

**POWER GRID COMPANY OF BANGLADESH LIMITED**

**Capacity Enhancement of Existing Grid Substations and Transmission Lines Project**

**Design, Supply, Installation and Commissioning of Power Transformers and Capacitor Banks with associated switchgears on turnkey basis under Capacity Enhancement of Existing Grid Substations and Transmission Lines Project. (Package-2, Lot-1)**

**CLARIFICATION NO.1**

Pre-bid meeting was held on , 2022 as per clause 7.4 of Instruction to Bidders of Volume 1 of 3 of the Bidding document. Some queries were received from the prospective Bidders regarding the Bidding Documents prior the Pre-bid meeting as well as some of the bidders have submitted queries after pre-bid meeting. Clarifications on the above queries are given below, which will form part of the bidding documents.

| Sl. No.              | Reference and Queries of Prospective Bidders                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PGCB's Reply/Clarification       | Addendum (Yes-Y/No-N) |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------|
| <b>Volume-1 of 3</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                  |                       |
| 1.                   | <p>Section 9: Contract forms,<br/>Appendix 2 Price Adjustment/Escalation point (b) &amp; (g)</p> <p>(b) The date of adjustment shall be the mid-point of the period of manufacture of the component or Plant. The mid-point shall be determined by considering the start date of manufacture to be 30 days after Contract Effective Date. The end date of manufacture is considered to be 30 days prior to the shipping date.</p> <p>(g) Any payments resulting from price adjustments will be settled at the end of contract.</p> <p>Considering the manufacturing lead time is 3 months from the date of raw material sourcing, we request you to consider the date of adjustment for price variation as 90 days prior to the shipment of transformers.</p> | It shall be as per bid document. | N                     |

Toul





|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                              |   |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---|
|    | Considering the involvement of tax & duties, we request you to pay price variation payment along with main supply payment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                              |   |
| 2. | <p>Section 9: Contract forms,<br/>Appendix 1 Terms &amp; Procedures for payment, Schedule-4: Installation &amp; other services</p> <p>Sixty Five percent (65%) of the measured value of work performed by the Contractor, as identified in the said Program of Performance, during the preceding month, as evidenced by the Employer's authorization of the Contractor's application, will be made quarterly within forty-five (45) days after receipt of invoice.</p> <p>We understand that installation &amp; other services (65%) payment will be done each month for the work completed during preceding month. Please confirm.</p>                                                                                                                                                                                                                                                                                                                                                                                              | Your understanding is correct.<br>Please refer to Addendum-1 | Y |
| 3. | <p>Section 8: Special conditions of contract<br/>13.3.3 Securities</p> <p>The performance security shall not be reduced on the date of the operational acceptance.<br/>However, if the Defects Liability Period has been extended on any part of the Facilities pursuant to Sub-Clause 27.8 hereof, the Contractor shall issue an additional security in an amount proportionate to the Contract Price of that part.</p> <p>The security shall be returned to the Contractor immediately after its expiration, provided, however, that if the Contractor pursuant to Sub-Clause 27.10, is liable for an extended warranty obligation, the performance security shall be extended for the period and up to the amount specified in the clause 26.</p> <p>As additional security is being asked for part of facilities for which defect liability period is extended, we understand that performance security for the completed portion shall be returned after its expiration i.e. after defect liability period. Please confirm.</p> | Your understanding is correct.                               | N |

Touh

~~XX~~

JKSe

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                        |   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---|
|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                        |   |
| 4.                      | <p>Section 8: Special conditions of contract,<br/>26. Completion time Guarantee</p> <p>Applicable rate for liquidated damages: 0.5% (zero point five percent) of the contract price or the relevant part thereof per week for each lot separately.</p> <p>Maximum deduction for liquidated damages: 10% (ten percent) of the contract price.</p> <p>From the said clause, we understand 0.5% per week of Liquidated Damages shall be levied on undelivered portion of the contract price. Kindly confirm.</p>                                                                                 | It shall be as per bid document.                                                                                       | N |
| <b>Volume-2, 3 of 3</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                        |   |
| 5.                      | <p>SECTION I : Kaliakoir 400/230/132kV AIS S/s<br/>Electrical Layout of Bay extension at existing Kalikoir<br/>400/230/132/33kV AIS substation<br/>"Please provide/clarify the following details:</p> <p>1) Please clearly mark the BPI location from where the Busbar need to be extended under the present scope in tender layout.<br/>2) Please furnish the section drawing for any existing diameter with clear equipment-to-equipment spacing and height of the equipment.<br/>3) Please check and confirm the requirement of land levelling in proposed area.<br/>Please confirm. "</p> | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |
| 6.                      | <p>SECTION I : Kaliakoir 400/230/132kV AIS S/s<br/>Volume-2, General</p> <p>"Please furnish the following details for the existing substation:<br/>a) Existing earthing layout (or) Earthmat spacing<br/>b) Cable trench layout<br/>c) Lightning Protection Layout</p>                                                                                                                                                                                                                                                                                                                        | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |

Toul

Q/M

~~JKS~~

JKS

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                           |   |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---|
|     | d) AC/DC SLD<br>e) Section view of the existing Switchyard<br>f) Switchyard panel Room layout"                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                           |   |
| 7.  | SECTION I : Kaliakoir 400/230/132kV AIS S/s<br>Electrical Layout of Bay extension at existing S/s<br><br>"Please furnish the following details:<br>a) Whether the extension portion in the existing switchyard is levelled<br>b) Whether gravel filling need to be done?<br>c) Whether Earth mat is available for this portion?<br>d) Please provide the earth mat spacing (or) Existing earth mat layout<br>e) Type & size of the existing earthing conductors (Cu/GI/MS & its size)" | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required.                    | N |
| 8.  | SECTION I : Kaliakoir 400/230/132kV AIS S/s<br>Conductor Details at existing S/s<br><br>"Please provide the following Conductor type & configuration existing switchyard:<br>a) Main bus<br>b) Equipment bus<br>c) Strung bus"                                                                                                                                                                                                                                                         | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required.                    | N |
| 9.  | SECTION I : Kaliakoir 400/230/132kV AIS S/s<br>Local Control house<br><br>We do not envisage construction of new control house for the proposed bay extension in AIS S/s. We presume the proposed relay panes will be located in the existing Local control house. Please confirm.                                                                                                                                                                                                     | Confirmed.                                                                                                                                | N |
| 10. | SECTION II : Agargaon 230/132/33kV GIS S/s<br>GIS Building<br><br>"We understand that space for present scope transformer bay extension is available in following existing GIS buildings. Extension                                                                                                                                                                                                                                                                                    | All GIS Bay extensions under this project shall be in the existing GIS building. Bidders are requested to conduct site visit if required. | N |

Toul

BR

~~AS~~

JKCa

|     |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                        |   |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---|
|     | <p>of existing building is not in scope.</p> <p>1. 230kV GIS Building at Agargaon S/s</p> <p>2. 132kV GIS Building at Agargaon S/s</p> <p>3. 132kV GIS Building at Bhasantek S/s</p> <p>4. 33kV GIS Building at Bhasantek S/s</p> <p>Further, we understand that all the existing GIS buildings are RCC type.</p> <p>Kindly confirm whether bidder's understanding is in order."</p>            |                                                                                                                        |   |
| 11. | <p>SECTION II : Agargaon 230/132/33kV GIS S/s</p> <p>"Volume-3, Price schedule, B1, Section-2, Item No. 2H1 &amp;</p> <p>Volume-3, Price schedule, B1, Section-4, Item No. 4H1"</p> <p>We understand that both indoor GIL (inside GIS hall) &amp; outdoor GIL shall be quoted under referred price schedule item. Please confirm.</p>                                                           | Confirmed.                                                                                                             | N |
| 12. | <p>SECTION II : Agargaon 230/132/33kV GIS S/s</p> <p>"Volume-3, Price schedule, B1, Section-2, Item No. 2H1 &amp;</p> <p>Volume-3, Price schedule, B1, Section-4, Item No. 4H3"</p> <p>As it is not clear from the BPS whether the GIL quantity is 1-phase (or) 3-phase, please provide separate line items for 1-phase GIL &amp; 3-phase GIL.</p>                                              | As per tender.                                                                                                         | N |
| 13. | <p>SECTION II : Agargaon 230/132/33kV GIS S/s</p> <p>Volume-2, General</p> <p>"Please furnish the following details for the existing substation:</p> <p>a) Existing earthing layout (or) Earthmat spacing</p> <p>b) Cable trench layout</p> <p>c) Lightning Protection Layout</p> <p>d) AC/DC SLD</p> <p>e) Section view of the existing Switchyard</p> <p>f) Switchyard panel Room layout"</p> | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |
| 14. | <p>SECTION II : Agargaon 230/132/33kV GIS S/s</p> <p>Electrical Layout of Bay extension at existing S/s</p>                                                                                                                                                                                                                                                                                     | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits              | N |

Toul

Am



J K G

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                            |   |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---|
|     | <p>"Please furnish the following details:</p> <p>a) Whether the extension portion in the existing switchyard is levelled</p> <p>b) Whether gravel filling need to be done?</p> <p>c) Whether Earth mat is available for this portion?</p> <p>d) Please provide the earth mat spacing (or) Existing earth mat layout</p> <p>e) Type &amp; size of the existing earthing conductors (Cu/GI/MS &amp; its size)</p> <p>"</p>                                                                   | if required.                                                                                                               |   |
| 15. | <p>SECTION II : Agargaon 230/132/33kV GIS S/s</p> <p>Conductor Details at existing S/s</p> <p>"Please provide the following Conductor type &amp; configuration existing switchyard:</p> <p>a) Main bus</p> <p>b) Equipment bus</p> <p>c) Strung bus"</p>                                                                                                                                                                                                                                   | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required.     | N |
| 16. | <p>SECTION II : Agargaon 230/132/33kV GIS S/s</p> <p>Local Control house</p> <p>We do not envisage construction of new control house for the proposed bay extension in AIS S/s. We presume the proposed relay panes will be located in the existing Local control house. Please confirm.</p>                                                                                                                                                                                               | Confirmed.                                                                                                                 | N |
| 17. | <p>SECTION III : Tongi 230/132/33kV AIS S/s</p> <p>Volume-III, Schedule A, Clause 1.3.3.3B, Tongi S/s</p> <p>"As per referred clause, replacement of following equipments are mentioned :</p> <p>1. Two (2) sets of 230kV, 3150A, 50kA/1sec, 50Hz, 1050kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism</p> <p>However, we understand that the replacement of tie circuit breaker of associated diameter is also required.</p> | Bidder's understanding is not correct. This two CB shall replace the existing T02 transformer diameter's Tr CB and Tie CB. | N |

Toul

Am

~~Am~~

JKSa

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                           |   |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|---|
|     | Kindly confirm if the bidder's understanding is in order."                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                           |   |
| 18. | <p>SECTION III : Tongi 230/132/33kV AIS S/s<br/>Volume-III, Schedule A, Clause 1.3.3.3B, Tongi S/s</p> <p>"As per referred clause, replacement of following equipments are mentioned :<br/>1. One (1) set of 230kV, 3150A, 50kA/1sec, 50Hz, 1050kVp BIL, outdoor type, single pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism.<br/>We understand that the same to be replaced in existing TR-01 bay.<br/>Kindly confirm if the bidder's understanding is in order."</p> | Bidder's understanding is not correct. This CB shall replace the existing T02 transformer diameter's Ghorashal-2 line CB. | N |
| 19. | <p>SECTION III : Tongi 230/132/33kV AIS S/s<br/>CRP-SAS</p> <p>Kindly provide the existing make of control &amp; relay panel and SAS system for substation to carry out modification work as per specification.</p>                                                                                                                                                                                                                                                                                      | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required.    | N |
| 20. | <p>SECTION III : Tongi 230/132/33kV AIS S/s<br/>Volume-2, General</p> <p>"Please furnish the following details for the existing substation:<br/>a) Existing earthing layout (or) Earthmat spacing<br/>b) Cable trench layout<br/>c) Lightning Protection Layout<br/>d) AC/DC SLD<br/>e) Section view of the existing Switchyard<br/>f) Switchyard panel Room layout"</p>                                                                                                                                 | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required.    | N |
| 21. | <p>SECTION III : Tongi 230/132/33kV AIS S/s<br/>Electrical Layout of Bay extension at existing S/s</p> <p>"Please furnish the following details:<br/>a) Whether the extension portion in the existing switchyard is levelled<br/>b) Whether gravel filling need to be done?<br/>c) Whether Earth mat is available for this portion?<br/>d) Please provide the earth mat spacing (or) Existing earth mat</p>                                                                                              | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required.    | N |

Toul

BR

\*

JKG

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                        |   |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---|
|     | layout<br>e) Type & size of the existing earthing conductors (Cu/GI/MS & its size)<br>"                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                        |   |
| 22. | SECTION III : Tongi 230/132/33kV AIS S/s<br>Conductor Details at existing S/s<br><br>"Please provide the following Conductor type & configuration existing switchyard:<br>a) Main bus<br>b) Equipment bus<br>c) Strung bus"                                                                                                                                                                                                                                                                                                                            | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |
| 23. | SECTION III : Tongi 230/132/33kV AIS S/s<br>Local Control house<br><br>We do not envisage construction of new control house for the proposed bay extension in AIS S/s. We presume the proposed relay panes will be located in the existing Local control house. Please confirm.                                                                                                                                                                                                                                                                        | Confirmed.                                                                                                             | N |
| 24. | SECTION IV : Bhasantek 132/33kV GIS S/s<br>GIS Building<br><br>"We understand that space for present scope transformer bay extension is available in following existing GIS buildings. Extension of existing building is not in scope.<br>1. 230kV GIS Building at Agargaon S/s<br>2. 132kV GIS Building at Agargaon S/s<br>3. 132kV GIS Building at Bhasantek S/s<br>4. 33kV GIS Building at Bhasantek S/s<br>Further, we understand that all the existing GIS buildings are RCC type.<br>Kindly confirm whether bidder's understanding is in order." | All GIS Bay extensions under this project shall be in the existing GIS building.                                       | N |
| 25. | SECTION IV : Bhasantek 132/33kV GIS S/s<br>"Volume-3, Price schedule, B1, Section-2, Item No. 2H1 &<br>Volume-3, Price schedule, B1, Section-4, Item No. 4H1"                                                                                                                                                                                                                                                                                                                                                                                          | Confirmed.                                                                                                             | N |

Toul

BM

~~KS~~

JKS

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                        |   |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---|
|     | We understand that both indoor GIL (inside GIS hall) & outdoor GIL shall be quoted under referred price schedule item. Please confirm.                                                                                                                                                                                                                                                                                                                                             |                                                                                                                        |   |
| 26. | SECTION IV : Bhasantek 132/33kV GIS S/s<br>"Volume-3, Price schedule, B1, Section-2, Item No. 2H1 &<br>Volume-3, Price schedule, B1, Section-4, Item No. 4H3"<br><br>As it is not clear from the BPS whether the GIL quantity is 1-phase (or) 3-phase, please provide separate line items for 1-phase GIL & 3-phase GIL.                                                                                                                                                           | As per tender.                                                                                                         | N |
| 27. | SECTION IV : Bhasantek 132/33kV GIS S/s<br>Volume-2, General<br><br>"Please furnish the following details for the existing substation:<br>a) Existing earthing layout (or) Earthmat spacing<br>b) Cable trench layout<br>c) Lightning Protection Layout<br>d) AC/DC SLD<br>e) Section view of the existing Switchyard<br>f) Switchyard panel Room layout"                                                                                                                          | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |
| 28. | SECTION IV : Bhasantek 132/33kV GIS S/s<br>Electrical Layout of Bay extension at existing S/s<br>"Please furnish the following details:<br>a) Whether the extension portion in the existing switchyard is levelled<br>b) Whether gravel filling need to be done?<br>c) Whether Earth mat is available for this portion?<br>d) Please provide the earth mat spacing (or) Existing earth mat layout<br>e) Type & size of the existing earthing conductors (Cu/GI/MS & its size)<br>" | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |
| 29. | SECTION IV : Bhasantek 132/33kV GIS S/s<br>Conductor Details at existing S/s                                                                                                                                                                                                                                                                                                                                                                                                       | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits              | N |

*Law*

*BR*

*[Signature]*

*JKS*

|     |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                        |   |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---|
|     | <p>"Please provide the following Conductor type &amp; configuration existing switchyard:</p> <p>a) Main bus</p> <p>b) Equipment bus</p> <p>c) Strung bus"</p>                                                                                                                                                                                                                              | if required.                                                                                                           |   |
| 30. | <p>SECTION IV : Bhasantek 132/33kV GIS S/s</p> <p>Local Control house</p> <p>We do not envisage construction of new control house for the proposed bay extension in AIS S/s. We presume the proposed relay panes will be located in the existing Local control house. Please confirm.</p>                                                                                                  | Confirmed.                                                                                                             | N |
| 31. | <p>SECTION V : Faridpur 132/33kV AIS S/s</p> <p>CRP-SAS</p> <p>Kindly provide the existing make of control &amp; relay panel and SAS system for substation to carry out modification work as per specification.</p>                                                                                                                                                                        | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |
| 32. | <p>SECTION V : Faridpur 132/33kV AIS S/s</p> <p>Volume-III, Schedule A, Clause 1.3.5.5G2, Faridpur S/s</p> <p>"As per Price schedule B1, section-5, SI No. 5G2, 1 run of 33kV cable per phase to be considered, however, as per referred clause, 3 runs per phase is mentioned for the same. Kindly confirm the actual requirement."</p>                                                   | It shall be 3 run per phase. Please see addendum-1 (Volume 3 of 3, 2(A)).                                              | Y |
| 33. | <p>SECTION V : Faridpur 132/33kV AIS S/s</p> <p>Volume-2, General</p> <p>"Please furnish the following details for the existing substation:</p> <p>a) Existing earthing layout (or) Earthmat spacing</p> <p>b) Cable trench layout</p> <p>c) Lightning Protection Layout</p> <p>d) AC/DC SLD</p> <p>e) Section view of the existing Switchyard</p> <p>f) Switchyard panel Room layout"</p> | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |

Toul

BM

~~KS~~

JKCa

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                        |   |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---|
| 34. | <p>SECTION V : Faridpur 132/33kV AIS S/s<br/>Electrical Layout of Bay extension at existing S/s</p> <p>SECTION V : Faridpur 132/33kV AIS S/s<br/>"Please furnish the following details:<br/>a) Whether the extension portion in the existing switchyard is levelled<br/>b) Whether gravel filling need to be done?<br/>c) Whether Earth mat is available for this portion?<br/>d) Please provide the earth mat spacing (or) Existing earth mat layout<br/>e) Type &amp; size of the existing earthing conductors (Cu/GI/MS &amp; its size)<br/>"</p> | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |
| 35. | <p>SECTION V : Faridpur 132/33kV AIS S/s<br/>Conductor Details at existing S/s</p> <p>"Please provide the following Conductor type &amp; configuration existing switchyard:<br/>a) Main bus<br/>b) Equipment bus<br/>c) Strung bus"</p>                                                                                                                                                                                                                                                                                                              | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |
| 36. | <p>SECTION V : Faridpur 132/33kV AIS S/s<br/>Local Control house</p> <p>We do not envisage construction of new control house for the proposed bay extension in AIS S/s. We presume the proposed relay panes will be located in the existing Local control house. Please confirm.</p>                                                                                                                                                                                                                                                                 | Confirmed.                                                                                                             | N |
| 37. | <p>SECTION VI : Madaripur 132/33kV AIS S/s<br/>CRP-SAS</p> <p>Kindly provide the existing make of control &amp; relay panel and SAS system for substation to carry out modification work as per specification.</p>                                                                                                                                                                                                                                                                                                                                   | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |
| 38. | SECTION VI : Madaripur 132/33kV AIS S/s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | This three (3) nos. 30kV surge arrester is for T3                                                                      | N |

Tan

an

✗

JKS

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                        |   |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---|
|     | <p>Volume-III, Schedule A, Clause 1.3.6.6C, Madaripur S/s</p> <p>"As per referred clause, bidder has mentioned only 3 Nos. of 30kV surge arresters, however, replacement work of 2 transformer bays is in scope.<br/>Kindly check and issue the suitable amendment."</p>                                                                                                                                                                                                                                     | transformer's 33kV incomer bay only.                                                                                   |   |
| 39. | <p>SECTION VI : Madaripur 132/33kV AIS S/s<br/>Volume-2, General</p> <p>"Please furnish the following details for the existing substation:<br/>a) Existing earthing layout (or) Earthmat spacing<br/>b) Cable trench layout<br/>c) Lightning Protection Layout<br/>d) AC/DC SLD<br/>e) Section view of the existing Switchyard<br/>f) Switchyard panel Room layout"</p>                                                                                                                                      | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |
| 40. | <p>SECTION VI : Madaripur 132/33kV AIS S/s<br/>Electrical Layout of Bay extension at existing S/s</p> <p>"Please furnish the following details:<br/>a) Whether the extension portion in the existing switchyard is levelled<br/>b) Whether gravel filling need to be done?<br/>c) Whether Earth mat is available for this portion?<br/>d) Please provide the earth mat spacing (or) Existing earth mat layout<br/>e) Type &amp; size of the existing earthing conductors (Cu/GI/MS &amp; its size)<br/>"</p> | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |
| 41. | <p>SECTION VI : Madaripur 132/33kV AIS S/s<br/>Conductor Details at existing S/s</p> <p>"Please provide the following Conductor type &amp; configuration existing switchyard:<br/>a) Main bus<br/>b) Equipment bus</p>                                                                                                                                                                                                                                                                                       | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |

Toul

BB

~~BB~~

J K S

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                        |   |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---|
|     | c) Strung bus"                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                        |   |
| 42. | SECTION VI : Madaripur 132/33kV AIS S/s<br>Local Control house<br><br>We do not envisage construction of new control house for the proposed bay extension in AIS S/s. We presume the proposed relay panes will be located in the existing Local control house. Please confirm.                                                                                                                                                                                                            | Confirmed.                                                                                                             | N |
| 43. | SECTION VII & VIII: Pabna 132/33kV AIS S/s<br>Volume-2, General<br><br>"Please furnish the following details for the existing substation:<br>a) Existing earthing layout (or) Earthmat spacing<br>b) Cable trench layout<br>c) Lightning Protection Layout<br>d) AC/DC SLD<br>e) Section view of the existing Switchyard<br>f) Switchyard panel Room layout"                                                                                                                              | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |
| 44. | SECTION VII & VIII: Pabna 132/33kV AIS S/s<br>Electrical Layout of Bay extension at existing S/s<br><br>"Please furnish the following details:<br>a) Whether the extension portion in the existing switchyard is levelled<br>b) Whether gravel filling need to be done?<br>c) Whether Earth mat is available for this portion?<br>d) Please provide the earth mat spacing (or) Existing earth mat layout<br>e) Type & size of the existing earthing conductors (Cu/GI/MS & its size)<br>" | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |
| 45. | SECTION VII & VIII: Pabna 132/33kV AIS S/s<br>Conductor Details at existing S/s<br><br>"Please provide the following Conductor type & configuration existing switchyard:                                                                                                                                                                                                                                                                                                                  | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |

Torh

BB

~~BB~~

JKG

|     |                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                |   |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---|
|     | a) Main bus<br>b) Equipment bus<br>c) Strung bus"                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                |   |
| 46. | SECTION VII & VIII: Pabna 132/33kV AIS S/s<br>Local Control house<br><br>We do not envisage construction of new control house for the proposed bay extension in AIS S/s. We presume the proposed relay panes will be located in the existing Local control house. Please confirm.                                                                                                  | Confirmed.                                                                                                                                     | N |
| 47. | SECTION IX : 36kV capacitor banks at Panchagarh 132/33kV AIS S/s<br>Volume-III, Schedule A, Clause 1.3.9.9B, Panchagarh S/s<br><br>"As per Price schedule B1, section-9, SI No. 9B1, supply of SF6 insulated 33kV circuit breaker is in scope, however, as per referred clause 33kV vacuum circuit breaker is mentioned. Kindly confirm the actual requirement."                   | 33kV CB type shall be as follows:<br>a) For Power Transformer's 33kV incomer: VCB<br>b) For 33kV Capacitor Bank: SF6<br>Please see addendum-1. | Y |
| 48. | SECTION IX : 36kV capacitor banks at Panchagarh 132/33kV AIS S/s<br>CRP-SAS<br><br>Kindly provide the existing make of control & relay panel and SAS system for substation to carry out modification work as per specification.                                                                                                                                                    | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required.                         | N |
| 49. | SECTION IX : 36kV capacitor banks at Panchagarh 132/33kV AIS S/s<br>Volume-2, General<br><br>"Please furnish the following details for the existing substation:<br>a) Existing earthing layout (or) Earthmat spacing<br>b) Cable trench layout<br>c) Lightning Protection Layout<br>d) AC/DC SLD<br>e) Section view of the existing Switchyard<br>f) Switchyard panel Room layout" | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required.                         | N |

Toul

BPA

~~XXXX~~

JKCa

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                               |   |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---|
| 50. | <p>SECTION IX : 36kV capacitor banks at Panchagarh 132/33kV AIS S/s</p> <p>Electrical Layout of Bay extension at existing S/s</p> <p>"Please furnish the following details:</p> <p>a) Whether the extension portion in the existing switchyard is levelled</p> <p>b) Whether gravel filling need to be done?</p> <p>c) Whether Earth mat is available for this portion?</p> <p>d) Please provide the earth mat spacing (or) Existing earth mat layout</p> <p>e) Type &amp; size of the existing earthing conductors (Cu/GI/MS &amp; its size)</p> <p>"</p> | <p>Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required.</p> | N |
| 51. | <p>SECTION IX : 36kV capacitor banks at Panchagarh 132/33kV AIS S/s</p> <p>Conductor Details at existing S/s</p> <p>"Please provide the following Conductor type &amp; configuration existing switchyard:</p> <p>a) Main bus</p> <p>b) Equipment bus</p> <p>c) Strung bus"</p>                                                                                                                                                                                                                                                                             | <p>Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required.</p> | N |
| 52. | <p>SECTION IX : 36kV capacitor banks at Panchagarh 132/33kV AIS S/s</p> <p>Local Control house</p> <p>We do not envisage construction of new control house for the proposed bay extension in AIS S/s. We presume the proposed relay panes will be located in the existing Local control house. Please confirm.</p>                                                                                                                                                                                                                                         | <p>Confirmed.</p>                                                                                                             | N |
| 53. | <p>SECTION X : 36kV capacitor banks at Thakurgaon 132/33kV AIS S/s</p> <p>CRP-SAS</p> <p>Kindly provide the existing make of control &amp; relay panel and</p>                                                                                                                                                                                                                                                                                                                                                                                             | <p>Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required.</p> | N |

*Toul*

*BP*

*2/16*

*JKS*

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                        |   |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---|
|     | SAS system for substation to carry out modification work as per specification.                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                        |   |
| 54. | SECTION X : 36kV capacitor banks at Thakurgaon 132/33kV AIS S/s<br>Volume-2, General<br><br>"Please furnish the following details for the existing substation:<br>a) Existing earthing layout (or) Earthmat spacing<br>b) Cable trench layout<br>c) Lightning Protection Layout<br>d) AC/DC SLD<br>e) Section view of the existing Switchyard<br>f) Switchyard panel Room layout"                                                                                                                              | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |
| 55. | SECTION X : 36kV capacitor banks at Thakurgaon 132/33kV AIS S/s<br>Electrical Layout of Bay extension at existing S/s<br><br>"Please furnish the following details:<br>a) Whether the extension portion in the existing switchyard is levelled<br>b) Whether gravel filling need to be done?<br>c) Whether Earth mat is available for this portion?<br>d) Please provide the earth mat spacing (or) Existing earth mat layout<br>e) Type & size of the existing earthing conductors (Cu/GI/MS & its size)<br>" | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |
| 56. | SECTION X : 36kV capacitor banks at Thakurgaon 132/33kV AIS S/s<br>Conductor Details at existing S/s<br><br>"Please provide the following Conductor type & configuration existing switchyard:<br>a) Main bus<br>b) Equipment bus<br>c) Strung bus"                                                                                                                                                                                                                                                             | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |

Toul

BR

~~BR~~

JKce

|     |                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                        |   |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---|
| 57. | SECTION X : 36kV capacitor banks at Thakurgaon 132/33kV AIS S/s<br>Local Control house<br><br>We do not envisage construction of new control house for the proposed bay extension in AIS S/s. We presume the proposed relay panes will be located in the existing Local control house. Please confirm.                                                                                                                 | Confirmed.                                                                                                             | N |
| 58. | SECTION XI : 36kV capacitor banks at Joypurhat 132/33kV AIS S/s<br>CRP-SAS<br><br>Kindly provide the existing make of control & relay panel and SAS system for substation to carry out modification work as per specification.                                                                                                                                                                                         | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |
| 59. | SECTION XI : 36kV capacitor banks at Joypurhat 132/33kV AIS S/s<br>Volume-2, General<br><br>"Please furnish the following details for the existing substation:<br>a) Existing earthing layout (or) Earthmat spacing<br>b) Cable trench layout<br>c) Lightning Protection Layout<br>d) AC/DC SLD<br>e) Section view of the existing Switchyard<br>f) Switchyard panel Room layout"                                      | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |
| 60. | SECTION XI : 36kV capacitor banks at Joypurhat 132/33kV AIS S/s<br>Electrical Layout of Bay extension at existing S/s<br><br>"Please furnish the following details:<br>a) Whether the extension portion in the existing switchyard is levelled<br>b) Whether gravel filling need to be done?<br>c) Whether Earth mat is available for this portion?<br>d) Please provide the earth mat spacing (or) Existing earth mat | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |

*Concl*

*an*

*[Signature]*

*JKSa*

|     |                                                                                                                                                                                                                                                                                                        |                                                                                                                        |   |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---|
|     | layout<br>e) Type & size of the existing earthing conductors (Cu/GI/MS & its size)<br>"                                                                                                                                                                                                                |                                                                                                                        |   |
| 61. | SECTION XI : 36kV capacitor banks at Joypurhat 132/33kV AIS S/s<br>Conductor Details at existing S/s<br><br>"Please provide the following Conductor type & configuration existing switchyard:<br>a) Main bus<br>b) Equipment bus<br>c) Strung bus"                                                     | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |
| 62. | SECTION XI : 36kV capacitor banks at Joypurhat 132/33kV AIS S/s<br>Local Control house<br><br>We do not envisage construction of new control house for the proposed bay extension in AIS S/s. We presume the proposed relay panes will be located in the existing Local control house. Please confirm. | Confirmed.                                                                                                             | N |
| 63. | SECTION XII : 36kV capacitor banks at Coax bazar 132/33kV AIS S/s<br>CRP-SAS<br><br>Kindly provide the existing make of control & relay panel and SAS system for substation to carry out modification work as per specification.                                                                       | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |
| 64. | SECTION XII : 36kV capacitor banks at Coax bazar 132/33kV AIS S/s<br>Volume-2, General<br><br>"Please furnish the following details for the existing substation:<br>a) Existing earthing layout (or) Earthmat spacing<br>b) Cable trench layout<br>c) Lightning Protection Layout                      | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |

Toul

BM

~~KS~~

JKS

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                        |   |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---|
|     | d) AC/DC SLD<br>e) Section view of the existing Switchyard<br>f) Switchyard panel Room layout"                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                        |   |
| 65. | SECTION XII : 36kV capacitor banks at Coax bazar 132/33kV AIS S/s<br>Electrical Layout of Bay extension at existing S/s<br><br>"Please furnish the following details:<br>a) Whether the extension portion in the existing switchyard is levelled<br>b) Whether gravel filling need to be done?<br>c) Whether Earth mat is available for this portion?<br>d) Please provide the earth mat spacing (or) Existing earth mat layout<br>e) Type & size of the existing earthing conductors (Cu/GI/MS & its size)<br>" | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |
| 66. | SECTION XII : 36kV capacitor banks at Coax bazar 132/33kV AIS S/s<br>Conductor Details at existing S/s<br><br>"Please provide the following Conductor type & configuration existing switchyard:<br>a) Main bus<br>b) Equipment bus<br>c) Strung bus"                                                                                                                                                                                                                                                             | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |
| 67. | SECTION XII : 36kV capacitor banks at Coax bazar 132/33kV AIS S/s<br>Local Control house<br><br>We do not envisage construction of new control house for the proposed bay extension in AIS S/s. We presume the proposed relay panes will be located in the existing Local control house. Please confirm.                                                                                                                                                                                                         | Confirmed.                                                                                                             | N |
| 68. | SECTION XIII : 36kV capacitor banks at Chaudanga 132/33kV AIS S/s                                                                                                                                                                                                                                                                                                                                                                                                                                                | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits              | N |

Toul

BM



JKS

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                        |   |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---|
|     | CRP-SAS<br><br>Kindly provide the existing make of control & relay panel and SAS system for substation to carry out modification work as per specification.                                                                                                                                                                                                                                                                                                                                                      | if required.                                                                                                           |   |
| 69. | SECTION XIII : 36kV capacitor banks at Chaudanga 132/33kV AIS S/s<br>Volume-2, General<br><br>"Please furnish the following details for the existing substation:<br>a) Existing earthing layout (or) Earthmat spacing<br>b) Cable trench layout<br>c) Lightning Protection Layout<br>d) AC/DC SLD<br>e) Section view of the existing Switchyard<br>f) Switchyard panel Room layout"                                                                                                                              | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |
| 70. | SECTION XIII : 36kV capacitor banks at Chaudanga 132/33kV AIS S/s<br>Electrical Layout of Bay extension at existing S/s<br><br>"Please furnish the following details:<br>a) Whether the extension portion in the existing switchyard is levelled<br>b) Whether gravel filling need to be done?<br>c) Whether Earth mat is available for this portion?<br>d) Please provide the earth mat spacing (or) Existing earth mat layout<br>e) Type & size of the existing earthing conductors (Cu/GI/MS & its size)<br>" | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |
| 71. | SECTION XIII : 36kV capacitor banks at Chaudanga 132/33kV AIS S/s<br>Conductor Details at existing S/s<br><br>"Please provide the following Conductor type & configuration existing switchyard:                                                                                                                                                                                                                                                                                                                  | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |

*Touh*

*BM*

*~~KS~~*

*JKS*

|     |                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                        |   |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---|
|     | a) Main bus<br>b) Equipment bus<br>c) Strung bus"                                                                                                                                                                                                                                                                                                                                     |                                                                                                                        |   |
| 72. | SECTION XIII : 36kV capacitor banks at Chaudanga 132/33kV<br>AIS S/s<br>Local Control house<br><br>We do not envisage construction of new control house for the proposed bay extension in AIS S/s. We presume the proposed relay panes will be located in the existing Local control house. Please confirm.                                                                           | Confirmed.                                                                                                             | N |
| 73. | SECTION XIV : 36kV capacitor banks at Bhandaria 132/33kV<br>AIS S/s<br>CRP-SAS<br><br>Kindly provide the existing make of control & relay panel and SAS system for substation to carry out modification work as per specification.                                                                                                                                                    | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |
| 74. | SECTION XIV : 36kV capacitor banks at Bhandaria 132/33kV<br>AIS S/s<br>Volume-2, General<br><br>"Please furnish the following details for the existing substation:<br>a) Existing earthing layout (or) Earthmat spacing<br>b) Cable trench layout<br>c) Lightning Protection Layout<br>d) AC/DC SLD<br>e) Section view of the existing Switchyard<br>f) Switchyard panel Room layout" | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |
| 75. | SECTION XIV : 36kV capacitor banks at Bhandaria 132/33kV<br>AIS S/s<br>Electrical Layout of Bay extension at existing S/s<br><br>"Please furnish the following details:<br>a) Whether the extension portion in the existing switchyard is levelled                                                                                                                                    | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |

Toul

BP

~~BP~~

JKS

|     |                                                                                                                                                                                                                                                                                                                    |                                                                                                                               |   |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---|
|     | <p>b) Whether gravel filling need to be done?</p> <p>c) Whether Earth mat is available for this portion?</p> <p>d) Please provide the earth mat spacing (or) Existing earth mat layout</p> <p>e) Type &amp; size of the existing earthing conductors (Cu/GI/MS &amp; its size)</p> <p>"</p>                        |                                                                                                                               |   |
| 76. | <p>SECTION XIV : 36kV capacitor banks at Bhandaria 132/33kV AIS S/s</p> <p>Conductor Details at existing S/s</p> <p>"Please provide the following Conductor type &amp; configuration existing switchyard:</p> <p>a) Main bus</p> <p>b) Equipment bus</p> <p>c) Strung bus"</p>                                     | <p>Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required.</p> | N |
| 77. | <p>SECTION XIV : 36kV capacitor banks at Bhandaria 132/33kV AIS S/s</p> <p>Local Control house</p> <p>We do not envisage construction of new control house for the proposed bay extension in AIS S/s. We presume the proposed relay panes will be located in the existing Local control house. Please confirm.</p> | <p>Confirmed.</p>                                                                                                             | N |
| 78. | <p>Creepage Distance</p> <p>As per specification, we understand that creepage distance shall be 31mm/kV for all outdoor equipment's. However as per volume-2, clause 3.1.12.1.8. minimum creepage distance for insulator are given as 25mm/kV. Please confirm the actual requirement.</p>                          | <p>Creepage distance shall be 31mm/kV for all outdoor equipment's. Please see addendum-1 (volume-2 of 3, (1)).</p>            | Y |
| 79. | <p>"Volume-3, Local Control Cubical for 145kV"</p> <p>We understand that integrated local control cubical is also acceptable for 145kV GIS. Please Confirm.</p>                                                                                                                                                    | <p>Please follow the bidding documents.</p>                                                                                   | N |
| 80. | <p>General</p> <p>We presume that DSLP, Lighting, Cable trench &amp; other associated</p>                                                                                                                                                                                                                          | <p>Confirmed.</p>                                                                                                             | N |

Toul

BR

~~BR~~

JKS

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |   |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---|
|     | works are required to be executed only for the present scope of works and the same are not required for future bays and future areas. Please confirm.                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                   |   |
| 81. | <p>Volume-2, Section-3, Clause No. 3.4.7.13</p> <p>"As per referred clause, "" To reduce the effect of solar gain all SF6 or other types of insulated bus ducts exposed to direct sunlight shall be covered with metallic sun shielding, for part of outdoor installation.""</p> <p>In this regard, if Bidder proves that the temperature rise is within the limits either by calculation (or) based on the result of simulation of temperature rise due to solar flux, then Sun shielding will not be provided.</p> <p>Please confirm whether Bidder's understanding is in order."</p> | Please follow the bidding documents.                                                                                              | N |
| 82. | <p>Volume-2, Section-3, Clause No.3.5.3.23.2 &amp; 3.5.3.24</p> <p>We understand that the type test need not be repeated for 230kV &amp; 132kV GIS, if bidder can substantiate with valid type test reports of similar or higher rated equipment (kV, rated current, short circuit current) issued by any STL laboratory or manufacturer's own testing laboratory or independent testing laboratory witnessed and certified by a representative from STL member laboratory. Please confirm whether bidder's understanding is in order.</p>                                              | Please follow the bidding documents.                                                                                              | N |
| 83. | <p>Volume-2, Chapter 11, Clause No.11.8 - Insulation Monitoring System</p> <p>"As per referred clause, we understand that Insulation Monitoring System need to be supplied under present scope of work while same is not given in BPS.</p> <p>If required, please add a separate line item in the price schedule."</p>                                                                                                                                                                                                                                                                  | As per tender requirement.                                                                                                        | N |
| 84. | <p>Auto-Transformer : Tap Step</p> <p>As per Volume-3, 400/138/33kV 230/132/33kV,230/138/34.5 kV, 132/33 kV, 3-Phase Transformer, Tapping step/Size of Each tap-</p>                                                                                                                                                                                                                                                                                                                                                                                                                    | Tapping step/Size of Each tapping step shall be 1.25% for 400/138/33kV ,230/132/33kV, 230/138/34.5 kV, and 132/33kV transformers. | Y |

Tank

BPS

~~JKG~~

JKG

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                          |   |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---|
|     | ping step is given as 1.25. However as per volume-2, clause 4.7.2.1.1, the same is given as "the high voltage winding in 17 steps of approximately 5/8% each. As the requirements are contradicting, please clarify the actual requirement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                          |   |
| 85. | Volume-2, Section-4 - Clause No. 4.14<br><br>"As per referred clause, we are not envisage<br>a) Oil Storage (Tanks and Bags)<br>b) Oil Treatment Plant<br>c) Oil Insulation Tester (Oil breakdown test)<br>Please confirm. "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Please follow the bidding documents.                                                                     | N |
| 86. | "Volume-2, Section-4 - Clause No. 4.19.1<br>"<br><br>"As per referred clause, ""The following type tests shall be conducted on the first power transformer of in a single FAT schedule:"". Further, as per clause no. 4.19.2 ""The following tests shall be performed on each unit in accordance with IEC Standards 60076-1."" However, as per Vol.1, Section-6, Clause No. 1.3 , type test certificates of the equipment of similar or higher specifications (voltage & capacity) shall be provided which shall be issued by STL member testing laboratories or from manufacturer's own testing laboratory or independent testing laboratory. Test carried out at manufacturer's own testing laboratory or independent testing laboratory must have been witnessed and certified by a representative from STL member testing laboratory.<br><br>In this regard, Valid type test reports shall be submitted as per Vol.1, Section-6. Repetition of type tests are not envisaged. Please confirm." | Please refer to addendum-1                                                                               | Y |
| 87. | Volume-3 - Technical data sheet, 220kV & 132kV XLPE Cable - Longitudinal water tightness & Radial moisture barrier<br><br>"As per referred data sheet, Following two type of layers are asked for 132kV Power cable.<br>a) Longitudinal water tightness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Longitudinal water tightness & Radial moisture barrier shall be provided for 230kV and 132kV XLPE cable. | N |

*Tab*

*BM*

*[Signature]*

*JKS*

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                             |          |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------|
|     | <p>b) Radial moisture barrier</p> <p>However, these layers are not mentioned in the technical specification, VOL-2, section-9, Clause no. 9.10 Cable Specification. In this regard, please check and confirm the requirement of above layers."</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                             |          |
| 88. | <p>"Technical Specification –Section-4, cl.no.4.7.2 On-Load Tap Changers</p> <p>"</p> <p>"As per referred clause, it is mentioned that "" The OLTC shall be installed inside the main tank. Current making and breaking switches [ i.e., diverter switches] associated with the tap selectors or otherwise where combined with tap selectors shall be contained in a tank in which the head of oil is maintained by means of completely independent of that on the transformer itself for Oil type OLTC and the same [ i.e., diverter switches] shall be in vacuum for Vacuum type OLTC. Details of maintaining oil separation, oil levels, detection of oil surges and provision of alarm or trip contacts will be dependent on the design of tap-changer and be to the approval of the Engineer.""</p> <p>However , we shall provide the same as follows:<br/>The position of OLTC is inside the main tank but inside a separate chamber. Hence, Oil in OLTC is separated from the main tank Oil. Please give your acceptance."</p> | <p>Please follow the bidding documents.</p> | <p>N</p> |
| 89. | <p>Specification of Power Transformer, clause.no.4.3.5, Calculations and Tests</p> <p>"In the referred clause, it is mentioned that ""Evidence shall be submitted with the Bid as to the extent to which the Manufacturer has proved, or is able to prove, by test, or by calculation, the ability of the specified Transformers to withstand short circuit. The test is applicable for a reference transformer and calculation is for the offered transformer. calculation, the ability of the specified Transformers to withstand short circuit"".</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p>Please follow the bidding documents.</p> | <p>N</p> |

Toul

BB

~~BB~~

JKG

|     |                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                |   |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|     | We understand that the dynamic short circuit test report as per Vol.1, Section-6, clause no. 1.2 shall be submitted along with the bid. The similarity calculation shall be submitted during design review after award of contract. Please confirm whether bidder's understanding is in order."                                                                                                                       |                                                                                                                                                                                                |   |
| 90. | Volume -2, Section -8, Specification of Auxiliary Power and Control Cables, Clause.No.8.12.4 Trays and Racks<br><br>We propose to lay cables on support angles in outdoor trenches. For control building, cables shall be laid in trays. Please confirm.                                                                                                                                                              | For bay extension work at existing substations, existing LV power and control cable laying method shall be followed for extension work.                                                        | N |
| 91. | General<br><br>Please furnish the standard GA drawings (Plan & Section) for 33kV switchyard.                                                                                                                                                                                                                                                                                                                          | Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required.                                                                         | N |
| 92. | General<br><br>Please confirm if GIS of different makes can be supplied for different voltage level for the proposed switchyard.                                                                                                                                                                                                                                                                                      | Bidders are requested to carefully read the schedule-A of volume-3 of the tender documents regarding GIS bay extension requirement.                                                            | N |
|     | <b>CIVIL queries</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                |   |
| 93. | Tender document, Volume 2 & Price schedule, Schedule 4 Cl.no : 13.1.1.1 & Schedule B4<br><br>As per referred scope, the geotechnical studies and soil investigations are in the Contractor's scope. However in price schedule there is no separate item for the same. Kindly add an item for the same in price schedule.                                                                                              | Sub-soil investigations cost deemed to be included in the quoted bid price.                                                                                                                    | N |
| 94. | Tender document, Volume 2 & Price schedule, Schedule 4 Cl.no : 13.1.1.1 & Schedule - B4 (9J2,10J2,11J2,12J1,13J2,14J2)<br><br>As per referred schedule numbers, the control room modification work is in bidders scope. Kindly provide the existing control room building layout and all other structural layout (foundation layout, beam layout, finishing details, etc..) in order to estimate the quantum of work. | It is the bidder responsibility to collect and asses necessary data.<br>Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required. | N |
| 95. | Tender document, Volume 2 & Price schedule, Schedule 4 Cl.no :                                                                                                                                                                                                                                                                                                                                                        | Cable trench & crossings drawing, Internal road (all                                                                                                                                           | N |

*Toul*

*BR*

*[Signature]*

*[Signature]*

*JKS*

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                           |   |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|     | <p>13.1.1.1 &amp; Schedule – B4</p> <p>Please provide the existing detailed drawing for the following civil works for all the stations.</p> <ol style="list-style-type: none"> <li>1. Cable trench &amp; Crossings drawing</li> <li>2. Internal road (all widths)</li> <li>3. Switchyard drain &amp; crossing</li> <li>4. Pile details</li> <li>5. Fencing details</li> </ol> <p>in order to estimate the quantum of work.</p>                  | <p>widths) and Switchyard drain &amp; crossing will be finalized during execution stage. For pile and fencing details, please follow the bidding document.</p>                                                                                                                                                                                            |   |
| 96. | <p>Tender document, Volume 2 &amp; Price schedule, Schedule 4 Cl.no : 13.1.1.1</p> <p>Please provide the existing Layout for all the stations.</p> <ol style="list-style-type: none"> <li>1. Existing structural arrangement layout with cross section.</li> <li>2. Existing Cable trench layout</li> <li>3. Existing Gravel spreading layout</li> <li>4. Existing drainage layout.</li> </ol> <p>in order to estimate the quantum of work.</p> | <p>1-3: Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required.</p> <p>4. 4. It is the bidder responsibility for assessing the existing drainage layout.</p> <p>Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required.</p> | N |
| 97. | <p>Tender document, Volume 2 &amp; Price schedule, Schedule 4 Cl.no : 13.1.1.1</p> <p>Please provide the following details for all the stations.</p> <ol style="list-style-type: none"> <li>1. Soil investigation report</li> <li>2. Contour survey</li> <li>3. Existing FGL details &amp; proposed FGL details</li> <li>4. High Flood Level</li> </ol> <p>in order to estimate the quantum of work.</p>                                        | <p>It is the bidder responsibility to collect and asses necessary data. FGL will be finalized as per bidding specification in execution stage.</p>                                                                                                                                                                                                        | N |
| 98. | <p>Tender document, Volume 2, Section 14 Cl.no : 14.6</p> <p>We presume that, the galvanisation thickness for structures is 610g/sq.m for all proposed substations.</p> <p>Please confirm.</p>                                                                                                                                                                                                                                                  | <p>Please follow the bidding document.</p>                                                                                                                                                                                                                                                                                                                | N |
| 99. | <p>Tender document, Volume 2 &amp; Price schedule, Schedule 4 Cl.no : 13.1.1.1 &amp; Schedule – B4</p>                                                                                                                                                                                                                                                                                                                                          | <p>It is the bidder responsibility to collect and asses necessary data.</p> <p>Bidders are requested to follow tender requirements</p>                                                                                                                                                                                                                    | N |

*Tauh*

*[Signature]*

*[Signature]*

*J K S*

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                      |   |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|      | <p>As dismantling is in the bidders scope, please provide the existing detail drawings for all stations</p> <ol style="list-style-type: none"><li>1. Tower structure and foundation details for all voltage levels</li><li>2. Gantry beam structure for all voltage levels</li><li>3. Equipment support structure and their foundation for all voltage levels (LA, CT, CVT, BPI, ISO, WT)</li></ol> <p>in order to estimate the quantum of work.</p>                                             | <p>and tender drawings carefully and conduct site visits if required.</p>                                                                                                                                                                                                                                            |   |
| 100. | <p>Tender document, Volume 2 Drawing<br/>Drawing: Faridpur 230/132/33kV Grid Substation Pg- 602/635</p> <p>For the mentioned station, dismantling of abandoned tower is in bidders scope, kindly provide the tower structure and foundation details in order to estimate the quantum of dismantling works.</p>                                                                                                                                                                                   | <p>It is the bidder responsibility to collect and asses necessary data.<br/>Bidders are requested to follow tender requirements and tender drawings carefully and conduct site visits if required.</p>                                                                                                               | N |
| 101. | <p>Tender document, Volume 2 &amp; Price schedule, Schedule 4 Cl.no : 13.1.1.1 &amp; Schedule - B4 (2 bay extension at Pabna- 8L1)</p> <p>As per referred schedule number, land development is in bidders scope for Pabna Bay extension work and it is not mentioned in any other station. We assume that we will be provided with a levelled land and no land development is required in any other station except for Pabna Bay extension.<br/>Pls confirm if our understanding is correct.</p> | <p>Your understanding is correct for pabna substation. But for other substations filled land will be handed over. But there may be some undulation present at site. Bidder should level the existing ground (by cutting or filling, if necessary). Cost of which shall deem to be included within the bid price.</p> | N |
| 102. | <p>Tender document, Volume 2, Section 13 Cl.no : 13.1.3.26</p> <p>In referred clause, the reinforcement grade is mentioned as Fe 415. We propose to use higher grade of Fe500 in design and supply instead of Fe 415, as it is not readily available in market. Please confirm.</p>                                                                                                                                                                                                              | <p>Rebar grade 415 is minimum. Higher grade can be used.</p>                                                                                                                                                                                                                                                         | N |

*Paul*

*[Signature]*

*[Signature]*

*[Signature]*