

ANNEXURE-A

QUALIFICATION REQUIREMENT OF BIDDER FOR SUPPLY, ERECTION, TESTING AND COMMISSIONING OF 765/400 kV AIS SUBSTATION PHAGI (JAIPUR)

Qualification of bidder will be based on meeting the minimum pass/fail criteria specified in Part-A below regarding the Bidder's technical experience and financial position as demonstrated by the Bidder's responses in the corresponding Bid Schedules. The bidder shall also be required to furnish the information specified in Part-B in their bid.

Technical experience and financial resource of any sub-contractor/ subsidiary/ associate group or company shall not be taken into account in determining the Bidder's compliance with the qualifying criteria. The bid can be submitted by an individual firm or a Joint Venture of not more than two firms (Specific requirements for Joint Ventures are given under Clause 1.3 below).

The Owner may assess the capacity and capability of the bidder, to successfully execute the scope of work covered under the package within stipulated completion period. This assessment shall inter-alia include (i) document verification; (ii) bidders work/manufacturing facilities visit; (iii) manufacturing capacity, details of works executed, works in hand, anticipated in future & the balance capacity available for the present scope of work; (iv) details of plant and machinery, manufacturing and testing facilities, manpower and financial resources; (v) details of quality systems in place; (vi) past experience and performance; (vii) customer feedback; (viii) banker's feedback etc.

1.0 PART-A

1.1 TECHNICAL EXPERIENCE

1. The bidder shall have an established production line for manufacturing of 765 kV Transformers in India and who have designed, manufactured, tested, supplied and commissioned 400 kV or above voltage level Auto Transformers in India. The bidder (including that of their parent company/ collaborator, if applicable) shall have experience in design, fabrication/ manufacture of 715 kV or above voltage level Auto Transformer, who must have designed, manufactured, type tested (as per relevant IS/IEC/ Eq. Standards) and supplied at least one (1) bank (consisting of 3 single phase units of at least 166 MVA each). The same should have been in satisfactory operation for at least two (2) years as on the date of bid opening.
2. The bidder shall have the experience of substation design, erection, procurement and construction of EHV substations on turnkey basis. The bidder should have,
 - a. Experience of supply, installation and commissioning of at least 1 No. 400 kV or above class AIS switchyard/substation having at least four (4) circuit breaker bays (comprising of 1 No. Circuit Breaker, 2 Nos. of disconnectors, 3 Nos. of Single Phase CTs for controlling line/ transformer/shunt reactor bay) during last 7 (Seven) years in India as on the date of bid opening and which should be under satisfactory operation for at least 2 years as on the date of bid opening.
 - b. Capability of design, engineering of 765 kV AIS Switchyard and executed/ executing at least 1 No. of 765 kV AIS Switchyard in India as on the date of bid opening.

3. Further, the bidder shall supply outdoor switchyard equipments i.e. 765 kV Shunt Reactor, 420 kV Shunt Reactor, 765 kV Circuit Breakers, CT, CVT, Surge Arrestors, Disconnectors and Substation Automation System & Protective Relays from:
 - a. The manufacturer of 715 kV or above voltage level Shunt Reactor, who must have designed, manufactured, type tested (as per relevant IS/IEC/ Eq. Standards) and supplied at least one (1) bank (consisting of 3 single phase units of at least 80 MVAR each). The same should have been in satisfactory operation for at least two (2) years as on the date of bid opening.
 - b. The manufacturer of 400 kV or above voltage level Shunt Reactor, who must have designed, manufactured, type tested (as per relevant IS/IEC/ Eq. Standards) and supplied at least 50 MVAR capacity (or equivalent capacity in banks of 3 single phase units) with the type of cooling offered. The same should have been in satisfactory operation for at least two (02) years on the date of bid opening.
 - c. The manufacturer(s), who should have designed, manufactured, type tested (as per relevant IS/IEC/ Eq. Standards) and supplied the respective equipment i.e. Circuit Breaker, Current Transformer (CT), CVT, Surge Arresters and Disconnectors of 715kV or above voltage level which must have been in satisfactory operation for at least 2 (two) years as on the date of bid opening.
 - d. The manufacturer, who should have designed, manufactured, type tested and supplied IEC-61850 based automation system/solution (consisting of bay control & protection units, application software) for at least 2 Nos. of EHV substations of 400 kV or above voltage level (each having total circuit breaker bays not less than 5 Nos.) which must have been in satisfactory operation for at least 2 (two) years in India as on the date of bid opening.
4. The bidder may opt to supply indigenously manufactured 765 kV Auto Transformers, Shunt Reactor, 420 kV Shunt Reactor, 765kV Circuit breakers, Current Transformers, CVTs, Surge Arresters and Disconnectors provided that the manufactured equipment from established production line in India is based on technological support of parent company/collaborator for the respective equipments which are type tested (as per relevant IS/IEC/ Eq. Standards) as on the date of bid opening and respective parent company/ collaborator as manufacturer(s) fulfill the criteria specified at Clause No. 1 and 3 (a, b, c). The respective equipment bidder/ manufacturer shall provide/ fulfill/ furnish/ submit:
 - a. Legally enforceable undertaking (jointly with the parent company /collaborator(s) as per the enclosed format Schedule-G1 of bidding documents) to guarantee quality, timely supply, performance and warranty obligations as specified for the equipment(s) to be manufactured and supplied from his works in India.
 - b. A confirmation letter from the parent company/collaborator, along with the bid, stating that parent company/collaborator shall furnish performance guarantee for an amount of 10% of the cost of such equipment(s). This performance guarantee shall be in addition to Contract Performance Guarantee to be submitted by the Bidder.
5. The bidder shall furnish undertaking (as per the enclosed format Schedule-G2 of Bidding Documents) from respective equipment manufactures and parent company/ collaborator (if

applicable) that erection, testing and commissioning of 765kV Auto Transformer, 765 kV and 420 kV Shunt Reactor, 765 kV Circuit Breaker, CT, CVT, Surge Arresters and Disconnectors shall be carried out under their supervision and after sales services and spares shall remain available for at least 15 (fifteen) years from the date of supply.

6. The Bidder or his proposed manufacturer should have repair and maintenance facilities in India for 765kV Auto Transformer, Shunt Reactors, Circuit breakers, Current Transformers, CVTs, Surge Arresters and Disconnectors to be supplied. The repair and maintenance facilities shall be such that the equipment can be repaired and maintained without necessitating it to be taken outside the country. In case the Bidder or his proposed manufacturer is not having these facilities presently, he shall either:

a) Establish these facilities before commissioning of the equipment, towards which he shall submit a legally enforceable undertaking (as per the enclosed format Schedule-G3 of Bidding Documents) along with the bid.

OR

- b) Submit Joint undertaking with an Indian manufacture(s) (who has/have been in the business or manufacture of 400kV class equipment) for making available/establishment of these facilities before commissioning of the equipment. The joint undertaking shall be valid for at least fifteen (15) years. The Joint Undertaking (as per the enclosed format Schedule-G4 of Bidding Documents) shall be submitted along with the bid.

1.2 FINANCIAL POSITION

For the purpose of this particular bid, bidders shall meet the following minimum criteria:-

a)	Minimum Average Annual Turnover *(MAAT) for best three financial years out of last five financial years * Annual total income as incorporated in the profit & loss account	Rs. 442.80 crores
b)	Bidder shall have liquid assets (L.A.) or/and evidence of access to or availability of credit facilities	Rs. 73.80 crores

In case bidder is a holding company, MAAT & LA referred to in Clause 1.2 (a) & (b) above shall be that of holding company only (i.e. excluding its subsidiary/group companies). In case bidder is a subsidiary of a holding company, MAAT & LA referred to in clause 1.2 (a) & (b) above shall be that of subsidiary company only (i.e. excluding its holding company).

1.3 JOINT VENTURE FIRMS:

1. In case a bid is submitted by a Joint Venture (JV) [up to two firms only as partners], Joint venture shall meet collectively all the requirement of Clause No. 1.1 & 1.2 above. The figure

of average annual turnover and liquid assets/credit facilities for each of the partners of the JV shall be added together to determine the JV's compliance with the minimum qualifying criteria set out in Clause 1.2 above. However, for a JV to be qualified, the partner(s) of JV must also meet the following minimum criteria:

- i) The lead partner shall meet Clause No. 1.1 (1 or 2) as above and not less than 50% of the minimum criteria given at Clause 1.2 above.
- ii) The other partner
 - a) Shall meet not less than 25% of the minimum criteria given at Clause No. 1.2 and,
 - b) Shall meet remaining qualifying requirements for collective fulfillment of Clause No. 1.1 above.
- iii) A firm can be a partner in only one joint venture; bid submitted by Joint Venture including the same firm as partner will be rejected.

Failure to comply with these requirements as above will result in rejection of the joint venture's bid.

- 2. Bids submitted by a Joint venture of firms as partners shall comply with following requirements.
 - a) The bid shall include all the information listed in Part-B, Clause 2.1 (a) to (l) for each Joint venture partner and 2.1 (m) for the Joint venture.
 - b) One of the partners shall be nominated as Lead Partner, and his authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatory of the other partner.
 - c) The bid may be signed by the lead partner of the Joint Venture and in case of successful bid the "Form of Joint Venture agreement" shall be signed by all the partners so as to be legally binding on both the partners.
 - d) The lead partner shall be authorized to incur liabilities and receive instructions for and on behalf of other partner of the joint venture and the entire execution of the contract including payment shall be done exclusively with the lead partner as per Performa enclosed.
 - e) Both partners of the Joint venture shall be liable jointly and severally for the execution of the contract in accordance with the contract terms and a statement to this effect shall be included in the authorization mentioned under (c) above as well as in the Bid Form and in the Contract Form (in case of successful bid).
 - f) A copy of the agreement entered into by the Joint venture partners duly attested by Notary Public shall be submitted with the bid.
 - e) EMD, security deposit and performance guarantee of a Joint Venture be in the name of Lead Partner or in the name of the Joint venture submitting the bid.

2.0. PART-B

- 2.1. To be qualified for award, bidders shall provide satisfactory evidence to the owner of their capability and adequacy of resources to carry out the contract effectively. Bids shall include the following information:-
- a) Copies of original documents defining the constitution or legal status, place of registration and principal place of business, written power of attorney of the signatory of the bid to commit the bidder.
 - b) Total annual turnover of supply of materials and equipment of similar nature over the last 5 years.
 - c) Reports on the financial standing of the bidder including profit and loss statements, balance sheets and auditors reports of the past 5 years and an estimated financial projection for the next two years.
 - d) Evidence of access to lines of credit and availability of other financial resources.
 - e) Performance as prime contractor for the supply of materials and equipment of similar nature over the last 5 years and details of other works in hand and contractual commitments.
 - f) Details in support to have adequate substation design infrastructure and experienced qualified engineers and staff associated with design, procurement and progress monitoring work.
 - g) Details to have all infrastructure, tools and tackles, testing equipment, experienced project manager and sufficient qualified and experienced erection engineers and staff etc. to undertake the job at site alongwith quality control measurements etc. and complete the same within prescribed time schedule.
 - h) Description of the plan for carrying out the work.
 - i) The qualification and experience of key personnel proposed for carrying out the work. The Project manager shall have atleast 15 years of experience in executing such contract of comparable nature including not less than 5 years as manager. C.V. of Project Manager shall be enclosed duly authenticated by authorized signatory.
 - j) Proposal for Sub-vendors/ Sub contracting elements for the supply of materials/ Works in the relevant attachment. The required experience for the Sub-contractor/ Sub-Vendor for this project is as under:

Experience of Sub-Contractor for Works:

Electrical Works:

- i) The sub-contractor (s), if envisaged/ proposed shall have experience of erection, testing and commissioning of atleast 2 Nos. 400 kV and above voltage AIS bays (Transformer and Line bay one each) including Structures, Transformer, Equipments, C&R Panel erection and Cable laying & terminations etc. in last five years and are under satisfactory operation for atleast 6 months as on the date

of bid opening. A certificate of successful completion and satisfactory operation issued by project executing agency/ End-User/Owner shall be submitted as documentary evidence.

- ii) The sub-contractor as above shall have experienced manpower to carry out the works assigned to him in the project alongwith the required tools and tackles. Supporting document in this regard shall be submitted with the bid.

Civil Works:

- i) The sub-contractor (s), if envisaged/ proposed shall have experience of Civil Works for atleast 1 No. 400 kV or above level AIS Substations including Equipment and Structure foundations, Transformer foundation, Trenches, Control Room etc. in last five years and is successfully completed these civil works for atleast 6 months prior to the date of bid opening. A certificate of successful completion issued by project executing agency/ End-User/Owner shall be submitted as documentary evidence.
- ii) The sub-contractor as above shall have experienced manpower to carry out the works assigned to him in the project alongwith the required tools and tackles. Supporting document in this regard shall be submitted with the bid.

Experience of Sub-Vendor for Supplies:

- i) The sub-vendors for the major items/ equipments/element (costing more than 5% of the overall cost of supplies quoted for the project and not covered/ mentioned under the approved vendor list/ as qualification item), the bidder shall propose name of proposed sub-vendors for each of such items alongwith their past experience list, test certificates, satisfactory operation certificates, quality certification/ plans etc. to show the adequacy of capability and capacity to make supplies under this project.
 - k) Authority to seek reference from the Bidder's banks.
 - l) Information regarding bidders anticipated ownership change (if such a change is anticipated, the scope and effect thereof shall be defined) during the period from bid submission to two years after commercial operation defined as successful completion of commissioning and acceptance by owner.
 - m) Proposal of manufacturing methods and schedule in sufficient detail to demonstrate the adequacy of the bidder's proposals to meet the technical specification and the completion schedule.
- 2.2. The above stated requirements are a minimum and the owner reserves the right to request for any additional information. Nigam also reserves the right to reject the proposal of any Bidder; if in the opinion of the owner the qualification details are incomplete or the Bidder is found not qualified to satisfactorily perform the contract then his price bid (part II) shall not be opened.
- 2.3. Nigam reserves right to waive minor deviations if they do not materially affect the capability of the Bidder to perform the contract.

- 2.4. Notwithstanding anything stated as above, the Nigam reserves the right to assess the bidder's capabilities and capacity in terms of concurrent project commitments, available and deployable resources etc. to perform the contract, should the circumstances warrant such assessment in the overall interest of the Nigam.
- 2.5. Nigam does not bind itself to accept the lowest or any of the bids and reserves the right to accept any bid or reject any or all bids without assigning any reasons thereof.