

संदर्भ/Ref : CC-ENGG-TB202310-1002052-SC1405-400KV-OD-CABLE-TR-LAY

Date : 29/05/2024

From : S J Lahiri  
Chief GM

To : HYOSUNG T and D INDIA PVT LTD  
11 Khed City Village Nimgaon Pune 410505  
410505

Cc :

Subject : Substation extension package SS112

LOA Ref : CC/NT/W-GIS/DOM/A06/23/03905/NOA-3/23-109068/03 & NOA-4/23-109068/04 Dated 24/11/2023

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

Vendor Drg. No. : HI-23D-4074A-EPC-B-07  
Orgn. Drg. No. : TB202310-1002052-SC1405-400KV-OD-CABLE-TR-LAY  
Revision No. : 01  
Drg. Title : JEYPORE-400KV OUTDOOR CABLE TRENCH LAYOUT  
App. Category : CAT-I  
Release Date : 29/05/2024



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.



## JEYPORE-400KV OUTDOOR CABLE TRENCH LAYOUT

**400kV GIS Substation Extension Package SS-112, for Extension of 400kV Jeypore(POWERGRID) substation under transmission scheme for inter-regional ER-WR interconnection scheme.**

REV	DESCRIPTION	DATE	PREPARED BY	CHECKED BY	APPROVED BY
1	Revised as per PGCIL Comments	15-05-2024	N.RN	BP/GS	DM
0	FIRST ISSUE	16-04-2024	N.RN	BP/GS	DM
<b>OWNER:</b>	 <b>POWER GRID CORPORATION LTD</b>				
<b>CONTRACTOR:</b>	 <b>HYOSUNG T&amp;D INDIA Pvt. Ltd.</b>				
<b>PROJECT:</b>	400kV GIS Substation Extension Package SS-112, for Extension of 400kV jeypore(POWERGRID) substation under transmission scheme for inter-regional ER-WR interconnection scheme.				
<b>TITLE:</b>	JEYPORE-400KV OUTDOOR CABLE TRENCH LAYOUT				
<b>DOCUMENT NO</b>				<b>REVISION</b>	
HI-23D-4074A-EPC-B-07				1	



DOC. No. :HI-23D-4074A-EPC-B-07\_Compliance Sheet\_R0

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• CUSTOMER : POWERGRID CORPORATION OF INDIA LIMITED

• PROJECT : 400kV GIS Substation Extension Package SS-112, for Extension of 400kV jeypore(POWERGRID) substation under transmission scheme for inter-regional ER-WR interconnection scheme.

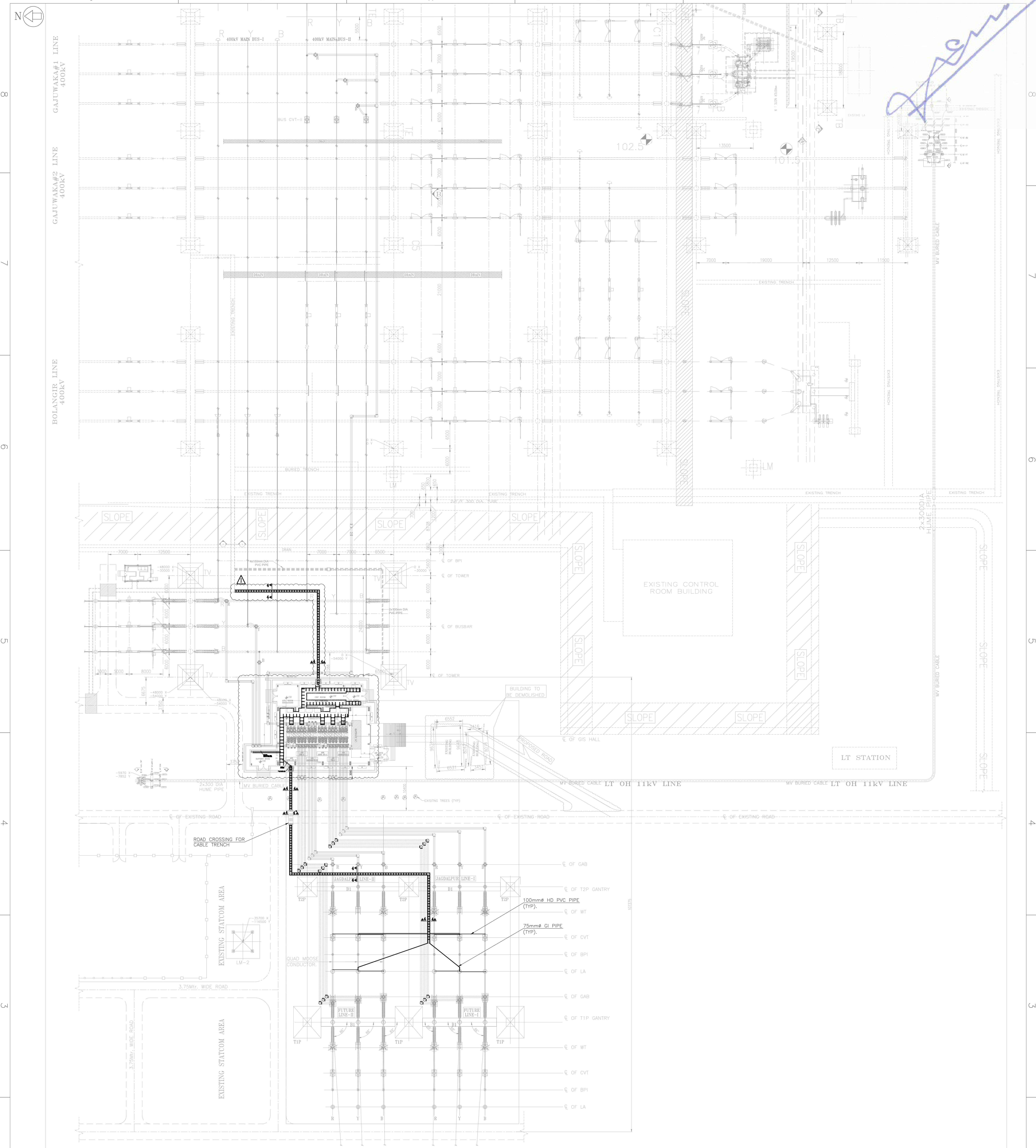
**COMPLIANCE SHEET  
OF  
JEYPORE  
400KV OUTDOOR CABLE TRENCH LAYOUT**

*15 MAY 2024*

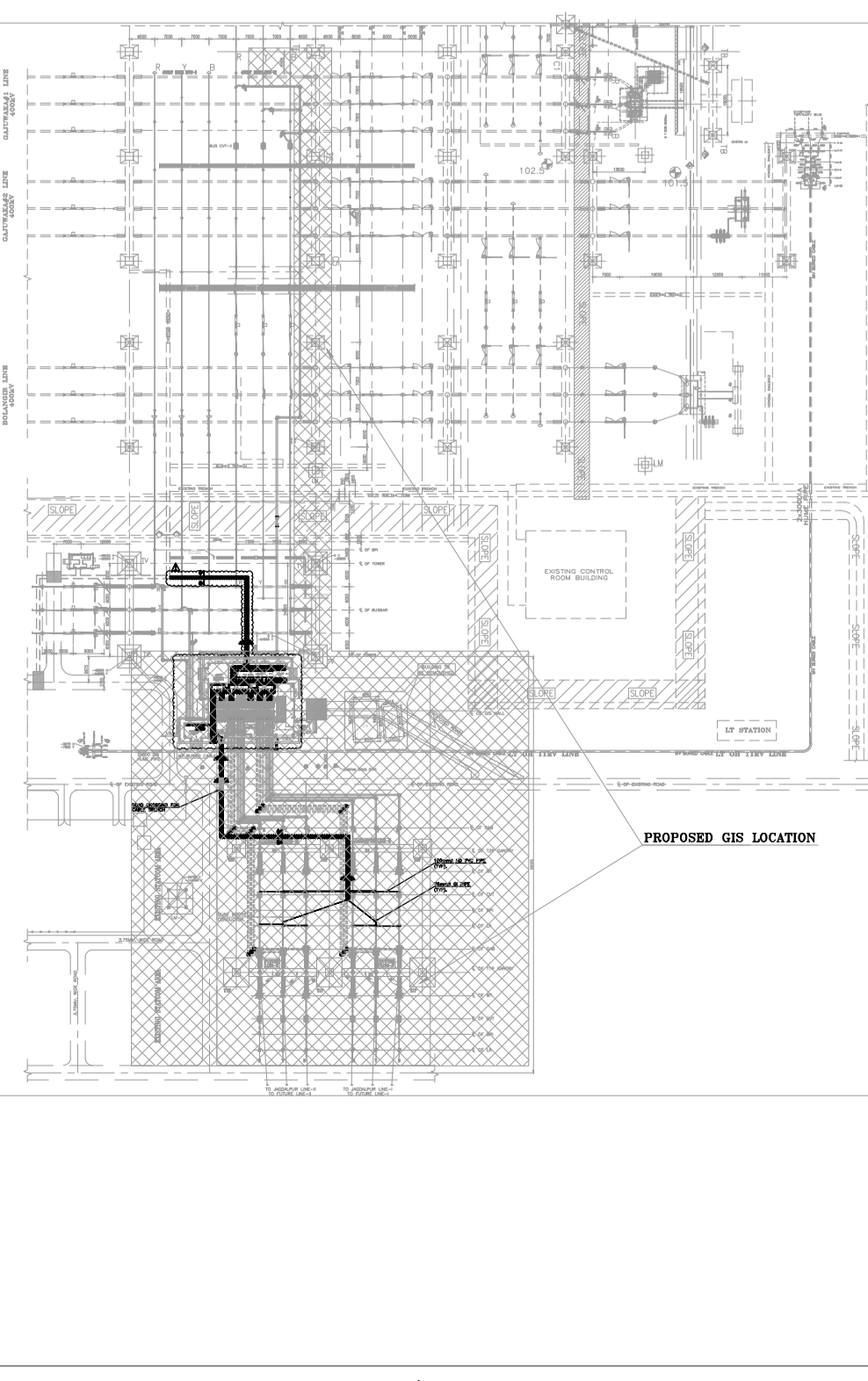
 **HYOSUNG T&D INDIA Pvt. Ltd.**

<i>S.No</i>	<i>Reference Drawing</i>	<i>POWERGRID Approval Document</i>	<i>POWERGRID Comments_01/05/24</i>	<i>HYOSUNG Response_15/05/2024</i>
1	JEYPORE-400KV OUTDOOR CABLE TRENCH LAYOUT	CC-ENGG-TB202310-1002052- SC1405-400KV-OD-CABLE-TR- LAY	How provision for further connection of POWER cable to ACDB & GIS CT's to Bus Bar Protection Panel may be shown.	We have submitted an indoor cable trench layout for indoor cable connection (Ref DWG no. HI-23D-4074A-EPC-B-15), However we have shown the indoor cable trench in the layout..

This drawing is the property of HYOSUNG T&D INDIA PVT. LTD. and must not be passed on to any person or body not authorized by us to receive it nor be copied or otherwise made use either in full or in part by such person or body without our prior permission in writing.



**KEY PLAN:-**



**NOTES:-**

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. THE CABLE TRENCH ROUTES SHALL BE MODIFIED/RENOTED, IF FOULING WITH TOWER/EQUIPMENT FOUNDATION AS PER SITE CONDITION.
3. CABLEING WILL BE DONE AS DETAILED IN TECHNICAL SPECIFICATION.
4. SEPARATE PVC PIPE SHALL BE LAID FOR POWER & CONTROL CABLES.
5. PIPE FOR CABLEING SHALL BE LOCATED CLEARING THE LOCATION OF AUX - EARTH MAT PLACED UNDER THE MON/COM BOXES.
6. FOR CABLE TRENCH RELATED DETAILS REFER POCIL STANDERD. (DRG.NO.-C/ENG/STD/2016/RCT/01).
7. SLOPE OF 1:1000 ALONG THE RUN OF TRENCH & 1:250 ACROSS THE SECTION OF TRENCH WILL BE PROVIDED.
8. POWER CABLES WILL BE LAID IN SINGLE LAYER ON TOP TIRE AND CONTROL CABLES WILL BE LAID MULTILAYER BOTTOM TIER.
9. 60% VOID WILL BE MAINTAINED IN EACH PIPE. 60% CRITERIA IS NOT MET.
10. EARTH FLAT IN CABLE TRENCH (50mmx6mmx MS) WILL RUN ALONG THE TOP TIRE OF EACH CABLE TRENCH SECTION AND EARTHED EVERY 30M AT BOTH ENDS.
11. AFTER LAYING THE CABLE THE ENDS OF CONDUITS SHALL BE SEALED TO PREVENT INGRESS OF WATER INSIDE THE CONDUITS.
12. LIFTING EYES ARE TO BE PROVIDED FOR TRENCH COVER AT APPROPRIATE LOCATION.
13. BRICK WALL SHALL BE PROVIDED WHEREVER MANY TRENCH COVERS AT APPROPRIATE LOCATION.
14. PVC PIPE SHALL BE BURIED 250MM BELOW FEL.
15. CABLE ROUTING LAYOUT INSIDE G/S BUILDING WILL BE SUBMITTED SEPARATELY.
16. FOR DETAIL OF ROAD CROSSING OF CABLE TRENCH - POCIL STANDERD DRAWING. (DRG.NO.-C/ENG/STD/2016/RCT/01) MAY BE REFERRED TO.
17. TRANSITION BETWEEN INDOOR AND OUT DOOR CABLE TRENCH IS SHOWN TENTATIVELY THIS WILL BE FURTHER DEVELOPED BY CABLE SEALING VENDOR.

15.05.24	REVISED AS PER POCIL COMMENTS AND UPDATED AS PER REVISED DGA	N.RN	B.P	G.S	D.M	
16.04.24	FOR APPROVAL	N.RN	B.P	G.S	D.M	
REV. No	REVISED DATE	DESCRIPTION	DRAWN	DESIGNED	CHECKED	APPROVED

**CLIENT :**  
**POWER GRID CORPORATION OF INDIA LIMITED.**

**SUPPLIER / CONTRACTOR :**  
**HYOSUNG T&D INDIA Pvt. Ltd.**

**PROJECT :** 400KV GIS SUBSTATION EXTENSION PACKAGE SS-112 FOR EXTENSION OF 400KV JEYPORE(POWERGRID) SUBSTATION UNDER TRANSMISSION SCHEME FOR INTER-REGIONAL ER-WR INTERCONNECTION.

**PACKAGE :** 400KV GIS SUBSTATION EXTENSION PACKAGE SS-112.

<b>JOB No. :</b>	<b>TITLE :</b>	<b>SCALE :</b>
DRWN N.RN N.RN 16.04.24	JEYPORE - 400KV - OUTDOOR CABLE TRENCH LAYOUT.	1:300
DSGN B.P B.P 16.04.24		PROJECTION
CHKD G.S G.S 16.04.24		
APPD D.M D.M 16.04.24		SIZE AO

**DRG. No.** H I - 2 3 D - 4 0 7 4 A - E P C - 0 7  
 SHEET 1 OF 1

RELEASED FOR  PRELIMINARY  TENDER  INFORMATION  APPROVAL  CONSTRUCTION