MAIN FEEDER PILLAR- MARKET DL:55.00 KW μp/MICRO BASED O/L+S/C+E/F RELEASE. 160A,4P φ MCCB $\otimes \otimes \otimes$ 250A, 415V, 4P, AL. BUS, 25kA, 1Sec. 40A,4P 100A,4P 63A,4P 63A,4P ⁶ \ 100A,4P 63A 4P **?** МСВ MCCB MCCB MCCB P MCCB φノ MCCB ノ MCCB φノ MCCB MCCB φノ MCCB MCCB MCB MCB CL-1,15VA

MOULDED CASE CIRCUIT BREAKER _**^***_ MINITURE CIRCUIT BREAKER LOAD MANAGER EARTH CURRENT TRANSFORMER ISOLATOR MOTOR PROTECTION CIRCUIT BREAKER INDICATION LAMPS SC - SPRING CHANGED SP - SERVICE POSITION TP - TEST POSITION CSH - CONTROL SUPPLY HEALTHY LTPB - LAMP TEST PUSH BUTTON TCPB - TRIP COIL PUSH BUTTON ETPB - EMERGENCY TRIP PUSH BUTTON TRANSIENT VOLTAGE SURGE SUPPRESSOR AUTOMATIC POWER FACTOR CORRECTION RELAY EARTH FAULT RELAY MULTI FUNCTION METER ELECTRICAL MEC. INTERLOCK MACHINE OR TRANSFORMER THERMAL RELAY NEUTRAL GROUND OVER-CURRENT RELAY FREQUENCY RELAY OVER-VOLTAGE RELAY AC TIME OVER-CURRENT RELAY TIME DELAY GROUND FAULT RELAY VOLTMETER VOLTMETER SELECTOR SWITCH AMMETER SELECTOR SWITCH AMMETER FUSE MARSHALLING BOX SURGE ARRESTER CAPACITOR BANK

NOTES:

(KWH), MD (KW/KVA).

0 0 0

LEGEND

AIR CIRCUIT BREAKER

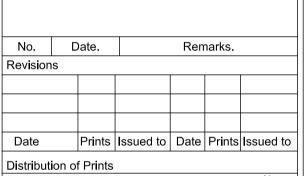
1. ALL SWITCHGEARS SHALL BE PROVIDED WITH TNC SWITCHES.

ANNUNCIATOR

- 2. ALL SURGE ARRESTER SHALL BE WITH SURGE COUNTER. 3. ALL MCBS SHALL BE CURRENT LIMITING TYPE.
- 4. THE ON , OFF AND TRIP POSITION OF MCCB SHALL BE CLEARLY INDICATED.OPERATING HANDLE FOR OPERATING MCCBS WITH THE DOOR CLOSED SHALL BE PROVIDED.
- 5. ALL INDICATING LAMPS SHALL BE MULTICHIP LED TYPE.
- 6. ALL BUS COUPLERS SHOULD BE WITH ON (RED) & OFF (GREEN) INDICATION LAMPS. 7. MULTI FUCTION METER & ENERGY METER SHALL BE PROVIDED WITH (BUT NOT LIMITED TO) FOLLOWING METRINGS FEATURES: CURRENT, VOLTAGE, ENERGY
- 8. ALL VERTICAL & HORIZONTAL BUSBARS SHALL BE WITH MENTIONED RATING
- 9. MPCB SHALL BE USED INSTEAD OF FUSE WHILE FEEDING CONTROL SUPPLY VOLTAGE I.E. 230V AC DIRECTLY DERIVED FROM AC BUS.
- 10. ALL MCCB FEEDERS ON ALL PANELS SHALL BE PROVIDED WITH ON/OFF/TRIP INDICATING LAMPS THROUGH AUXILARY CONTACTS.
- 11. ALL MCC PANELS RELAY SETTING & CONTROLS SHALL SUIT TO MOTOR CAPACITY AS PER TYPE 2 CO-ORDINATION.
- 12. MULTI FUNCTION METER (MFM) SHALL BE CLASS-1 AND SHALL BE PROVIDED WITH
- RS485 PORT & MOD BUS COMMUNICATION PROTOCOL.
- 13. METAL ENGRAVED CAUTION BOARD'S SHALL BE RIVETTED ON COVERS FOR BUSBAR CHAMBERS.
- 14. NEUTRAL IS REQUIRED FOR ALL PANELS AS SHOWN.SIZE OF NEUTRAL SHALL BE 50% OF PHASE FOR ALL PANELS EXCEPT UPS PANELS.FOR UPS PANLES NEUTRAL SHALL BE 200% OF PHASE.
- 15. FOR SPARE FEEDERS MFM / EM IS NOT REQUIRED, HOWEVER, SPACE PROVISION SHALL BE MADE FOR MFM / EM.
- 16. ALL SIGNALS MONITORING SHALL BE SOFT SIGNALS RS485 PORT.
- 17. THE CONTRACTOR AND PANEL VENDOR IS RESPONSIBLE FOR RELAY/RELEASE COORDINATION, OVERCURRENT/EARTH FAULT/SHORT CIRCUIT CURRENTSETTINGS AT VARIOUS LEVELS AND AT EACH PANEL/DB. TO ACHIEVE PROPER FAULT DISCRIMINATION.RELAY SETTINGS AT EACH VOLTAGE LEVEL SHALL BE SUITABLY SELECTED, COORDINATED AND SET AT SITE BY ELECTRICAL CONTRACTOR TO ACHIEVE PROPER DISCRIMINATION.

NOTES

- ALL DIMENSIONS SHALL BE CHECKED AND CO-RELATED WITH THE STRUCTURAL DRAWINGS AND ANY AMBIGUITY SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE ARCHITECT BEFORE COMMENCEMENT OF THE WORK.
- 2. ALL DIMENSIONS ARE IN CENTIMETERS UNLESS AND OTHERWISE SPECIFIED
- 4. ALL MARGINS, CLEARENCES ETC. REQUIRED AS PER BYE-LAWS SHOULD BE CHECKED AND PROVIDED BY THE CONTRACTOR AND ANY DESCRIPENCIES FOUND SHOULD BE IMMIDIATELY BROUGHT TO THE NOTICE OF ARCHITECT BEFORE COMMENCEMENT OF WORK.



Consultants

Key Plan

Structural Consultants VR SHAH Consulting Engineers

Services Consultants

2nd Floor, D-62, Sector -2, Noida - 201301 www.dbhms.in

Landscape Consultants Earthscapes Consultancy Pvt Ltd

Road and Pathways Consultants Arhmm Infra Consultants LLP

Scale :

Nalanda University, Rajgir, Bihar

SINGLE LINE DIAGRAM - ELECTRICAL

NUC(1)-CM-E4.0 Checked:

N.T.S.

05.08.2016 **VASTU SHILPA CONSULTANTS** Architects I Planners I Urban Designers

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1RX 4CX 25 SQMM A2XFY

мсв

10KA |

ENCLOSER

100A, 415V, 4P, CU.

MCB

10KA

LDB-BANK

BUS.10kA, 1Sec.

TPN MCB 10KA

PDB-BANK

1RX 4CX 25 SQMM A2XFY

мсв

10KA

LNP VTPN DB

МСВ

10KA

LPDB-POST

100A, 415V, 4P, CU.

MCB

UPS ENCLOSER

SINGLE LINE DIAGRAM

