

Power Grid Company of Bangladesh Limited (PGCB)
(An enterprise of Bangladesh Power Development Board)

**Invitation for
Expression of Interest (EOI)**

For

**Consulting Services for Design and Supervision of
Dhaka-Chittagong Main Power Grid
Strengthening Project**

February 2015

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Dhaka-Chittagong Main Power Grid Strengthening Project

1. The Power Grid Company of Bangladesh Limited (PGCB) is an enterprise of Bangladesh Power Development Board under Power Division, Ministry of Power, Energy and Mineral Resources (MoPEMR), formed under "Bangladesh Companies Act 1994". GoB has currently applied for Japanese ODA loan for the cost of Dhaka-Chittagong Main Power Grid Strengthening Project (the Project) including the cost of this consulting service.
2. This EOI invites international consultants and Joint Ventures (JV) with inputs from both international and local specialists who are interested to render the services as the Consultant under the Project;
3. The scope of the consulting services is as follows;
 - (a) Preparation of basic design and design reports
 - (b) Preparation of bid documents
 - (c) Bid evaluation and facilitation of pre-contract discussion for EPC contracts
 - (d) Approval of the detailed designs and drawings
 - (e) Construction supervision including testing, commissioning and final acceptance
 - (f) Facilitation of environmental and social monitoring
 - (g) Technical knowledge transfer to PGCB engineers
 - (h) Documentation of the project related documents such as project progress reports and project completion report
4. Applicants must submit the EOI with furnishing the following information including supporting documents and the formats [Annexure].
 - 4.1 Consultant's Information
 - (a) Consultant's Registration Certificate
 - (b) Consultant's profile i.e. management, no. of employees, areas of specialization, track record including list of all consulting services provided within last fifteen years, etc.
 - (c) Summary of employment status regarding full-time experts working in a consultant firm for more than three years as per Annexure 2.
 - (d) Summary of financial status as per Annexure 3 supported by audited financial statements (balance sheet, profit & loss account, and cash flow statement) and annual reports for the last five years
 - (e) History of litigation in courts or any arbitration proceedings (if any)



- (f) In case of JV, JV agreement or Memorandum of Understanding among the partners.

4.2 Consultant's Experience

List of the technical or engineering consulting services for the following specific experiences with information as per Annexure 1.

- (a) Technical or engineering consulting services rendered in power transmission line and substation projects in last fifteen years
- (b) Consulting services for any sector's projects rendered in SAARC + ASEAN countries(including Bangladesh) in last fifteen years
- (c) Technical or engineering services for power transmission line projects funded by the development partners in last fifteen years

5. The EOI as well as the supporting documents (Forms/Annexure) attached shall be written in English. Documents originally written in other than English shall be translated into English and notarized and to be attached to the original. In case of JV, the documents/information about working experience requested in Para 4 above for each member consultant is required.
6. A consultant shall be solely, and in case of JV all the member consultants shall be jointly and severally, liable for the entire performance of the Contract. The consultants shall remain responsible for the performance of the sub- consultant(s).
7. Forms of submission are posted on the PGCB website (<http://www.pgcb.org.bd/>) from 18 February 2015. Interested Consultants may download the document from above mentioned website and convey PGCB of their interest in this EOI. Consultants shall submit one (1) original and three (3) copies of the EOI in sealed envelopes marked with **"EOI for Consulting Service for Dhaka-Chittagong Main Power Grid Strengthening Project"** with soft copy in DVD or CD-R. Proposals along with documentary evidences to support the required criteria should be sent by 16 March 2015 on or before 04.00 PM (BST). Any application submitted later than the specified date and time or submitted through email/fax/mail will not be entertained.

Company Secretary, PGCB

Address: Power Grid Company of Bangladesh Limited

IEB New Building, 4th Floor

8/A, Ramna, Dhaka-1000

Telephone: +880-2-9553663, 9550514, 9560064, 9558054, Facsimile: +880-2-9582382, 9566555

8. Interested applicants may communicate with the Office of Project Director, PGCB on office days during 10:00 to 12:00 hours BST or through e-mail for further information up to 10 days prior to the submission date of EOI.
9. PGCB will not be responsible for any costs or expenses incurred by an applicant in



connection with the preparation or delivery of EOI.

10. PGCB reserves the right to accept/reject one or all EOIs or stop the selection process at any stage, at its sole discretion without assigning any reasons and shall bear no liability whatsoever consequent upon such a decision.
11. EOIs submitted by the applicants will be screened and evaluated on the basis of the marks obtained as per the criteria (Attachment 2) for preparation of the shortlist. Only the short-listed consultants will be invited to submit proposals by PGCB. Consultants will be selected through Quality Based Selection (QBS), Should the application for the loan is accepted by Government of Japan and JICA, the latest edition of "Guidelines for the Employment of Consultants" and "Standard Request for Proposals" of Japanese ODA Loans shall be followed.



12/2/2015

Company Secretary

Power Grid Company of Bangladesh Limited



Form:

1. Expression of Interest

Annexure:

1. Experience of Firm/JV for Related Consulting Service.
2. Experience and Qualification of the Expert Personnel.
3. Summary of Financial Status of Firm / Lead Member of JV.

Attachment:

1. Short Description of the Projects against Consulting Services on Detailed Design and supervision of "Dhaka-Chittagong Main Power Grid Strengthening Project".
2. Evaluation Criteria for Short Listing of Consultants.
3. Drawings of the Project Scope and Preliminary SS Designs



Expression of Interest

[Note: Letterhead paper of the Applicant (in case of JV, the lead partner), including full postal address, telephone number and fax number]

Date: _____

To:

Company Secretary,

Power Grid Company of Bangladesh Limited (PGCB)

IEB New Building, 4th Floor, 8/A, Ramna, Dhaka 1000, Bangladesh

Dear Project Director,

1. Being duly authorized to represent and act on behalf of _____ (Applicant), and having reviewed and fully understood all of the information provided in the Invitation for Expression of Interest (EOI), the undersigned hereby expresses its interest in and applies to be short-listed by PGCB as a submitter of proposal for the consulting services for Dhaka-Chittagong Main Power Grid Strengthening Project.
2. Attached to this EOI are copies of original documents providing;
 - (a) the Applicant's information: legal status, financial status, and human resource status, etc., and
 - (b) the Applicant's experiences related to the assignment of the consulting services.
3. The Project Director, Dhaka-Chittagong Main Power Grid Strengthening Project, PGCB (PD) is hereby authorized to conduct any inquiries or investigations to verify the statements, documents and information submitted in connection with this EOI, and to seek clarification regarding any financial and technical aspects. This EOI will also serve as authorization to any individual or authorized representative of any institution referred to in the supporting information, to provide such information deemed necessary and as requested by PGCB to verify statements.
4. The PD may contact the following persons for further information.

Name: _____

Position: _____

Consulting Firm: _____

Contact Detail: _____

5. This EOI is made with the full understanding that:



- (a) all information submitted in this EOI for qualification and selection for short-listing will be subject to verification at the time of submitting proposal by short-listed applicants;
 - (b) PGCB reserves the right to reject or accept any application, cancel the qualification and selection for short-listing process at any stage, and reject all applications;
 - (c) PGCB shall not be liable for any such actions and shall be under no obligation to inform the Applicant of the grounds for them.
6. We confirm that, with the submitted [Joint Venture Agreement or the Memorandum of Understanding among Partners for Forming Joint Venture], if we are selected to submit a proposal, that proposal as well as any resulting contract will be;
- (a) signed so as to legally bind all partners, jointly and severally; and
 - (b) submitted with a joint venture agreement providing the joint and several liability of all partners in the event the contract is awarded to us.

[Note: By declaration of the Para 6 above, the JV lead partner and the JV other partners (experiences, technical and financial capacity) will be jointly evaluated for the short-listing. The sub-contracted firm is not subject of evaluation. Applicants who are not forming Joint Ventures shall delete Para 6 and initial the deletion.]

7. The undersigned declare that the statements made and the information provided in this EOI are complete, true, and correct in every detail.

Signed	Signed
Name	Name
For and on behalf of (name of Applicant or JV lead partner)	For and on behalf of (name of JV partner)

Signed	Signed
Name	Name
For and on behalf of (name of JV partner)	For and on behalf of (name of JV partner)




Experience and Qualification of the Consulting firm

[Note: An applicant or each partner of JV is requested to list all contracts in which consulting services were or being provided by the applicant(s) for related fields as defined in the "Request for Expression of Interest (EOI)" during the last 15 years. The value should be based on the currencies of the contracts converted into USD, at the date of substantial completion, or for current contracts at the time of award.]

Name of assignment:	Country:
Duration (from/to)	Employer:
Contract status of the firm: Sole JV Leader JV Partner Subcontractor	ODA: Yes No Development Partner (if Yes):
Total contract amount:	Contract amount of the firm:
Total man-months of professional:	Man-months of professional provided by a consultant firm:
Summary of the consulting service:	




Experience and Qualification of the Expert Personnel

[Note: The following format shall be used to indicate the number of full-time experts related to the power transmission sub-sector working with the consultant firm for more than three years.]

Sl. No.	Expert Name	Position in Firm	Educational Qualification	Field of Expertise	Years of Experience	
					Total	in Firm

Name of the Consulting Firm _____

Signature_____



Summary of Financial Status of Consultant/ JV Lead Member

[Note: Data/information to be supported by audited financial statements (balance sheet, profit & loss account, and cash flow statement) and annual reports for the last five years.]

Sl.	Year	FY2011	FY2012	FY2013
1	Total Assets			
2	Current Assets			
3	Total Liabilities			
4	Current Liabilities			
5	Sales Turnover			
6	Gross Profit			
7	Profit after Tax			

Name of the Consulting Firm _____

Signature_____



Short Description of the Projects Against Consulting Services on detailed design and supervision of “Dhaka-Chittagong Main Power Grid Strengthening Project”

Background

- The Government of Bangladesh has applied for a loan from the Japan International Cooperation Agency (hereinafter referred to as "JICA") to finance the Dhaka-Chittagong Main Power Grid Strengthening Project which is to improve the stability and reliability of power supply by constructing high voltage Transmission Lines between Dhaka and Chittagong, thereby contributing to the economic development of Bangladesh and mitigation of climate change.
- The Project comprises of the following components: (Schematic Drawing; Attachment 3-1)
 - (1) 400kV Transmission Line
 - (a) 400kV transmission line between Meghnaghat SS and Madunaghat SS
 - (b) 400kV transmission line between Madunaghat SS and Matarbari power plant
 - (2) 230kV Transmission Line
 - (a) 230kV Line in Line out to 230 kV transmission line between Hathazari and Sikalbaha
 - (b) 230/132kV Madunaghat Sub Station related 230 kV transmission line
 - (3) 400/230kV and 230/132kV SS (Preliminary design; Attachment 3-2, 3, & 4)
 - (a) 400/230kV SS in Meghnaghat
 - (b) 400/230kV SS in Madunaghat
 - (c) 230/132 kV Madunaghat SS
 - (4) Access roads for Madunaghat SS
- The Government of Bangladesh intends to use part of the proceeds of the loan for eligible payments for consulting services.
- The Project is expected to be completed by March 2021.
- Location of the Project: Dhaka and Chittagong District
- Executing Agency: Power Grid Company of Bangladesh
- Technical information: Final Report for the Preparatory Survey on Dhaka - Chittagong Main Power Grid Strengthening Project, use of 400kV LL-ACSR Conductors, and 400/230kV Sub Station with GIS & AIS facilities
- Related projects: Matarbari Ultra Super Critical Coal-fired Power Project

Objectives of Consulting Services

The consulting services shall be provided by an international consulting firm (hereinafter referred to as "the Consultant") in association with national consultants in compliance with Guidelines for the Employment of Consultants under Japanese ODA Loans, April 2012. The objective of the consulting services is to achieve the efficient and proper preparation and implementation of the



Project through the following works:

- (1) Basic Design
- (2) Preparation of bid documents
- (3) Bid evaluation and facilitation of pre-contract discussion for EPC contracts
- (4) Approval of design & drawings, Construction supervision and certification of EPC contractors' works
- (5) Facilitation of implementation of Environmental Management Plan (EMP), Environmental Monitoring Plan (EMoP) and Resettlement Action Plan (RAP)
- (6) Technological knowledge transfer to PGCB engineers
- (7) Documentation of the project related documents such as project progress reports and project completion report

The Implementation of the Project is divided into two phases according to the implementation schedule, which is referred to as "Phase I" and "Phase II". The component for each phase is explained below. It shall be noted that the TOR required for the Project varies according to the Project Phase. Detailed TOR will be available during the invitation of the RFP.

The TOR (3)~(7) shall apply for Phase I, and TOR (1)~(7) shall apply for Phase II, "Phase I" and "Phase II" are defined as follows;

The Scope (a)~(d) shall be defined as "Phase I"; which PGCB named as "Meghnaghat-Madunaghat 400kV Transmission Line Project".

- (a) 400kV transmission line between Meghnaghat SS and Madunaghat SS : 214km
- (b) 230kV Line in Line out to 230 kV transmission line between Hathazari and Sikalbaha: 8km
- (c) 230kV switchyard portion of the 400/230kV SS in Meghnaghat and Madunaghat
- (d) 230/132 kV Madunaghat SS

The Scope (e)~(h) shall be defined as "Phase II";

- (e) 400kV transmission line between Madunaghat SS and Matarbari power plant: 100km
- (f) 230/132kV Madunaghat Sub Station related 230 kV transmission line: 8km
- (g) 400/230kV SS at Meghnaghat and Madunaghat except (c)
- (h) Access roads for Madunaghat SS

Time frame and inputs

The overall implementation period for Dhaka-Chittagong Main Power Grid Strengthening Project is tentative 79 (seventy nine) months including defect liability period.

As described above, the consultant will provide overall design, approval, supervision and management services, and from time-to-time suitably qualified experts to carry out these duties during the design, manufacturer, supply and installation activities and during the commissioning and testing periods at site.



Tentative Minimum Manpower Requirements (Shall be confirmed later in RFP)

In order to perform the tasks described above, Consultant will provide the required international and local manpower and furnish the detailed information and data. Total required man-month (MM) for the Consultant is: International Consultants (313.5MM) and Local Consultants (281.5 MM).

International Consultants:

1.	Project Manager (The Engineer)
2.	Deputy Project Manager (Substation)
3.	Substation Engineer (Electrical)
4.	Substation Engineer (structure)
5.	Control System Engineer
6.	Protection system Engineer
7.	Communication system Engineer
8.	Civil Engineer (Substation) -1
9	Civil Engineer (Substation) -2
10	Deputy Project Manager (TL, Electrical)
11	Transmission line engineer (Electrical)
12	Transmission line engineer (Tower 1)
13	Transmission line engineer (Tower 2)
14	Transmission line engineer (Civil)
15	Environmental Specialist
16	Commercial and Procurement Expert
17	Safety Expert
	TOTAL MM :313.5

Local Consultants:

1.	Civil Engineer (Substation)-1
2.	Civil Engineer (Substation)-2
3.	Substation Engineer-1
4.	Substation Engineer-2
5.	Protection, Control System Engineer
6.	Transmission line engineer (Civil)
7.	Transmission line engineer-1
8.	Transmission line engineer-2
9.	Transmission line engineer-3
10.	Environmental Specialist
11.	Legal and Contractual Expert
12.	Procurement Materials Control Experts
13.	Document Control and Administration
	TOTAL MM :281.5



Evaluation Criteria for Short Listing of Consultants

100 points will be awarded for capability of the Firms/JV and their manpower resources.

1. Technical Capacity of the Consultant (80points)

80 points are allocated for capability of the consultant as per the following criteria. For No. from (1) to (5), each consulting firm shall provide documentary evidence in support of their service experiences. Otherwise, no point will be awarded. In case of Joint Venture (JV), experiences of all JV partners are jointly counted.

A countable consulting service experience (contract) is defined as follows:

- (a) Successfully completed between January 2000 and EOI submission deadline
- (b) Providing services minimum 12 months with minimum 10 man-months from the consultant firm
- (c) Including but not limited to design and drawing work, bid document preparation, bid assistance, and construction supervision

No.	Description	Points
(1)	• Experience of consulting services for any sector's overseas projects outside of its own country of the consultant • Minimum two experiences	10
(2)	• Experience of consulting services for completed 400kV-above high voltage transmission line projects	25
(3)	• Experience of consulting services for completed 400kV or above GIS substation projects	15
(4)	• Experience of consulting services for completed 220kV or above AIS substation projects	10
(5)	• Experience of consulting services for transmission line and substation projects in SAARC + ASEAN countries	10
(6)	• Experience of consulting services for completed power transmission line and substation projects funded by JICA, World Bank or ADB	10
Sub-Total		80

2. Financial Capacity of the Consultant (10 points)

10 points are allocated for financial capacity of the consultant as per the following criteria.

No.	Description	Points
(6)	• Average sales turnover for the consultant (or JV lead partner) in last three years • Minimum USD 5million	10
Sub-Total		10

3. Institutional Capacity of the Consultant (10 points)

10 points are allocated for manpower resource availability of the consultant as per the following criteria. In case of Joint Venture (JV), engineers of all JV partners are jointly counted.

No.	Description	Points
(7)	• Full-time experts in power sectors working with the consultant for at least 3 years • Minimum 10 experts	10
Sub-Total		10
Grand Total		100

(END)

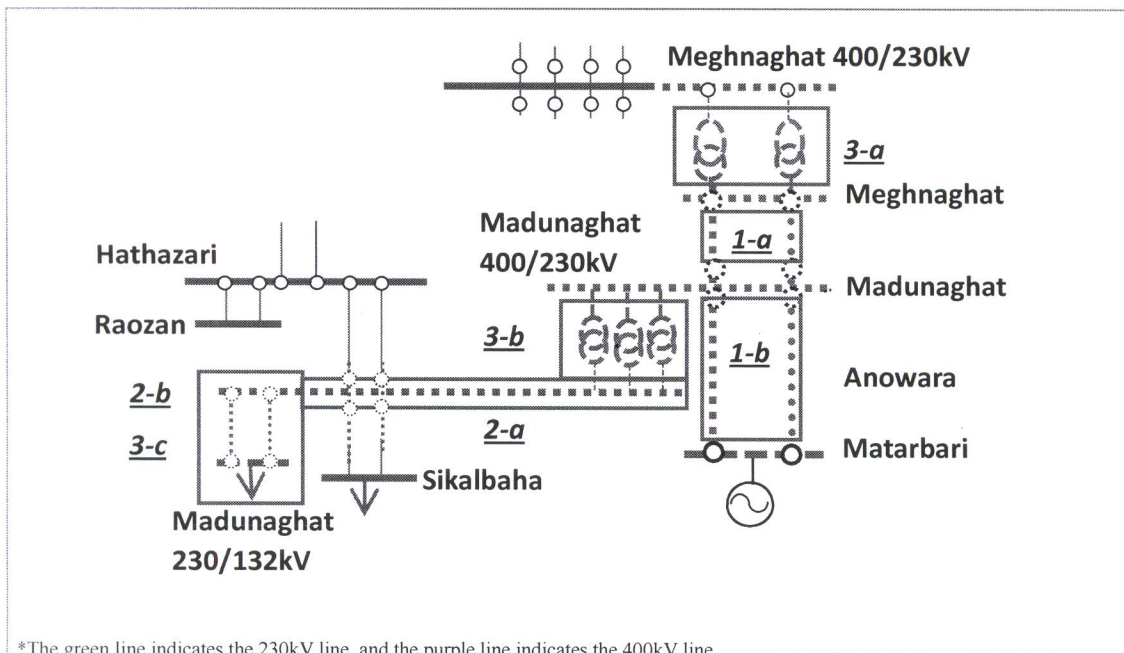


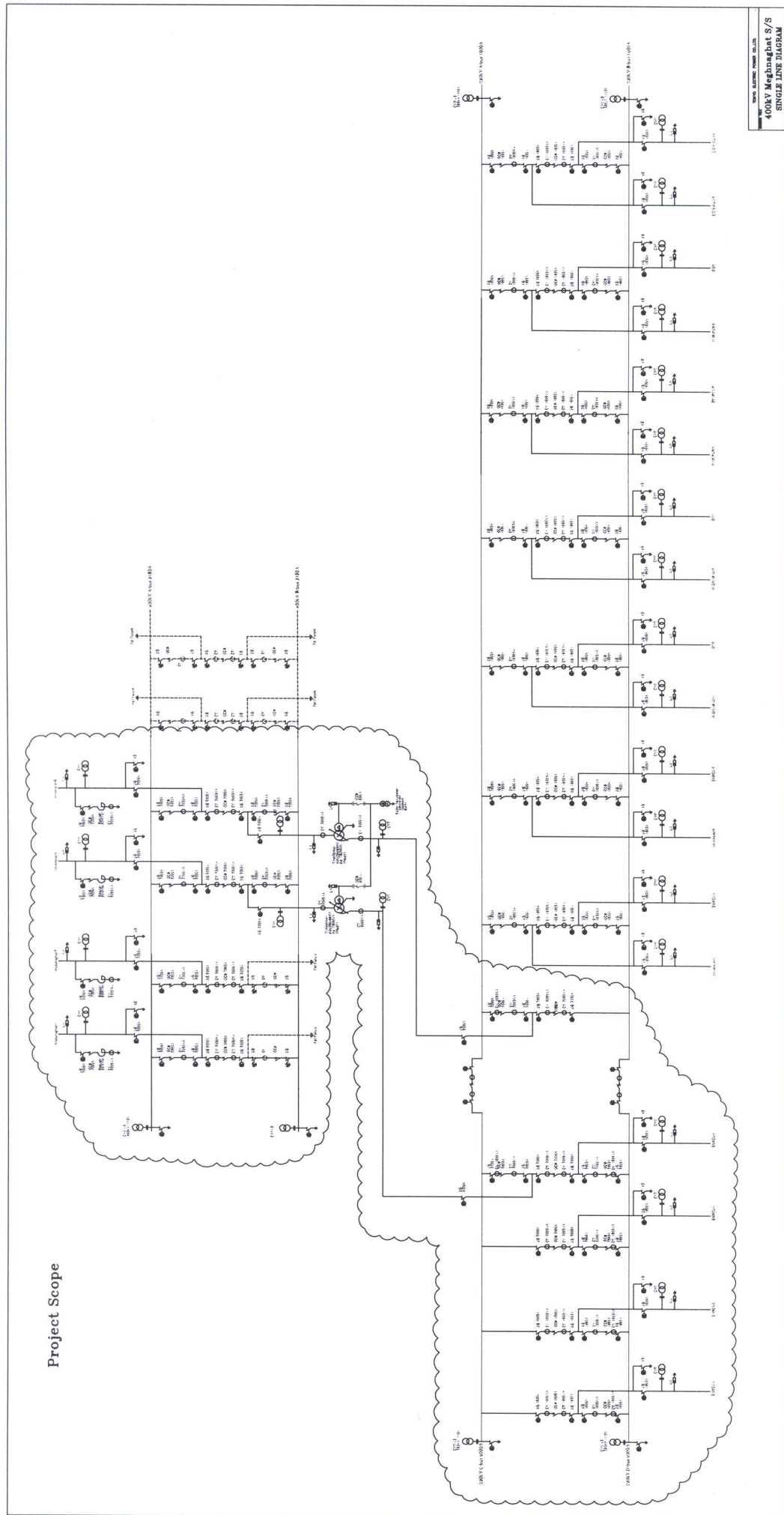
Scope of the Project

Project Component

1. JICA and PGCB agreed that the Project includes the following components.
 - (1) 400kV Transmission Line
 - (a) 400kV transmission line between Meghnaghat SS and Madunaghat SS
 - (b) 400kV transmission line between Madunaghat SS and Matarbari power plant
 - (2) 230kV Transmission Line
 - (a) 230kV Line in Line out to 230 kV transmission line between Hathazari and Sikalbaha
 - (b) 230/132kV Madunaghat Sub Station related 230 kV transmission line
 - (3) 400/230kV and 230/132kV SS (Preliminary design in Attachment 3-1,2, and 3)
 - (a) 400/230kV SS in Meghnaghat
 - (b) 400/230kV SS in Madunaghat
 - (c) 230/132 kV Madunaghat SS
 - (4) Access roads for Madunaghat SS
 - (5) Consulting Services (engineering and construction supervision)
2. JICA and PGCB agreed on the crucial role of the transmission line between the Dhaka and Chittagong area with regards to the expected further increase in capacity of power generation in Chittagong area. In this regard, the Preparatory Survey would assess the propitiate scheduling and planning for increasing the transmission line capacity.
3. JICA and PGCB, in response to the exigent power demand in Chittagong, agreed to expedite the implementation of project component 1-a and 2-b, as well as the 230kV switch yard portion of the component 3-a and 3-b, and define the implementation of this component as "Phase 1" of the Project. The rest components are referred to as the "Phase 2" of the Project.
4. In order to expedite the power transmission portion from Dhaka to Chittagong without delay due to harmonization with the 400/230kV Substation completion date which is expected in March 2021, the Project Component 1-a, the 400kV transmission line between Meghnaghat and Madunaghat will initially be utilized at 230kV capacity before the commissioning of the 400/230kV Meghnaghat and Madunaghat SS.

Project Component



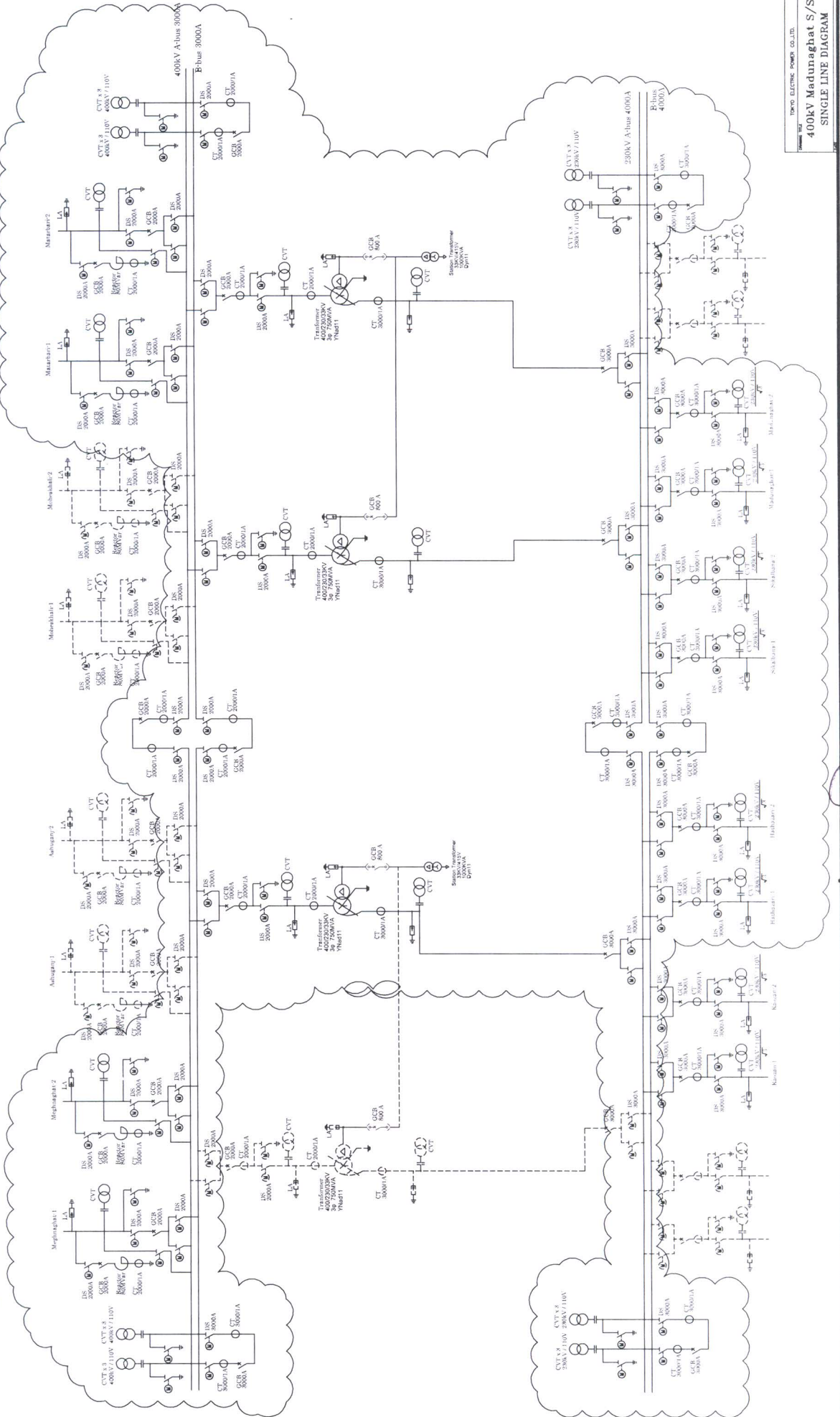


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※Note

This drawing is preliminary design.

Project Scope



400kV Madunaghat S/S
SINGLE LINE DIAGRAM

※ Note

This drawing is preliminary design.

Project Scope

