

**EQUIPMENT RATING AND SYMBOLS**

1. 11KV BUSBAR

2. 3.3KV BUSBAR

3. EQUIPMENT P - REPRESENTS 30KV SWITCH

4. EQUIPMENT P - REPRESENTS 30KV SWITCH

5. EQUIPMENT P - REPRESENTS 30KV SWITCH

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95. EQUIPMENT P - REPRESENTS 30KV SWITCH

96. EQUIPMENT P - REPRESENTS 30KV SWITCH

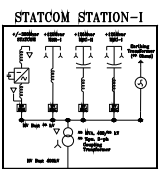
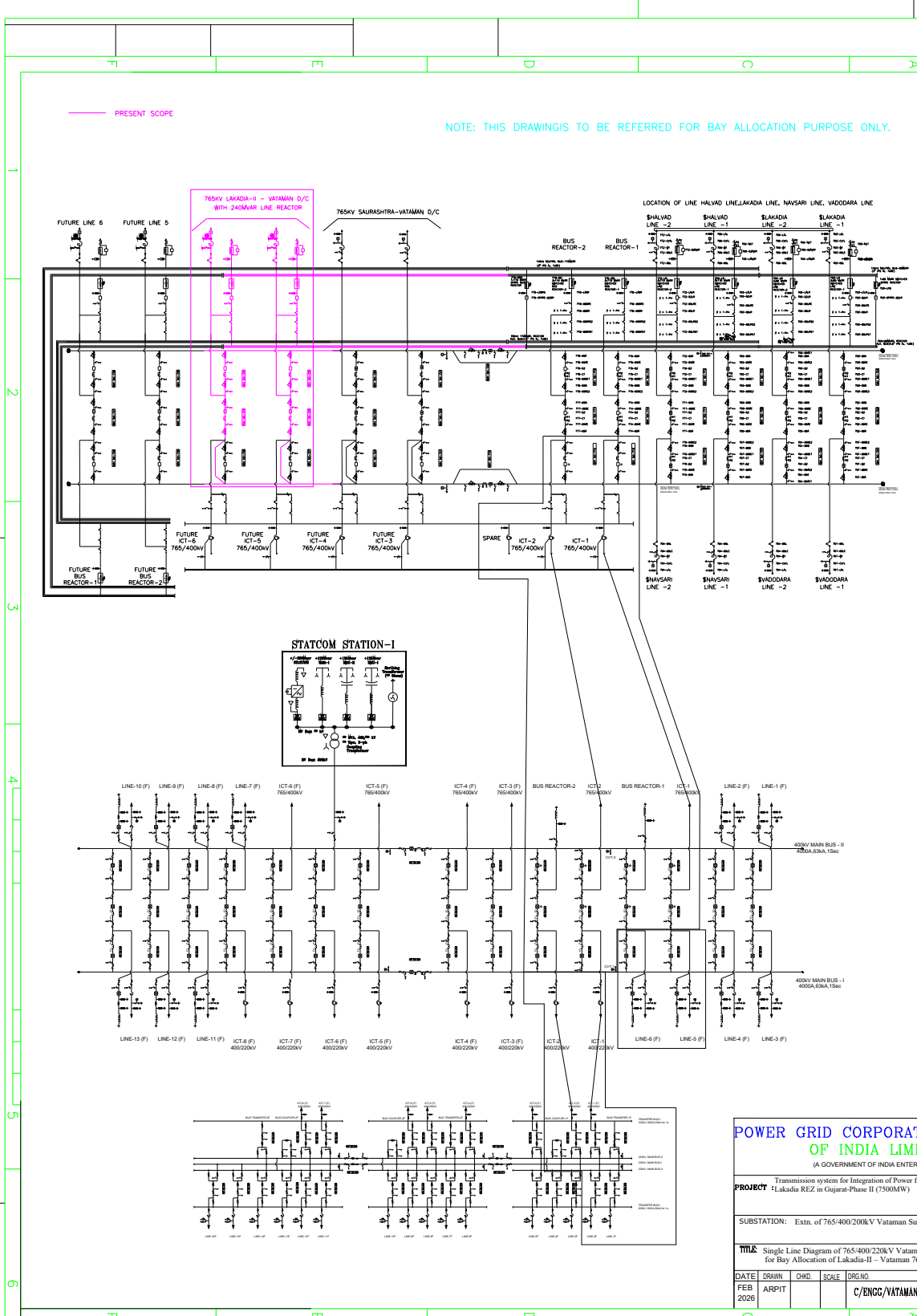
97. EQUIPMENT P - REPRESENTS 30KV SWITCH

98. EQUIPMENT P - REPRESENTS 30KV SWITCH

99. EQUIPMENT P - REPRESENTS 30KV SWITCH

100. EQUIPMENT P - REPRESENTS 30KV SWITCH





**POWER GRID CORPORATION OF INDIA LIMITED**  
 (A GOVERNMENT OF INDIA ENTERPRISE)

Transmission system for Integration of Power from RE Projects in  
**PROJECT** Lakadia REz in Gujarat-Phase II (7500MW)

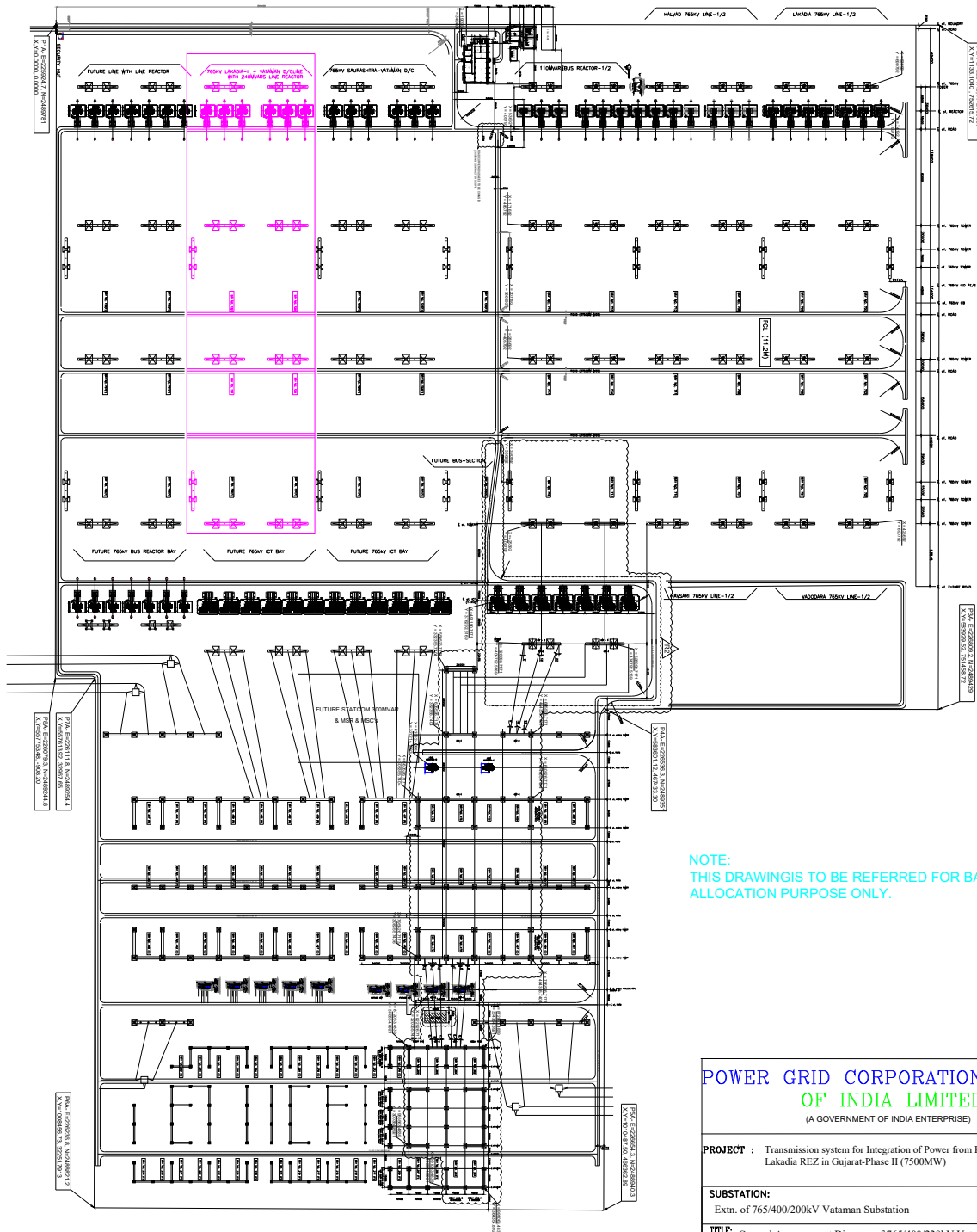
**SUBSTATION:** Extn. of 765/400/220kV Vataman Substation

**TTM:** Single Line Diagram of 765/400/220kV Vataman Substation for Bay Allocation of Lakadia-II - Vataman 765kV D/c line

DATE	DRAWN	CHKD	SCALE	DRG.NO.	REV
FEB 2026	ARPIT			C/ENGG/VATAMAN-SS-EXTN4/SLD	0

FIRST ANGLE PROJECTION ( ALL DIMENSIONS ARE IN MM )

PRESENT SCOPE



NOTE:  
THIS DRAWING IS TO BE REFERRED FOR BAY  
ALLOCATION PURPOSE ONLY.

**POWER GRID CORPORATION  
OF INDIA LIMITED**  
(A GOVERNMENT OF INDIA ENTERPRISE)



**PROJECT :** Transmission system for Integration of Power from RE Projects in Lakadia REZ in Gujarat-Phase II (7500MW)

**SUBSTATION:**  
Extn. of 765/400/200kV Vataman Substation

**TITLE:** General Arrangement Diagram of 765/400/220kV Vataman Substation for Bay Allocation of Lakadia-II - Vataman 765kV D/c line

DATE	DRAWN	CHKD.	SCALE	DRG. NO.	REV
FEB 2026	ARPIT			C/ENGG/VATAMAN-SS-EXTN4/GA	0

संदर्भ/Ref : CC-ENGG-TB202318-1002026-SS3500-EMAT-LAYOUT

Date : 31/10/2025

**From :** Atul Mathur  
DGM

**To :** Bharat Heavy Electricals Limited  
Plot No.-7, Sector-142 Noida 201305  
201305

**Cc :** CGM (Projects), RHQ, WR-II

**Subject :** 765kV Extn Pkg SS-15T for (a) Establishment of 765kV Switching station near Vataman (b)Extn of 765kV Halvad S/s for termination of 765kV D/c Halvad -Vataman TL under Transmission system for evacuation of additional 7GW RE power from Khavda RE park under Phase -III part B

**LOA Ref :** CC/T/W-AIS/DOM/A04/23/05816/NOA-1 & 2/24-103427/01 & 02 Dated 12/03/2024

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

**Vendor Drg. No. :**

**Orgn. Drg. No. :** TB202318-1002026-SS3500-EMAT-LAYOUT

**Revision No. :** 02

**Drg. Title :** VATAMAN SWITCHING S/S- EARTHMAT LAYOUT DRGS

**App. Category :** CAT-I

**Release Date :** 31/10/2025



Scan to verify

**Comments :** Generally in order

**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 रिवाइज्ड 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.**
- CATREL/ निर्माण हेतु जारी।  
REL-CON **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.

COMMENT RESOLUTION SHEET For Rev 01					
DRG / DOC TITLE		VATAMAN SWITCHING S/S- EARTHMAT LAYOUT DRGS			
POWERGRID DRG / DOC NO.		TB202318-1002026-SS3500-EMAT-LAYOUT			
BHEL DRG/ DOC NO.		TB202318-1002026-SS3500-EMAT-LAYOUT			
Revision		0			
Reviewed By		POWERGRID			
POWERGRID COMMENTS REF:		CC-ENGG-TB202318-1002026-SS3500-EMAT-LAYOUT, DTD. 18.08.2025			
765/400/220kV VATAMAN SUBSTATION					
SR. No.	Page No. / Clause No. / Sheet No.	POWERGRID Observations / Comments	BHEL Reply	POWERGRID Observations / Comments	BHEL Reply
1	Sheet 1 of 1	Earthing of all reactor BPI to be shown	Confirmed & incorporated in the revised document	-	-
2	Sheet 1 of 1	Show earthing of ladder CB	Refer Note SL. No. 4 & 5 that all metallci structure shall be earthed as per Powergrid standard drawing for earthing. Hence the same is not being shown here as the drawing will not be readable	-	-
3	Sheet 1 of 1	Show tower earthing for Main bus tower between Bay 704 & 707 as marked	Confirmed & incorporated in the revised document	-	-
4	Sheet 1 of 1	Revise the quantities as per comments	Confirmed & incorporated in the revised document	-	-
5	Sheet 1 of 1	Aux mat quantity shall not be part of main earthmat qty	Confirmed & incorporated in the revised document	-	-
6	Sheet 1 of 1	Include Notes as marked	Confirmed & incorporated in the revised document	-	-
7	Sheet 1 of 1	-	-	Mark coordinate of the corner	Incorporated in the revised drawing
8	Sheet 1 of 1	-	-	Show typical spacing of earthmat 24m in the drawing	Incorporated in the revised drawing
9	Sheet 1 of 1	-	-	Add Note for the following: Location of Auxiliary mat of Isolator is indicative only. Site must verify the orientation of MB boxes of isolator & ensure laying of Aux earthmat below MB box of Isolator	Refer Note SL. No. 7, the same is already mentioned
10	Sheet 1 of 1	-	-	LOA Qty shall be corrected to 18000 Mtr	Incorporated in the revised drawing

