पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)
POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

संदर्भ/Ref : CC-ENGG-CS0PKG19-1001307-SE0061-E.PLAN-LAYOUT **Date :** 28/02/2022

From : Arindam Chakraborty
Chief GM

To : M/s Tata Projects Limited
1st Floor, Tower-1, Okaya Center, B-5
Sector-62
Noida-201301, Uttar Pradesh

Cc : RHQ Shillong

Subject : ARP DMS 04
LOA Ref : ARP DMS 04 dtd 14-12-2020 Dated 14/12/2020

Please find enclosed following drawings/ documents for necessary action at your end.

Vendor Drg. No.	:	TD-200250-TPL-PGCIL-ARP-DMS-04-CHA-EL-1042
Orgn. Drg. No.	:	CS0PKG19-1001307-SE0061-E.PLAN-LAYOUT
Revision No.	:	00
Drg. Title	:	Changlang-Electrical Plan Layout
App. Category	:	CAT-I
Release Date	:	28/02/2022

Scan to verfiy

Comments : CAT-I shall be approved after DoP Concurrence

अनुमोदित श्रेणी/App. Category:

I. फेब्रिकेशन/निर्माण/टाइप टेस्टिंग हेतु जारी।
Approved/released for fabrication/construction.

II. फेब्रिकेशन/निर्माण/टाइप टेस्टिंग हेतु अनुमोदित/जारी बशर्ते दिए गए टिप्पणियाँ एवं आशोधनों की सम्मिलित किया जाये। कृपया रिवाइजड दस्तावेज अनुमोदनार्थ प्रस्तुत करें।
Approved/released for fabrication/ construction subject to incorporation of comments and modification as noted. Revised drawing required for approval.

III. टिप्पणियाँ सम्मिलित करने के उपरांत दस्तावेज को अनुमोदनार्थ प्रस्तुत करें।
To be resubmitted for approval after incorporating the comments.

IV. सूचनार्थ एवं रिकार्ड हेतु।
For information and record.

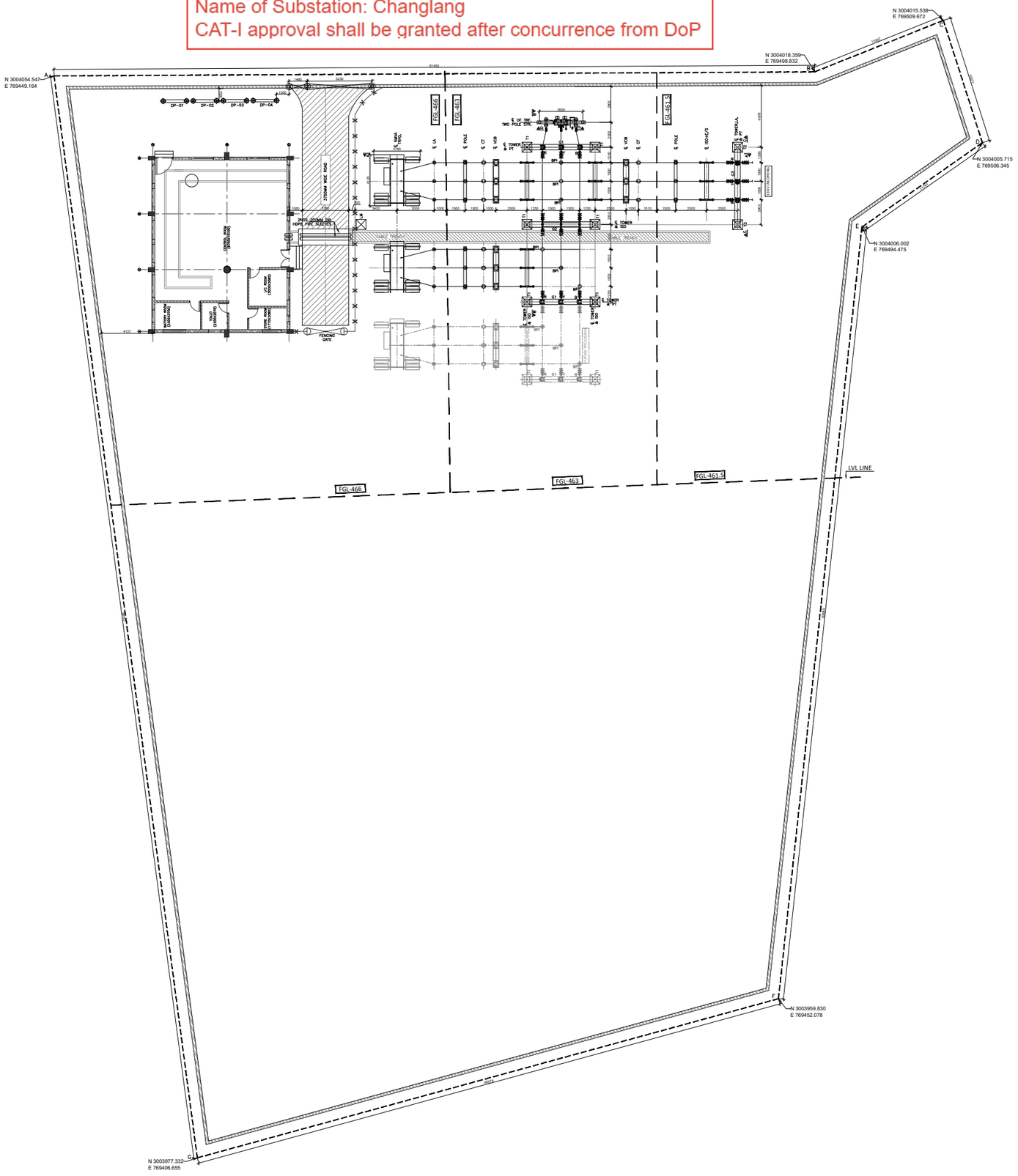
REL-CON निर्माण हेतु जारी।
Released for construction.

नोट/Note:

1. Approval/Comments conveyed herein neither relieve the contractor of his contractual obligations and his responsibilities, weights, quantities, design details assemble fits, performance particulars and conformity of the supplies with the Indian Statutory Laws as may be applicable, nor does it limits the purchaser's right under the contract.
2. The approval conveyed vide this letter does not cover the approval of make for sub-vendor items.

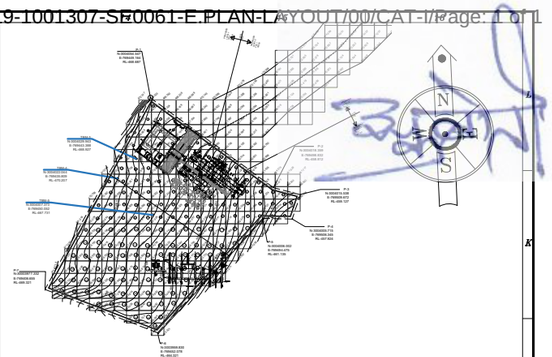
CAT-II

Scope of Work: 1 x 33 kV Line + 2 x 5 MVA Transformers
Name of Substation: Changlang
CAT-I approval shall be granted after concurrence from DoP



MARK NO.	DIMENSION		CO-ORDINATES	
	GRID	LENGTH	NORTHING	EASTING
A	A-B	61.4530	3004054.5470	769449.1640
B	B-C	11.0820	3004018.3590	769498.8320
C	C-D	10.3710	3004015.5380	769509.6720
D	D-E	11.7910	3004005.7150	769506.3450
E	E-F	62.6850	3004006.0020	769494.4750
F	F-G	48.6780	3003959.8300	769452.0780
G	G-A	88.1430	3003977.3320	769406.6550

ALTITUDE CATEGORY = <1000 MTR
FGL OF SUB STATION = 466.0 M, 463.0 & 461.5 M
BUS HEIGHT FROM FGL = 3700MM
PHASE TO PHASE CLEARANCE (MIN) = 1500MM
SECTIONAL CLEARANCE (MIN) = 2800MM



KEY PLAN

LEGENDS:-	
SYMBOLS	DESCRIPTION
	POWER TRANSFORMER
	STATION TRANSFORMER
	ISOLATOR
	LIGHTNING ARRESTER
	VCB
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
	TENSION INSULATOR
	FENCING
	PLOT LINE
	LVL LINE
	BOUNDARY WALL
	11 MTR.POLE STR.
	CABLE TRENCH
	MAIN GATE

33/11 kV BOQ OF MAIN EQUIPMENTS		
DESCRIPTION	UNIT	QTY
30kV , 10KA , 1PH LA	NOS	12
33/√3 kV/110/√3V ,1PH , PT	NOS	09
36kV ,630A , DBCR ISO With E/S	SET	01
36kV ,1 PH , (300-150/1-1A)	NOS	09
36kV ,1250 Amp , VCB	SET	03
36kV ,630A , DBCR ISO W/O E/S	SET	04
5 MVA, 33/11 kV TRF.	NOS	02
33kV,400A AB SWITCH	SET	01
33kV HG FUSE	SET	01
33kV/0.433kV,100kVA STN. TRF	SET	01
DP STRUCTURE FOR 11kV O/G FEEDER	SET	04
33 KV BPI	NOS	06
TOWER TYPE-T1	NOS	06
TOWER TYPE-T2	NOS	01
TOWER TYPE-T3	NOS	01
GANTRY TYPE-G1	NOS	02
GANTRY TYPE-G2	NOS	01
GANTRY TYPE-G3	NOS	01

NOTES :-

1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
2. CABLE TRENCH LAYOUT IN CONTROL ROOM IS INDICATIVE SAME SHALL BE APPROVED SEPARATELY.
3. CABLE TRENCH IN S/YARD IF REQUIRED DUE TO SITE CONSTRAINS MAY BE CHANGED ON DIRECTION OF SIDE IN CHARGE.
4. LOCATION OF LM IS INDICATIVE ONLY. THE SAME SHALL BE FINALIZED DURING DSLP DRAWING.
5. DP LOCATION SHOWN ARE TENTATIVE ONLY.HOWEVER THE EXACT LOCATION SHALL BE FINALIZED IN CONSULATATION WITH RESPECTIVE DISCOM/DEPARTMENT.
6. NO.OF RUNS OF FOR 11KV, 3 x 400sq.mm CABLE TO EVACUATE POWER FOR EACH TRANSFORMER SHALL BE AS FOLLOW:
   FOR TRF.UPTO & INCLUDING 5MVA -1RUN
   FOR TRF.ABOVE 5MVA -2RUN
7. 11KV, 3Cx 120sq.mm CABLE SHALL BE USED TO CONNECT DP STRUCTURE WITH 11KC VCB PANEL AND 11KV OUT-GOING FEEDERS.
8. BURIED 11KV CABLE SHALL BE CROSS CABLE TRENCH USING HUME PIPE LAID BELOW THE TRENCH.HUME PIPE SHALL ALSO BE USED THE CABLE IS CROSSING THE ROAD
9. PROCEDURE FOR BURIED CABLE SHALL BE APPROVED SEPARATELY.
10. ROUTE OF BURIED CABLES SHALL BE FINALISED AT SITE DURING CABLE LAYING .
11. 2 RUNS OF 3.5CX50 Sq.mm LT CABLE SHALL BE USED TO EVACUATE POWER FROM STN. TRAFO.
12. MIN. BENDING RADIUS OF 15D SHALL BE MAINTAINED FOR CABLES.

REV.	DATE	DESCRIPTION	DRAWN BY.	CHKD BY.	APPD BY.
R0	18.02.2022	FIRST SUBMISSION	F.S.	P.K.N.	M.M
LOA NO.		CC-CS/1038-NER/REW-4151/3/G2/NOA-I/9086 Dtd 14.12.2020(ForSupply) CC-CS/1038-NER/REW-4151/3/G2/NOA-II/9087 Dtd 14.12.2020 (For Erection)			
OWNER		DEPARTMENT OF POWER GOVT. OF ARUNACHAL PRADESH			
CLIENT		POWER GRID CORPORATION OF INDIA LIMITED			
CONTRACTOR		TATA PROJECTS LIMITED 1st FLOOR, TOWER-1 OKAYA CENTER, B-5, SECTOR-62 NOIDA-201301, U.P.			
PROJECT.		PACKAGE-ARP-DMS-04 FOR DISTRIBUTION WORKS UNDER COMPRENSIVE SCHEME FOR STRENGTHENING OF TRANSMISSION &DISTRIBUTION SYSTTEM IN NER&SIKKIM-INTRA STATE-ARUNACHAL PRADESH			
DESCRIPTION		ELECTRICAL PLAN LAYOUT 33/11KV CHANGLANG NEW SUB STATION			
SCALE NTS.	SH. NO. 1 OF 2	DRG. No.TD-200250-TPL-PGCIL-ARP-DMS-04-CHA-EL-1042			REV.-00