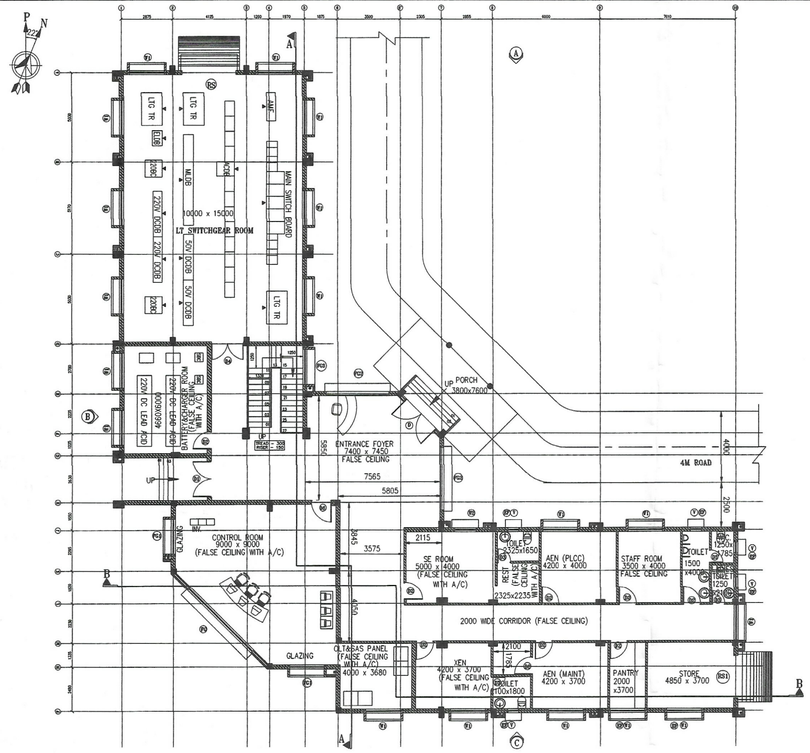
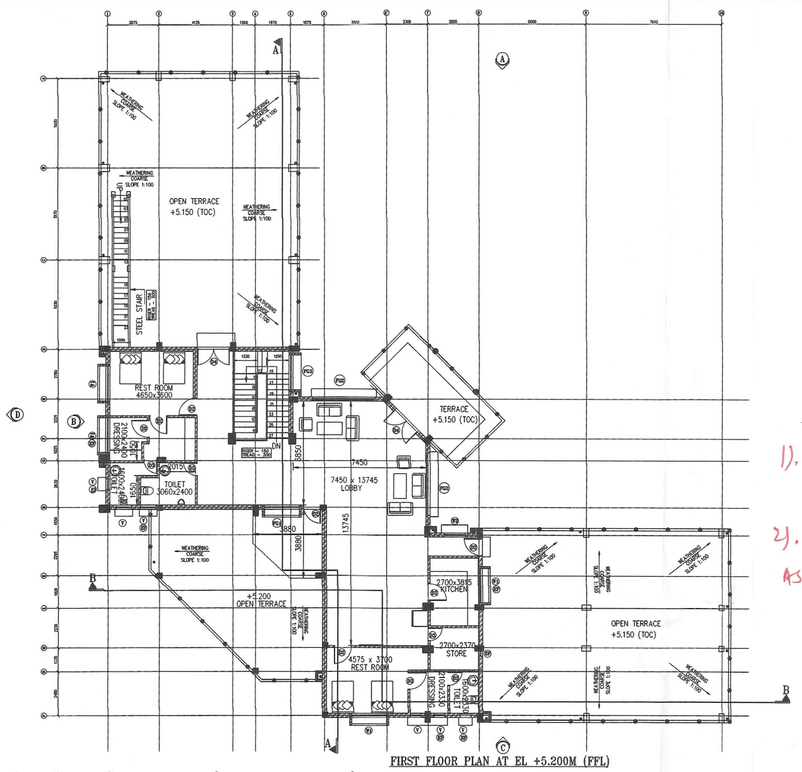
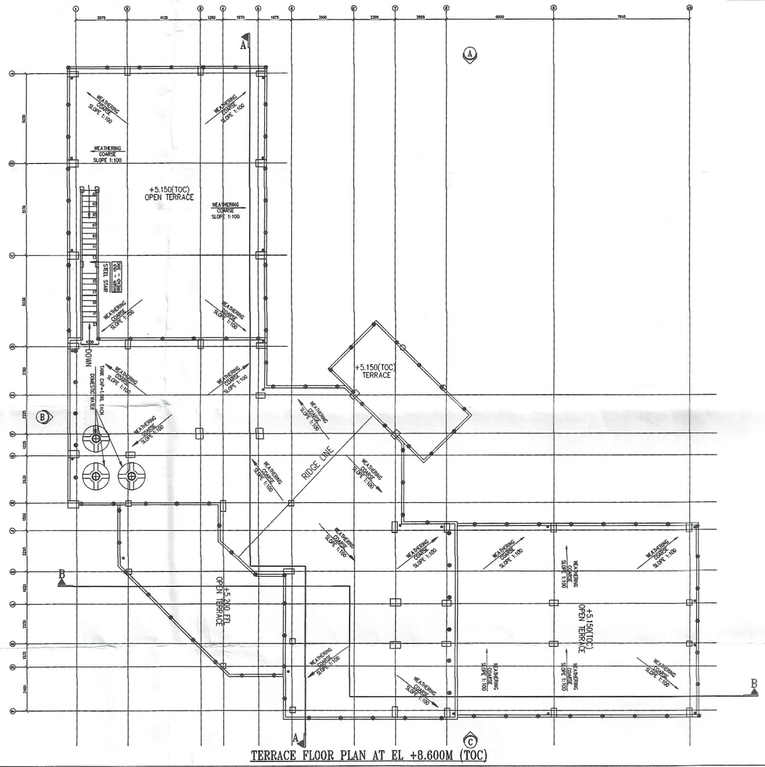


GROUND FLOOR PLAN AT +1.100M (FFL)



FIRST FLOOR PLAN AT EL +5.200M (FFL)



TERRACE FLOOR PLAN AT EL +8.600M (TOC)

Generally Approved
S.E. XEN (C&M) AEN
RRVPNL JAIPUR

1). MINOR MODIFICATION OR IMPROVEMENT MAY BE MADE AS PER DIRECTION OF SITE IN CHARGE.

2). FALSE CEILING AND AC SHALL BE PROVIDED AS PER SPECIFICATIONS AND DIRECTION OF ENGINEER IN CHARGE.

REV.	DISCREPTION	REMARKS	DATE	SIGN.

CLIENT: RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LIMITED

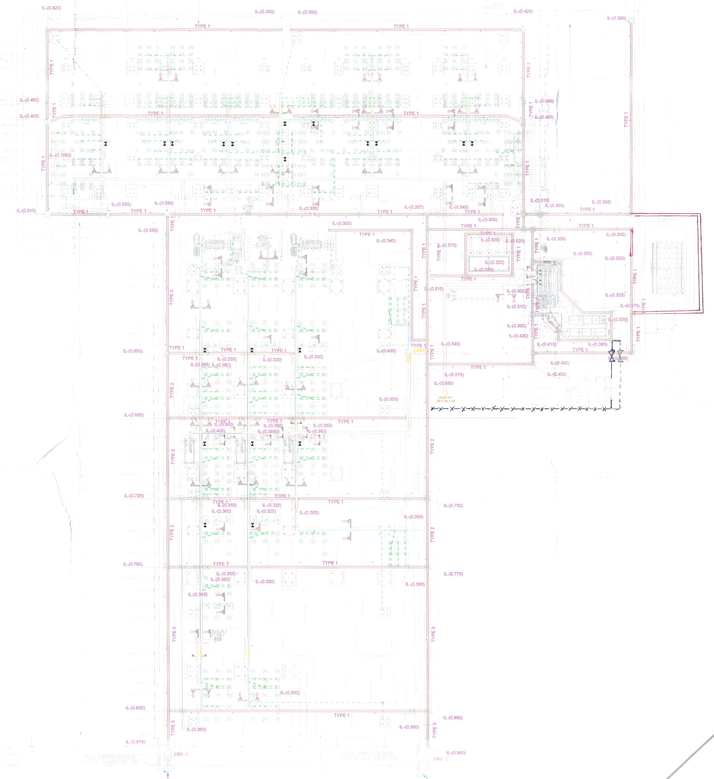
PROJECT NAME:
CONSTRUCTION OF 400/220KV GSS AT HANUMANGARH AND ASOCIATED BAY WORK AT 1X220kV FFEDER BAY AT 220KV GSS RAWATSAR, 1x132KV FEEDER BAY AT 220KV GSS UDHYOG VIHAR & 1X132KV FEEDER BAY AT 132KV GSS SRIGANGANGAR,

NOA NO: RVPN/SE/CONTRACTS-II/XEN-3(KW)/NCB-3/BN-9019002415/D, DATED:19.03.2025

CONTRACTOR: Amara Raja Infra Pvt. Limited, COO, Hyderabad-500032

	NAMES	SIGN.	DATE
DRAWN	MK		11.09.25
CHKD.	KSK		11.09.25
APPD.	NSV		11.09.25

SCALE	TITLE	SHEET No.
NTS	400KV CONTROL BUILDING ARCHITECTURE PLAN, SECTION AND ELEVATION	1 OF 2
	DRG. NO: ARIPL-RRVPNL-HANUMANGARH-C-400-ARCH-CRB-01	REV.NO. R0



ALL DIMENSIONS ARE IN mm & WEIGHTS ARE IN kg UNLESS OTHERWISE SPECIFIED.

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ANY FORM IS TO BE DONE WITH THE SPECIFIC PERMISSION OF
THE COMPANY.

LEGENDS:

CHAIN LINKING FENCE

BOUNDARY WALL

SK Mosaraf Hossain
Manager-Project Execution
Amara Raja Infra Pvt.Ltd.

Assistant Engineer (Civil)
RRVPNL,Hanumangarh

Executive Engineer (Civil)
RRVPNL,Hanumangarh

Assistant Engineer (T&C)
RRVPNL, Hanumangarh

Executive Engineer (T&C)
RVPN, Hanumangarh

Superintending Engineer (T&C)
RRVPNL, Hanumangarh

REFERENCE DRAWING:
ELECTRICAL LAYOUT & SECTION LAYOUT FOR 400/220KV SUBSTATION AT HANUMANGARH – ARIPL/RRVPNL/HANUMANGARH/EL-003

REV.	DISCREPTION	REMARKS	DATE	SIGN.
00	FIRST SUBMISSION	APPROVAL	27.11.25	NSV

CLIENT: RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LIMITED

PROJECT NAME:
CONSTRUCTION OF 400/220KV GSS AT HANUMANGARH AND ASOCIATED BAY WORK AT 1X220kV FFEDER BAY AT 220KV GSS RAWATSAR, 1x132KV FEEDER BAY AT 220KV GSS UDHYOG VIHAR & 1X132KV FEEDER BAY AT 132KV GSS SRIGANGANGAR.

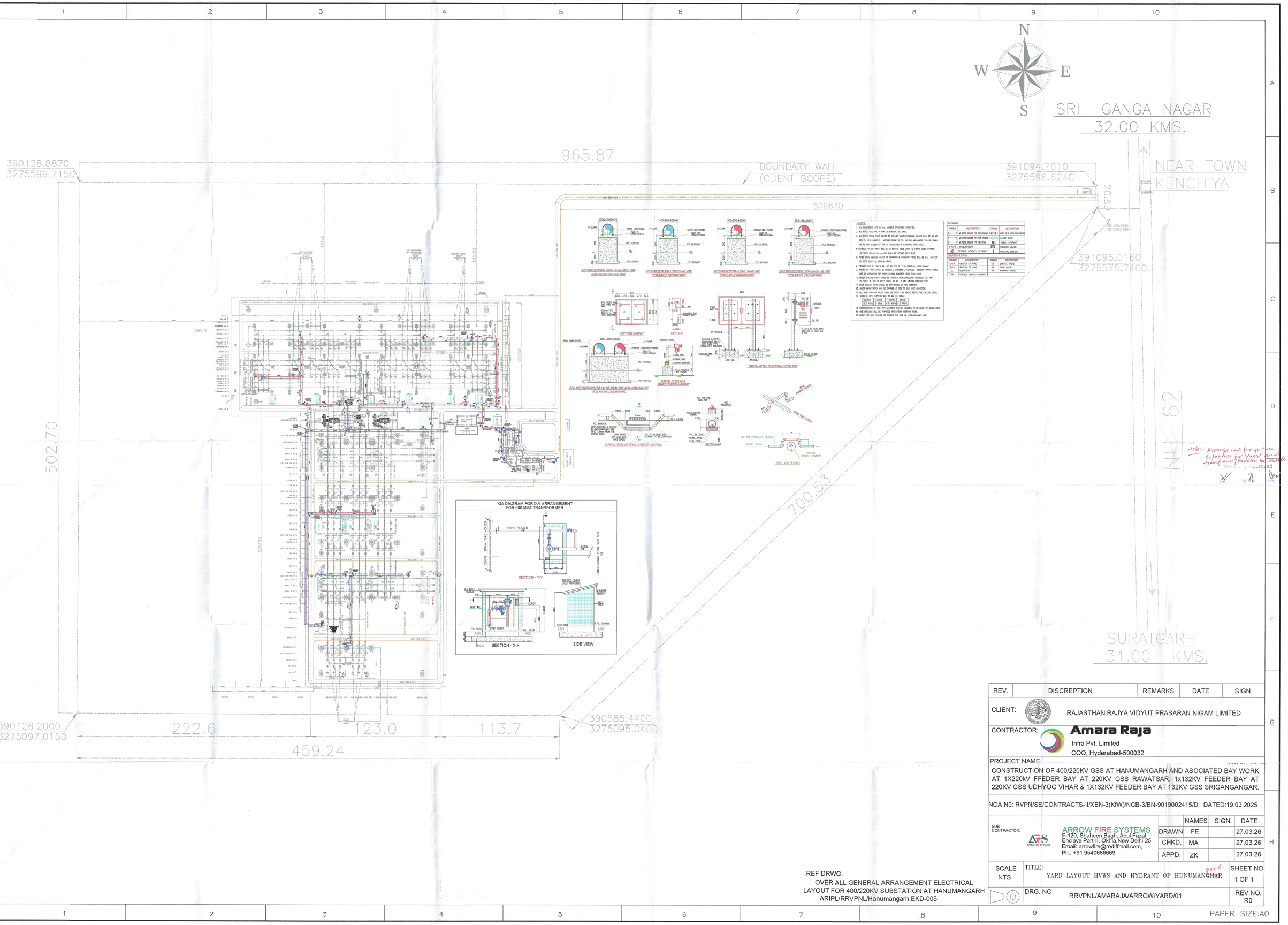
NOA N0: RVPN/SE/CONTRACTS-II/XEN-3(KfW)/NCB-3/BN-9019002415/D. DATED:19.03.2025

CONTRACTOR: Amara Raja Infra Pvt. Limited COO, Hyderabad-500032

	NAMES	SIGN.	DATE
DRAWN	KHAN		27.11.25
CHKD.	SVN		27.11.25
APPD.	NSV		27.11.25

SCALE	TITTLE:	SHEET NO.
NTS	OUTDOOR CABLE TRENCH LAYOUT FOR 400/220KV SUBSTATION AT HANUMANGARH	1/3
	DRG. NO: ARIPL/RRVPNL/HANUMANGARH/ELE -CATRE-008	REV.NO. R0

PAPER SIZE:A0



REV.	DISCREPTION	REMARKS	DATE	SIGN.
CLIENT:	RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LIMITED			
CONTRACTOR:	Amara Raja Infra Pvt. Limited COO, Hyderabad-500032			

PROJECT NAME:
CONSTRUCTION OF 400/220KV GSS AT HANUMANGARH AND ASOCIATED BAY WORK AT 1X220kV FFEDER BAY AT 220KV GSS RAWATSAR, 1x132KV FEEDER BAY AT 220KV GSS UDHYOG VIHAR & 1X132KV FEEDER BAY AT 132KV GSS SRIGANGANGAR.

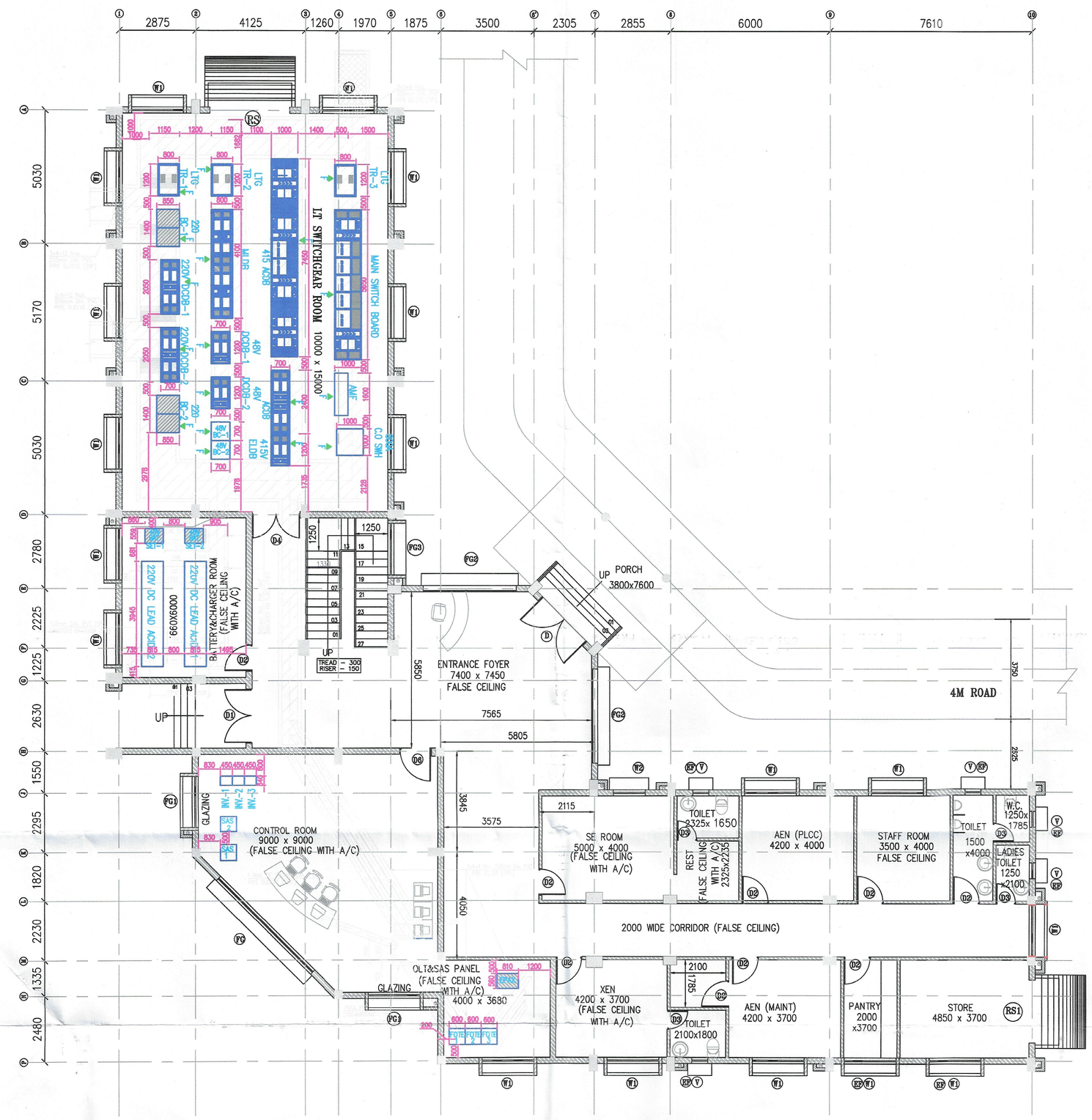
NOA N0: RVPN/SE/CONTRACTS-II/XEN-3(KfW)/NCB-3/BN-9019002415/D. DATED:19.03.2025

SUB CONTRACTOR:
ARROW FIRE SYSTEMS
F-120, Shaheen Bagh, Abul Fazal Enclave Part-II, Okhla,New Delhi-25
Email: arrowfire@rediffmail.com,
Ph.: +91 9540686669

	NAMES	SIGN.	DATE
DRAWN	FE		27.03.26
CHKD.	MA		27.03.26
APPD.	ZK		27.03.26

SCALE	TITLE:	SHEET NO
NTS	YARD LAYOUT HVWS AND HYDRANT OF HUNUMANGHAR 220kV	1 OF 1
	DRG. NO: RRVPNL/AMARAJA/ARROW/YARD/01	REV.NO. R0

PAPER SIZE:A0



GROUND FLOOR PLAN AT +0.550M (FFL)

TENTATIVE PANELS/EQUIPMENTS DESCRIPTION:

PANEL NAME	PANEL/EQUIPMENT DESCRIPTION	DIMENSIONS (LXWXH) IN MM
LTG TR–1	LIGHTING TRANSFORMER –1	800X800X1600
LTG TR–2	LIGHTING TRANSFORMER –2	800X800X1600
LTG TR–3	LIGHTING TRANSFORMER –3	800X800X1600
220V DCDB–1	220V DC DISTRIBUTION BOARD–1	2050X700X2475
220V DCDB–2	220V DC DISTRIBUTION BOARD–2	2050X700X2475
50V DCDB–1	50V DC DISTRIBUTION BOARD–1	1200X400X2475
50V DCDB–2	50V DC DISTRIBUTION BOARD–2	1200X400X2475
220 BC–1	220V DC BATTERY CHARGER–1	1400X850X1800
220 BC–2	220V DC BATTERY CHARGER–2	1400X850X1800
ACDB	415V AC DISTRIBUTION BAORD	7450X1000X2475
ACB	AIR CONDITION BOARD	2400X710X2475
MSB	415V MAIN SWITCH BOARD	5650X1000X2475
MLDB	415V AC MAIN LIGHTING PANEL	4100X800X2475
ELDB	EMERGENCY LIGHTING D.B	1200X700X2475
AMF	AUTOMATIC MAIN FAILURE PANEL	–
220V DC LEAD ACID–1	220 V DC LEAD ACID – 1SET	–
220V DC LEAD ACID–2	220 V DC LEAD ACID – 1SET	–
48V BAT–1	48V BATTERY SET–1	689X559X1330
48V BAT–2	48V BATTERY SET–2	689X559X1330
48V BC–1	48V BATTERY CHARGER–1	700X700X1250
48V BC–2	48V BATTERY CHARGER–2	700X700X1250
SAS–1 & 2	SUBSATION AUTOMACHINE SYSTEM	–
FOTE–1,2,&3	FIBRE OPTIC TERMINAL EQUPIMENT	600X600X2200
EPAX	ELECTRONIC PRIVATE AUTOMATIC EXCHANGER	810X560X850
C.O SWH	415V AC 800A CHANGEOVER SWITCH	1000X1000X1575

Note:- Modifications requested at per site Conditions may be done in consultation with, Genl & T&C wing

General Approval
S.E. EEN AEN
CONTRACTS-II, RVPNL, JAIPUR

REFERENCE DRAWING:
ELECTRICAL LAYOUT & SECTION LAYOUT FOR 400/220KV SUBSTATION AT HANUMANGARH – ARIPL/RRVPNL/HANUMANGARH/EL–003

REV.	DISCREPTION	REMARKS	DATE	SIGN.
0	FIRST SUBMISSION	APPROVAL	24.07.26	NSV

CLIENT: RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LIMITED

PROJECT NAME:
CONSTRUCTION OF 400/220KV GSS AT HANUMANGARH AND ASOCIATED BAY WORK AT 1X220kV FFEDER BAY AT 220KV GSS RAWATSAR, 1x132KV FEEDER BAY AT 220KV GSS UDHYOG VIHAR & 1X132KV FEEDER BAY AT 132KV GSS SRIGANGANGAR.

NOA NO: RVPN/SE/CONTRACTS-II/XEN-3(KfW)/NCB-3/BN-9019002415/D. DATED:19.03.2025

CONTRACTOR: Amara Raja Infra Pvt. Limited COO, Hyderabad-500032

	NAMES	SIGN.	DATE
DRAWN.	KHAN		24.07.26
CHKD.	SVN		24.07.26
APPD.	NSV		24.07.26

SCALE 1:160

TITLE: C & R PANEL ARRANGEMENT DRAWING-IN CONTROL ROOM FOR 400/220KV SUBSTATION AT HANUMANGARH

SHEET NO 1/1

DRG. NO: ARIPL-RRVPNL-HANUMANGARH-ELE -CRPA-CR-009

REV.NO. R0

PAPER SIZE:A0

ALL DIMENSIONS ARE IN mm & LEVELS ARE IN m UNLESS OTHERWISE SPECIFIED.