSUE : P

TYPICAL POWER SUPPLY ARRANGEMENT FOR E-RICKSHAW UNIT



- NOTE :-
- 1. VENDOR HAS TO APPLY FOR 3PH, 415V SUPPLY FROM DISCOM / CSPDCL FOR SANCTIONED LOAD OF 20KW / AS PER THE LOAD REQUIREMENT.
 - 2. CSPDCL HAS TO PROVIDE SUPPLY TILL METERING UNIT.
 - 3. VENDOR TO WIRE UP TO THE CHARGER FROM THE METER POINT (10 M FROM THE CHARGER INSTALLATION).



RAIPUR SMART CITY LIMITED
RAIPUR, CHHATTISGARH

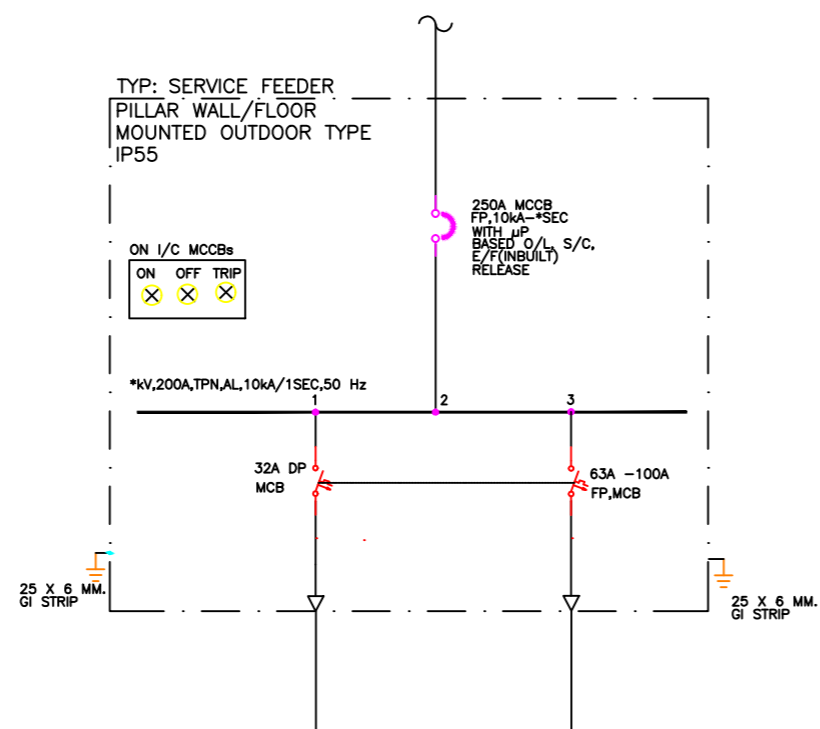
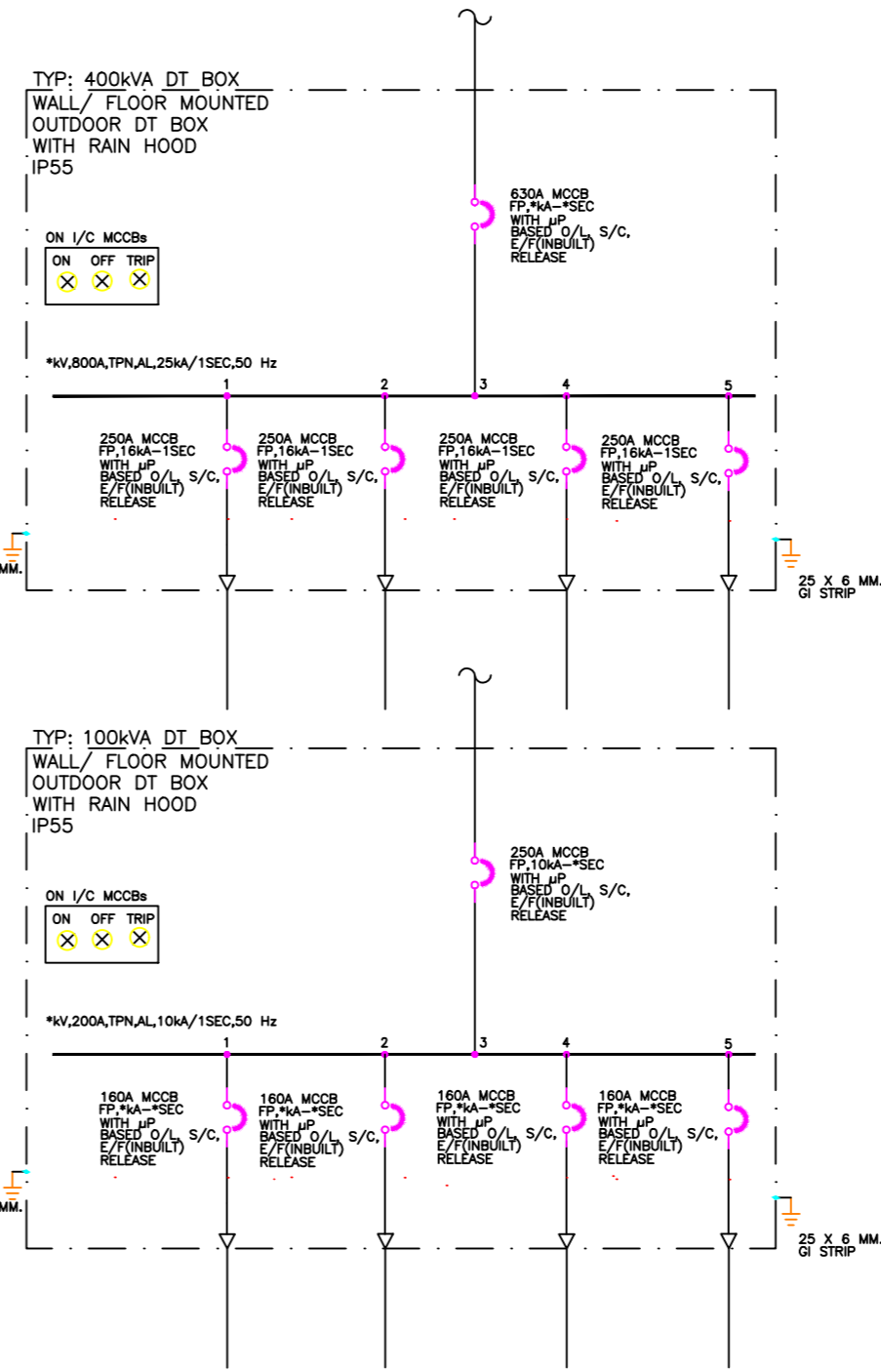
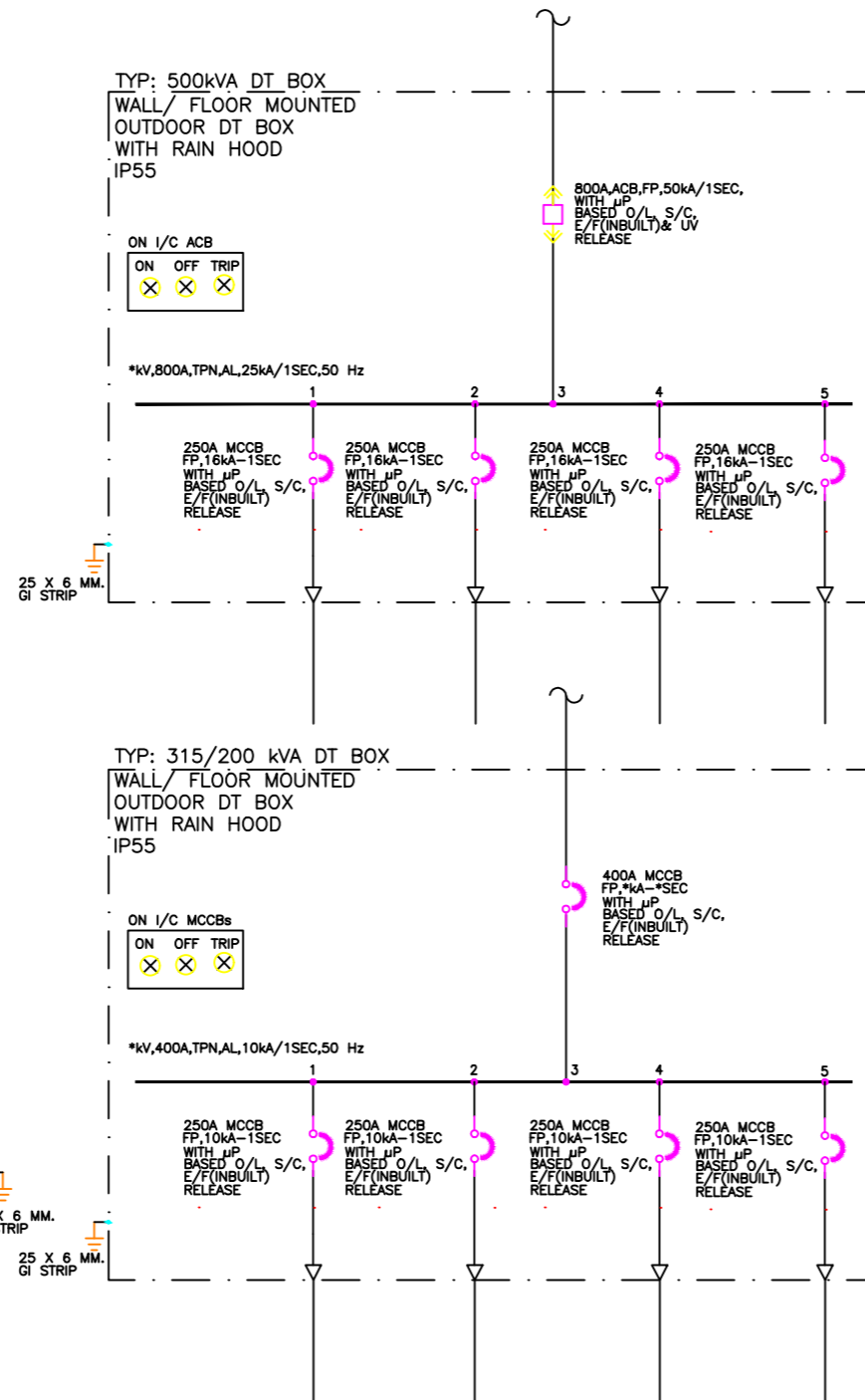
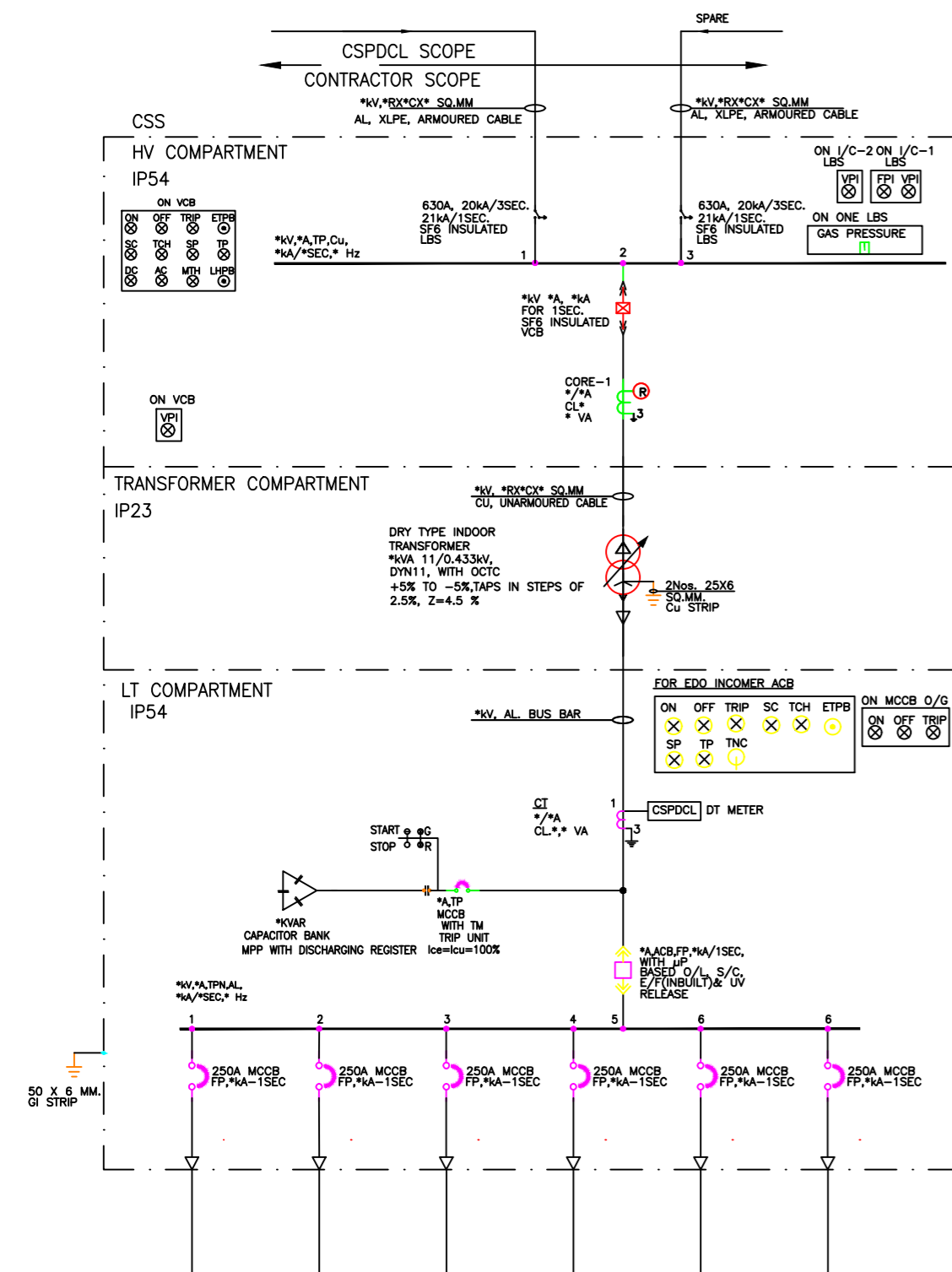
TYPICAL POWER SUPPLY ARRANGEMENT
FOR E-RICKSHAW UNIT













TATA CONSULTING ENGINEERS LIMITED
WADIA TECHNO-ENGINEERING SERVICES LIMITED
MUMBAI



	SIGN.												
	INITIALS												
	REVISIONS												
P0	SIGN.												
	INITIALS												
	REVISIONS	(31.08.2018)											
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE



LEGEND:	
	LOAD BREAK SWITCH
	AIR CIRCUIT BREAKER
	VACUUM CIRCUIT BREAKER (SF ₆ ENCLOSED)
	MCB
	MCCB
	CABLE GLAND
	INDICATING LAMP
	PUSH BUTTON
	CURRENT TRANSFORMER (CT) (FIGURE INDICATES NO. OF CT's)
	DISTRIBUTION TRANSFORMER

NOTES:

1. THIS IS TYPICAL BILDO FOR OUTDOOR DT BOX SERVICE FEEDER PILLAR AND CSS. 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 ALONGWITH THE BID.
2. 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.
3. VA BURDENS SHOWN ARE INDICATIVE. CONTRACTOR TO INDICATE BURDEN AS PER ACTUAL REQUIREMENT.
4. INTER TRIPPING & CLOSING INTERLOCK SHALL BE PROVIDED BETWEEN TRANSFORMER FEEDER AND LT PANEL INCOMER (0.433KV) SIDE.
5. CT AND PT FOR HT METERING SHALL BE AS PER CSPDCL NORMS.
6. 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.
7. THE BIDDER HAS TO DO DETAIL ENGINEERING AND WORK OUT THE RATING OF THE EACH COMPONENT
8. IN ALL PANELS INCLUDING PCC/LT FEEDER PANEL, CURRENT RATING ABOVE 630A SHALL HAVE ACBs.
9. 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 ON/OFF/TRIP INDICATING LAMPS THROUGH AUXILIARY CONTACTS.
10. MCCB TERMINALS SHALL BE SHROUDED AND SHALL BE DESIGNED TO RECEIVE CABLE LUGS FOR RELEVANT CABLE SIZES.
11. ALL INDICATING LAMPS SHALL BE MULTICHIP LED TYPE.
12. ALL CONTACTORS / TIMERS SHALL BE DIN RAIL MOUNTED.
13. ALL PANELS SHALL BE EXTENDIBLE ON BOTH SIDES.
14. THE SPACE PROVISION IS TO BE MADE FOR THE METER AS PER CSPDCL NORMS.
15. MINIMUM 20% SPARE OF EACH RATING AND TYPE SHALL BE PROVIDED.
16. APFC PANEL REQUIRED FOR POWER FACTOR IMPROVEMENT 0.99 SHALL BE INTEGRAL PART OF CSS.
17. CONTACTOR SHALL BE SUITABLE FOR CAPACITOR DUTY APPLICATION.
18. APFC RELAY SHALL BE SUITABLE FOR 6 STAGE.

[illegible]

PURPOSE : ONLY FOR 'P' ISSUES

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.

CONSTRUCTION / FABRICATION WORK IS PERMITTED ON 'R' (RELEASED) ISSUES ONLY.

INFORMATION CONTAINED WITHIN 'HOLD' IS NOT RELEASED FOR CONSTRUCTION / FABRICATION. FIELD MUST GET DEDICATED 'HOLD' TO 'HOLDS' IN TIME BEFORE PROCEEDING WITH ANY CONSTRUCTION / FABRICATION WORK RELATED TO 'HOLDS'.

Proprietary rights of the information contained herein belong to TCE. This information is intended to be used for the mentioned purpose/project only, in case of misuse, information and any claim arising therefrom, costs and consequence will be on the party misusing the information.

FILE NAME : 10596A-EL-40029-P0



RAIPUR SMART CITY LIMITED

RAIPUR, CHHATTISGARH

SCHEMATIC SLD FOR COMPACT SUBSTATION,
OUTDOOR DT BOX , AND SERVICE FEEDER PILLAR



TATA CONSULTING ENGINEERS LIMITED
WADIA TECHNO-ENGINEERING SERVICES LIMITED
MUMBAI



SCALE	: NTS
-------	-------

DWG NO.	TCF
---------	-----

DWG. NO. TCE.10596A-EL-4000-AU-40029

ISSUE

7 | Page