

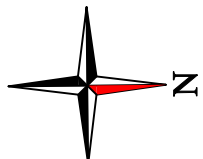
**Amendment No. 1 dated 10.07.2023**

to

**RFP documents for selection of Transmission Service Provider through tariff based competitive bidding process to establish transmission system for  
“Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-1) (Bikaner Complex): PART- B”**

S. No.	Existing Provisions	Revised Provisions																																								
1.	<p><b>RFP, Specific Technical Requirements for Substation</b></p> <p><b>Clause No. B.5.0 EXTENSION OF EXISTING SUBSTATION</b></p> <p>The following drawings/details of existing substation is attached with the RFP documents for further engineering by the bidder</p> <table><tr><th>Sl. No.</th><th>Drawing Title</th><th>Drawing No./Details</th><th>Rev. No.</th></tr><tr><td>B.</td><td colspan="3">400kV Kotputli -II S/s</td></tr><tr><td>1.0</td><td>Single Line Diagram</td><td></td><td></td></tr><tr><td>2.0</td><td>General Arrangement</td><td></td><td></td></tr><tr><td>3.0</td><td>.....</td><td></td><td></td></tr></table>	Sl. No.	Drawing Title	Drawing No./Details	Rev. No.	B.	400kV Kotputli -II S/s			1.0	Single Line Diagram			2.0	General Arrangement			3.0	.....			<p><b>RFP, Specific Technical Requirements for Substation</b></p> <p><b>Clause No. B.5.0 EXTENSION OF EXISTING SUBSTATION</b></p> <p>The following drawings/details of existing substation is attached with the RFP documents for further engineering by the bidder</p> <table><tr><th>Sl. No.</th><th>Drawing Title</th><th>Drawing No./Details</th><th>Rev. No.</th></tr><tr><td>B.</td><td colspan="3">400kV Kotputli -II S/s</td></tr><tr><td>1.0</td><td>Single Line Diagram</td><td>C/ENGG-SS/NR-I/RTM/KOTPUTLI/EXT./SLD/01</td><td></td></tr><tr><td>2.0</td><td>General Arrangement</td><td>/ENGG-SS/NR-I/RTM/KOTPUTLI/EXT./GA/01</td><td></td></tr><tr><td>3.0</td><td>.....</td><td>.....</td><td></td></tr></table>	Sl. No.	Drawing Title	Drawing No./Details	Rev. No.	B.	400kV Kotputli -II S/s			1.0	Single Line Diagram	C/ENGG-SS/NR-I/RTM/KOTPUTLI/EXT./SLD/01		2.0	General Arrangement	/ENGG-SS/NR-I/RTM/KOTPUTLI/EXT./GA/01		3.0	.....	.....	
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2.	<p><b>B.3.1 AC &amp; DC power supplies</b></p> <p>For LT Supply at each new Substation, two (2) nos. of LT Transformers (minimum 800 kVA for substations with highest voltage rating as 765 kV) shall be provided out of which one shall be fed from two independent sources.</p>	<p><b>B.3.1 AC &amp; DC power supplies</b></p> <p>For LT Supply at each new Substation, two (2) nos. of auxiliary Transformers (minimum 800kVA for substations with highest voltage rating as 765kV) shall be provided from two independent sources as per the CEA (Technical Standards for Connectivity to the Grid) Regulations, 2007</p>																																								
3.	<p><b>All the relevant clauses of RFP, TSA and SPA</b></p> <p>“SPV [which is under incorporation]”</p>	<p><b>All the relevant clauses of RFP, TSA and SPA</b></p> <p>“SPV [which is under incorporation]” in the subject RFP, TSA and SPA may be read as <b>“NEEMRANA II KOTPUTLI TRANSMISSION LIMITED”</b></p>																																								

S. No.	Existing Provisions	Revised Provisions
4.	<p><b>Clause No. 1.6.1.1 of RFP</b></p> <p>Establishment, operation and maintenance of the Project on build, own, operate and transfer basis and completion of all the activities for the Project, including survey, detailed project report formulation, arranging finance, project management, necessary Consents, Clearances and Permits (way leave, environment &amp; forest, civil aviation, railway/ road/river/canal/power crossing/PTCC, etc.), land compensation, design, engineering, equipment, material, construction, erection, testing &amp; commissioning.</p> <p>Further, the actual location of substations, switching stations or HVDC terminal or inverter stations in the scope of TSP shall not be beyond 3 Km radius of the location proposed by the BPC in the survey report.</p>	<p><b>Clause No. 1.6.1.1 of RFP</b></p> <p>Establishment, operation and maintenance of the Project on build, own, operate and transfer basis and completion of all the activities for the Project, including survey, detailed project report formulation, arranging finance, project management, necessary Consents, Clearances and Permits (way leave, environment &amp; forest, civil aviation, railway/ road/river/canal/power crossing/PTCC, etc.), land compensation, design, engineering, equipment, material, construction, erection, testing &amp; commissioning.</p> <p><b>Further, the actual location of Greenfield substations (Switching Stations or HVDC Terminal or Inverter Stations) for a generation pooling substation and for load serving substations in the scope of TSP shall not be beyond 3 Km radius of the location proposed by the BPC in the survey report. However, actual location of any Greenfield intermediate Substations in the scope of TSP shall not be beyond 10 Km radius of the location proposed by the BPC in the Survey Report.</b></p>
5.	<p><b>Para 5.1.4 (a) of TSA</b></p> <p>The TSP shall be responsible for:</p> <p>(a) acquisition of land for location specific substations, switching stations or HVDC terminal or inverter stations. Also, the actual location of substations, switching stations or HVDC terminal or inverter stations shall not be beyond 3 Km radius of the location proposed by the BPC in the survey report;</p>	<p><b>Para 5.1.4 (a) of TSA</b></p> <p>The TSP shall be responsible for:</p> <p>(a) acquisition of land for location specific substations, switching stations or HVDC terminal or inverter stations. Also, <b>the actual location of Greenfield substations (Switching Stations or HVDC Terminal or Inverter Stations) for a generation pooling substation and for load serving substations in the scope of TSP shall not be beyond 3 Km radius of the location proposed by the BPC in the survey report. However, actual location of any Greenfield intermediate Substations in the scope of TSP shall not be beyond 10 Km radius of the location proposed by the BPC in the Survey Report.</b></p>



LEGEND:-

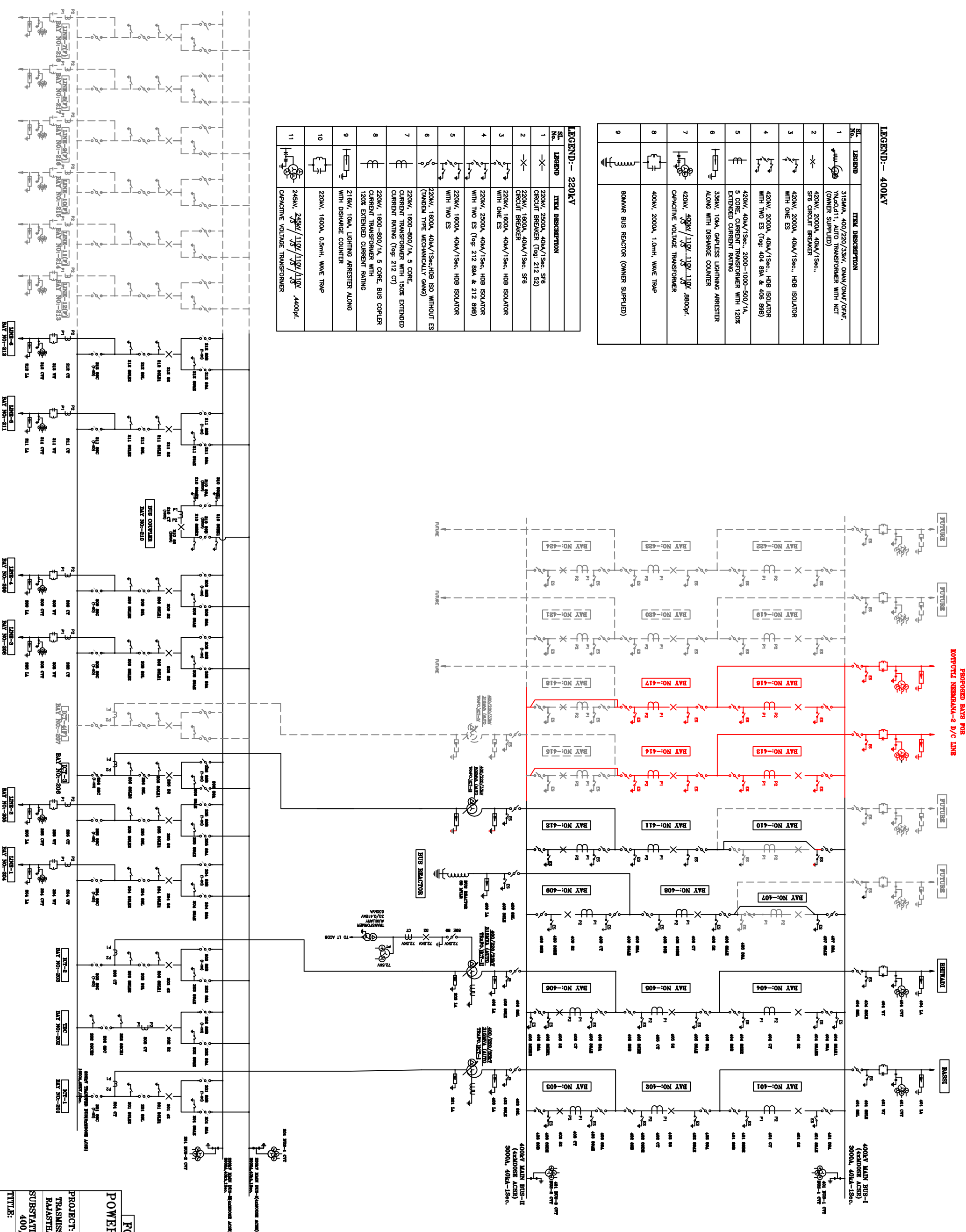
PRESENT SCOPE OF WORK

EXISTING SCOPE

FUTURE

Sl. No.	LEGEND	ITEM DESCRIPTION
1		315MVA, 400/220/132kV OMBT (OWNER SUPPLIED)
2		420kV, 2000A, 40kA/15sec. SF6 CIRCUIT BREAKER
3		420kV, 2000A, 40kA/15sec. HDB ISOLATOR WITH ONE ES
4		420kV, 2000A, 40kA/15sec. HDB ISOLATOR WITH TWO ES (Teg: 404 89A & 408 89B)
5		420kV, 40kA/15sec., 2000-1000-500/1A, 5 CORE, CURRENT TRANSFORMER WITH 120% EXTENDED CURRENT RATING
6		33kV, 10kA, GAPLESS LIGHTNING ARRESTER ALONG WITH DISCHARGE COUNTER
7		420kV, $\frac{420kV}{\sqrt{3}} / \frac{110kV}{\sqrt{3}} / \frac{110kV}{\sqrt{3}}$ , 8800pF, CAPACITIVE VOLTAGE TRANSFORMER
8		400kV, 2000A, 1.0mH, WAVE TRAP
9		80MVA BUS REACTOR (OWNER SUPPLIED)

Sl. No.	LEGEND	ITEM DESCRIPTION
1		220kV, 2500A, 40kA/15sec. SF6 CIRCUIT BREAKER (Teg: 212 52)
2		220kV, 1800A, 40kA/15sec. SF6 CIRCUIT BREAKER
3		220kV, 1800A, 40kA/15sec. HDB ISOLATOR WITH ONE ES
4		220kV, 2500A, 40kA/15sec. HDB ISOLATOR WITH TWO ES (Teg: 212 89A & 212 89B)
5		220kV, 1800A, 40kA/15sec. HDB ISOLATOR WITH TWO ES
6		220kV, 1800A, 40kA/15sec. HDB ISO WITHOUT ES (TANGED TYPE MECHANICALLY GANGED)
7		220kV, 1800-800/1A, 5 CORE, CURRENT TRANSFORMER WITH 150% EXTENDED CURRENT RATING (Teg: 212 CT)
8		220kV, 1800-800/1A, 5 CORE, BUS COPLER CURRENT TRANSFORMER WITH 120% EXTENDED CURRENT RATING
9		218kV, 10kA, LIGHTNING ARRESTER ALONG WITH DISCHARGE COUNTER
10		220kV, 1800A, 0.5mH, WAVE TRAP
11		245kV, $\frac{245kV}{\sqrt{3}} / \frac{110kV}{\sqrt{3}} / \frac{110kV}{\sqrt{3}}$ , 4400pF, CAPACITIVE VOLTAGE TRANSFORMER



FOR TENDER PURPOSE

POWER GRID CORPORATION OF INDIA LIMITED

(A Government of India Enterprise)

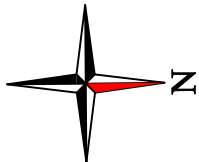
PROJECT:  
TRANSMISSION SCHEME FOR EVACUATION OF POWER FROM RAJASTHAN (REZ) (200kV) UNDER PHASE-IV PART-I.

SUBSTATION  
400/220KV KOTPUTTI SUBSTATION(EXTN.)

TITLE:  
SINGLE LINE DIAGRAM

DATE  
2022

DWG  
C/ENG-SS/NR-1/RTM/KOTPUTTI/EXTN./SLD/01



395318

13000

433111

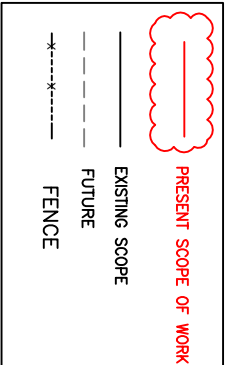
400302

483722

7000

NOTE:  
1. ALL DIMENSIONS ARE IN MM.

LEGEND:-



FOR TENDER PURPOSE  
**POWER GRID CORPORATION  
OF INDIA LIMITED**  
(A Government of India Enterprise)



PROJECT:  
TRANSMISSION SCHEME FOR EVACUATION OF POWER FROM  
RAJASTHAN (REZ) (200KV) UNDER PHASE-IV PART-I.

SUBSTATION  
400/220KV KOTPUTLI SUBSTATION(EXTN.)

TITLE:  
GENERAL ARRANGEMENT DRAWING

DATE: NOV 2023  
DRAWING NO.  
C/ENGG-SS/NR-1/RTM/KOTPUTLI/EXTN./GA/01