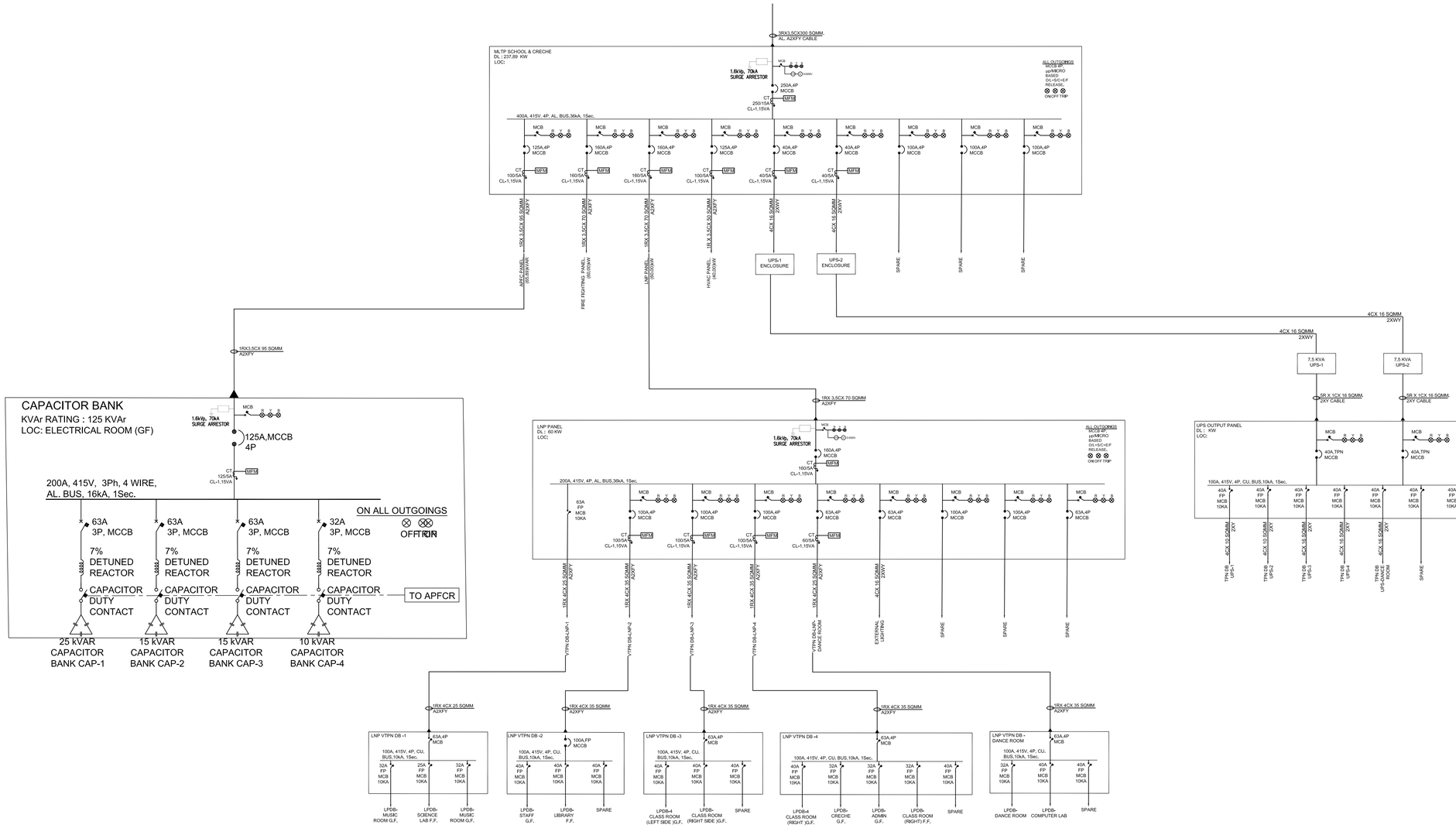

NOTES

1. 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
3. ALL LEVELS ARE FINISHED LEVELS.
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.

LEGEND

	AIR CIRCUIT BREAKER
	MOULDED CASE CIRCUIT BREAKER
	MINITURE CIRCUIT BREAKER
LM	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
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
APFC/R	AUTOMATIC POWER FACTOR CORRECTION RELAY
EF	EARTH FAULT RELAY
	MULTI FUNCTION METER
EML	ELECTRICAL MEC. INTERLOCK
49	MACHINE OR TRANSFORMER THERMAL RELAY
50/51	NEUTRAL GROUND OVER-CURRENT RELAY
81	FREQUENCY RELAY
59	OVER-VOLTAGE RELAY
51	AC TIME OVER-CURRENT RELAY
51N	TIME DELAY GROUND FAULT RELAY
V	VOLTMETER
2V	VOLTMETER SELECTOR SWITCH
3A	AMMETER SELECTOR SWITCH
A	AMMETER
	FUSE
	MARSHALLING BOX
	SURGE ARRESTER
	CAPACITOR BANK
	ANNUNCIATOR

NOTES:

1. ALL SWITCHGEARS SHALL BE PROVIDED WITH TNC SWITCHES.
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 VISIBLE. PROVISION OF 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 IRES & OFF (GREEN) INDICATION LAMPS.
7. MULTI FUCTION METER & ENERGY METER SHALL BE PROVIDED WITH (BUT NOT LIMITED TO) FOLLOWING METERINGS FEATURES: CURRENT, VOLTAGE, ENERGY (KWH), MD (KW / KVA).
8. ALL VERTICAL & HORIZONTAL BUSBARS SHALL BE WITH MENTIONED RATING AT 50 DEG C.
9. MPCB SHALL BE USED INSTEAD OF FUSE WHILE FEEDING CONTROL SUPPLY VOLTAGE I.E. 230V AC DIRECTLY DERIED FROM AC BUS.
10. ALL MCCB FEEDERS ON ALL PANELS SHALL BE PROVIDED WITH ON/OFF/TRIP INDICATING LAMPS THROUGH AUXILIARY CONTACTS.
11. ALL MCC PANELS - RELAY SETTING & CONTROLS SHALL BUIT TO MOTOR CAPACITY AS PER TYPE 2 COORDINATION.
12. MULTI FUNCTION METER (MFM) SHALL BE CLASS-1 AND SHALL BE PROVIDED WITH RS485 PORT & MOD BUS COMMUNICATION PROTOCOL.
13. METAL ENGRAVED CAUTION BOARDS SHALL BE RIVETED ON COVERS FOR ACCESSIBLE EQUIPMENT.
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. ALL SWITCHGEARS MAKE AND MODEL VENDOR IS RESPONSIBLE FOR RELAY/RELEASE COORDINATION, OVERCURRENT/EARTH FAULT/SHORT CIRCUIT CURRENT/SETTINGS AT VARIOUS LEVELS AND AT EACH PANEL/DB, TO ACHIEVE PROPER DISCRIMINATION. ACCORDINGLY RELAY AT EACH VOLTAGE LEVEL SHALL BE INSTANLY SELECTED, COORDINATED AND SET AT SITE BY ELECTRICAL CONTRACTOR TO ACHIEVE PROPER DISCRIMINATION.

No.	Date.	Remarks.
Revisions		

Date	Prints	Issued to	Date	Prints	Issued to

Distribution of Prints

Key Plan

N

Consultants

Structural Consultants
VR SHAH Consulting Engineers

Services Consultants
dbHMS
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

Project

Nalanda University, Rajgir, Bihar

Title
SINGLE LINE DIAGRAM – ELECTRICAL

FOR TENDER

Dealt :	AD	Drawing No. NUC(1)–SCH–E4.0
Checked :	MT	
Scale :	N.T.S	
Date :	05.08.2016	Approved.

VASTU SHILPA CONSULTANTS
Architects I Planners I Urban Designers

'Sangath', Thaltej Road, Ahmedabad - 380054
Phone: 079 - 27454537 Fax: 079 - 27452006
www.sangath.org e-mail: **vsc@sangath.org**

1 SINGLE LINE DIAGRAM - ELECTRICAL

N