

VARIOUS TECHNO-COMMERCIAL CLAUSES FOR STANDARD BIDDING DOCUMENTS

Sl. No.	Particulars	As per existing AEGCL Bid Documents	Remarks/ To be incorporated
1	EMD	2% of tender value. The bid security shall be valid for thirty days (30) beyond the original validity period of the bid.	Clause is in line with Assam Public Procurement Rules and PGCIL.
2	PERFORMANCE SECURITY	The Supplier shall have to deposit to the extent of 10% of the total value of the order (or to the extent of 20% of the total value of order, in case of acceptance of Abnormally Low Bid), within maximum 15 days of receipt of notification of award and such security deposits shall be valid up to 60 days beyond the warranty period.	In case of bids quoting abnormally low price, GoA, Finance (Establishment -B) Dept. order dated 30.07.2024/PWD Letter No. CE/DEV/TB/1377/20 23-24/06 dated 03.04.2025 Annexure-IV to be followed.
3	TENDER FEE	0-0.02% of tender value (up to Rs. 50 Cr, upper limit: Rs. 20,000.00) (Above 50 Cr, upper limit: Rs. 30,000.00)	As per Office Memorandum, GoA.
4	BID VALIDITY	Bids shall remain valid for the period of 180 days after the bid submission deadline date prescribed by the Purchaser.	Clause is in line with PGCIL.
5	ELIGIBLE BIDDERS	Subject to the fulfilling the Qualifying Criteria, a Bidder must have Experience as a contractor/Partner in a JV/Manufacturer in "Scope of Works". When the bidder is a firm, the names and address of the partners should be indicated and a copy of the certificate of registration with the concerned Registrar of firms should be enclosed with the Bid. When the bidder is a Company, the company registration document along with	Clause is in line with PGCIL.

		Memorandum of Association should be submitted. When the bidder is an individual carrying on business in a firm's name, the tender should be submitted by the owner of the firm, who may describe himself as carrying on business in the firm's name. When the bidder is a Joint Venture (JV) of two or more firms as partners, all partners shall be jointly and severally liable. The JV shall legally authorize one of the partners as the lead partner for the purpose of submitting the bid, incur liabilities; receive payments and instructions on behalf of the others. A copy of the notarized JV agreement, executed on non-Judicial stamp paper, shall be submitted with the bid. Registered JV agreement shall be submitted when asked by the Purchaser. However, in case of successful bid, the agreement shall be signed by all the partners, so as to be legally binding on all the partners.	
6	TECHNICAL EXPERIENCE	Experience having successfully completed similar works during last 7 years ending last day of the month previous to the one in which applications are invited should be either of the following: a. Three similar completed works costing not less than the amount equal to 40% of the estimated cost. Or b. Two similar completed works costing not less than the amount equal to 50% of the estimated cost. Or c. One similar completed work costing not less than the amount equal to 80% of the estimated cost.	Clause is in line with PGCIL.

		Definition of "Similar work" should be clearly defined.	
7	FINANCIAL EXPERIENCE	As per CVC guideline: (1) Historical Financial Performance (FIN-1): Submission of audited balance sheets or other financial statements acceptable to the Purchaser, for the last 3 (three) financial years to demonstrate the current soundness of the Bidders financial position and its prospective long-term profitability. As a minimum, a Bidder's net worth calculated as the difference between total assets and total liabilities should be positive. (last 3 financial years must be specifically mentioned) (2) Minimum average annual turnover (FIN-2): (a) Minimum average annual turnover for turnkey contract is to be calculated as "(1.5XTender Value)/No. of years in completion time" calculated as total certified payments received for contracts in progress or completed, within the last 3 financial years. Financial Statements for last 3 (three) financial years will be considered for calculation of turnover (should be CA/CMA certified). (If number of completed year is less than 1 year, it will be treated as 1 year) (b) For any other contract minimum average annual turnover is to be calculated as 30% of tender value calculated as total certified payments received for contracts in progress or completed, within the last 3 financial years. Financial Statements for last 3 (three) financial years will be considered for calculation of turnover (should be CA/CMA	Clause is in line with PGCIL and CVC guidelines.

	certified) subject to the fulfilment of the experience criteria mentioned in the MOM dated 5th April' 2019. As per CVC guideline: (3) Cash Flow (FIN-3): Minimum cash flow requirement is to be calculated as "(3.5XTender Value)/No. of months in completion time." (4) Current Contract Commitment (FIN-4): The bidder has to submitted detailed list of current contract commitment. FIN-4 must contain data regarding "Average Monthly Requirements (Value of outstanding works / Estimated completion in months)". Using Forms FIN-3 and FIN-4, Section 4 (Bidding Forms), the bidder (Single Entity/JV) must demonstrate that the financial resources of bidder (Single Entity/JV), defined in FIN-3, less the bidder's (Single Entity/JV) financial obligations for its own current contract commitments defined in FIN-4, meet or exceed the total requirement of "(3.5XTender Value)/No. of months in completion time." The Bidder (Single Entity/JV) must demonstrate access to, or availability of, financial resources such as liquid assets, unencumbered real assets, lines of credit, and other financial means, other than any contractual advance payments to meet the cash-flow requirement, in the prescribed format of ICAI (CA Certified). In case of JV: Lead partner at least 40% of Turnover and cash flow requirement, all other partners at 25% of Turnover and cash flow requirement	
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8	TIME FOR COMMENCEMENT AND COMPLETION	For the purpose of determining the completion time of the Works, the date on which the Contractor signs the Contract Agreement OR the date, 15 days from the issue of the LoA/NoA, whichever is earlier shall be taken as Commencement Date of the contract. Completion as specified from the date of commencement.	May be as per existing AEGCL's clause.
9	LD CLAUSE	If the Contractor fails to attain Completion of the Works within the Time for Completion or any extension thereof as per bid clause, the Contractor shall pay to the Purchaser liquidated damages at the rate of 1 % (one percent) of the total Contract Price per week or part thereof delay. The aggregate amount of such liquidated damages shall in no event exceed 10% (ten percent) of the total contract price.	It has been recommended that: If the Contractor fails to attain Completion of the Works within the Time for Completion or any extension thereof as per bid clause, the Contractor shall pay to the Purchaser liquidated damages at the rate of 0.5 % (half percent) of the total Contract Price per week or part thereof delay. The aggregate amount of such liquidated damages shall in no event exceed 10% (ten percent) of the total contract price.

10	PAYMENT TERMS	<u>Progressive payments for supply items:</u> 1. Within 60 (sixty) days from the date of submission of the invoice against supply, not more than 80% (Eighty percent) payment of the total supply invoice value would be made, on receipt and acceptance of materials in full and good conditions (subject to availability of fund). However, GST amount on invoice would be paid 100% or as per Govt. Rules. 2. Maximum numbers of invoices/bills is to be determined as per the volume of the work. 3. Remaining 20% (Twenty percent), retention amount of that item would be released subject to fulfilment of the following conditions - (a) Next 10% of the supply amount of that supply item would be payable on completion of 100% of the total erection, testing, commissioning works of that particular item. (b) within 60 (sixty) days after receipt of invoice out of remaining 10% of the supply amount 5% would be paid upon issue of the Completion Certificate and balance 5% upon issue of the Operational Acceptance Certificate as per clause 25, 26 & 27 of GCC, which should be certified by the Project Authority. <u>Progressive payments for Erection Works:</u> 1. Within 60 (sixty) days from the date of submission of invoice against foundation, erection & civil works, not more than 90% (ninety percent) of the total verified invoice would be made. However, GST amount on	As per BOD approval vide Resolution No. 30, dated 24.02.2026.
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		invoice would be paid 100% or as per Govt. Rules 2. Maximum numbers of invoices/bill is to be determined as per the volume of the work. 3. The 1st progressive erection invoice/ bill would be entertained on completion of 30% of total erection cost of the project. 4. Within 60 (sixty) days after receipt of invoice out of remaining 10% of the supply amount 5% would be paid upon issue of the Completion Certificate and balance 5% upon issue of the Operational Acceptance Certificate as per clause 25, 26 & 27 of GCC, which should be certified by the Project Authority. In the event that the Employer fails to make any payment on its respective due date, the Employer shall not pay any interest to the Contractor.	
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Note: Any special conditions proposed to be incorporated in the bid documents or any modifications required in the above-mentioned clauses shall be placed before the Board for approval.

TECHNICAL EXPERIENCE CRITERIA FOR SUBSTATION AND TRANSMISSION LINE STANDARD BIDDING DOCUMENT

PGCIL Ref: (1) 400kV AIS New Substation Package SS98T for (a) Construction of 400/220/132kV Amarpatan S/S, b) Extension of 132kV Amarpatan(MPPTCL) S/S, c) Extension of 132kV Satna-II S/S, d) Extension of 132kV Rampur-Baghelan S/S and e) Extension of 132kV Unchehra S/S associated with Development of Intra-State Transmission System for evacuation of 1230MW power (MPPMCL portion) through STU network from proposed 2X800MW thermal power project of M/s Mahan Energen Ltd. (MEL) through TBCB route

(2) Construction of 400kV Interconnection Line between Kudankulam Nuclear Power Plant (KKNPP) 1,2 & KKNPP 3,4 at NPCIL, Kudankulam Site

AEGCL Ref: Construction of 220/132KV, 2X160 MVA AIS Substation at Morigaon along with associated transmission lines (18 Route Kms of Stringing reqd.)

AS PER PGCIL	AS PER AEGCL	REMARKS
Bidder must have erected, tested and commissioned as a prime contractor* under a single contract, at least two (2) nos. AIS [^] Circuit Breaker equipped bays of 345 kV or above voltage level in one Substation or switchyard during last seven (7) years and these bays must be in satisfactory operation# as on the Originally scheduled last date of bid submission.	<u>PART-A (For 220/132 kV Substation)</u> The tenderer must have designed, supplied, erected, tested & commissioned including Civil works complete at least One (1) no. AIS/GIS of 220 KV or above voltage class; The above credential shall be from any state/ central power utility and the same should have been in successful operation for at least one year within last 7 (Seven) years as on the originally scheduled date of bid opening.	Experience criteria for construction of substation may be as per existing AEGCL clause, as the same has been formulated taking into account the project-specific requirements, prevailing site conditions, surrounding constraints, and AEGCL's previous experience in implementing similar substation projects.
The bidder shall have successfully completed physical construction of transmission line project(s) involving tower foundation, erection and stringing of not less than	<u>PART-B (Associated Transmission Lines)</u> The tenderer shall have executed Turnkey contracts involving design, supply, tower foundation, erection	Experience criteria for SBD may be modified as: The tenderer shall have executed Turnkey contracts involving design, supply, tower foundation,

following cumulative route length of 345 kV S/C or 345kV D/C or higher voltage transmission line as a prime contractor or as a partner in a joint venture+ within the last seven (07) years as on the originally scheduled date of bid opening. Route length of transmission lines covered in the package: 03 kms As per actual route length rounded off to nearest higher integer	and stringing; and shall have: Successfully commissioned at least 10 ckt km of length of 220kV or above voltage level in a single project over a period of last 7 years, The above work should have been under successful operation for a minimum period of one year reckoned from the date of bid submission.	erection and stringing; and shall have: Successfully commissioned at least 25% of route length (considered in the tender) of 220kV or above voltage level in a single project over a period of last 7 years, The above work should have been under successful operation for a minimum period of one year reckoned from the date of bid submission.
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TECHNICAL EXPERIENCE CRITERIA & SPECIFICATIONS FOR HTLS STANDARD BIDDING DOCUMENT

Ref: PGCIL Bid for Reconductoring Package OH01: "Reconductoring of existing Lara-I – Raigarh (Kotra) 400kV D/c line with twin HTLS conductor with minimum capacity of 2100MVA per ckt at nominal voltage associated with "Schemes to resolve high loading on Lara-I -Raigarh (Kotra) 400kV D/c line"

AS PER PGCIL: 1.1 Technical Experience 1.1(a) The Bidder should have manufactured, tested and supplied at least one hundred (100) km of High temperature low sag (HTLS) conductor of same technology as that of the conductor being offered <i>in this package having minimum *thirty seven (37) number of strands or 200 sq. mm. aluminum cross section area</i> in last Seven(7) years as on the originally scheduled last date of bid submission (soft copy) i.e. 04/08/2025 and the same should have been in satisfactory operation\$ for a period of at least one (1) year as on the originally scheduled last date of bid submission (soft copy) mentioned above. OR	COMMITTEE RECOMMENDATIONS: May be modified as follows: 1.1 Technical Experience 1.1(a) The Bidder should have manufactured, tested and supplied at least one hundred (100) km of High temperature low sag (HTLS) conductor of same technology (as that of the conductor to be offered <i>for this bid as per bid specifications</i>) in last Seven(7) years as on the originally scheduled last date of bid submission and the same should have been in satisfactory operation for a period of at least one (1) year as on the originally scheduled last date of bid submission. OR
AS PER PGCIL: 1.1(b) The Bidder should have manufactured, tested and supplied at least one hundred (100) km of High temperature low sag (HTLS) conductor of same technology as that of the conductor being offered <i>in this package having minimum *thirty seven (37) number of strands or 200 sq. mm. aluminum cross section area</i> in last Seven(7) years as on the originally scheduled last date of bid submission (soft copy) mentioned above and the same should have been in satisfactory operation\$ as on the originally scheduled last date of bid submission (soft copy) mentioned above.	COMMITTEE RECOMMENDATIONS: May be modified as follows: 1.1(b) The Bidder should have manufactured, tested and supplied at least one hundred (100) km of High temperature low sag (HTLS) conductor of same technology (as that of the conductor to be offered <i>for this bid as per bid specifications</i>) in last Seven(7) years as on the originally scheduled last date of bid submission and the same should have been in satisfactory operation as on the originally scheduled last date of bid submission.

Note: In case of clause 1.1(b) above, the warranty obligations in terms of 10% of the ex-work cost of the HTLS conductor for additional period of two (2) years over and above the warranty period as specified in the bidding documents shall be applicable. OR	Note: In case of clause 1.1(b) above, the additional warranty obligations in terms of 10% of the ex-work cost of the HTLS conductor for additional period of two (2) years over and above the warranty period as specified in the bidding documents shall be applicable. OR
AS PER PGCIL: 1.1(c) The Bidder, not meeting the qualification requirements stipulated at para 1.1(a) or 1.1(b) above, can also submit bid as a Licensee of a Licensor meeting the requirement stipulated at para 1.1(a), provided that:- i) The Bidder/Licensee has manufactured, tested and supplied at least cumulative one thousand (1000) km of ACSR/ AAAC/ ACAR/ AACSR/ AL59 conductor having at least same or more number of strands as that of the conductor being offered in the package during last seven (7) years as on the originally scheduled last date of bid submission (soft copy) mentioned above and	COMMITTEE RECOMMENDATIONS: No Change. Same as PGCIL
AS PER PGCIL: ii) The Bidder/Licensee should have established manufacturing facility & developed High temperature low sag (HTLS) conductor of same technology as that of the conductor being offered <i>in the package having minimum thirty seven *(37) number of strands or 200 sq. mm aluminum cross section area</i> and should have successfully carried out following tests as on the originally scheduled last date of bid submission (soft copy) mentioned above:-	COMMITTEE RECOMMENDATIONS: May be modified as follows: ii) The Bidder/Licensee should have established manufacturing facility & developed High temperature low sag (HTLS) conductor of same technology as that of the conductor to be offered <i>for this bid as per bid specifications</i> and should have successfully carried out following tests as on the originally scheduled last date of bid submission:- A) On complete Conductor:

A) On complete Conductor: DC resistance test on stranded conductor UTS test on stranded conductor at ambient & at designed elevated temperature (minimum 150 Deg C design temperature).	DC resistance test on stranded conductor UTS test on stranded conductor at ambient & at designed elevated temperature (minimum 150 Deg C design temperature).
AS PER PGCIL: B) On Conductor Strand/ core: Heat resistance test on Aluminium Alloy strands (not applicable for annealed aluminium), Torsion and Elongation tests on core strands#/composite core# Breaking load test on core strands#/ Composite core# and Aluminium#/ Aluminium Alloy# strands Conductivity test on Aluminium#/ Aluminium Alloy# strands Glass transition temperature test (For composite core only) Flexural Strength test (For composite core only) # as the case may be Note: The tests indicated at B) above should have been carried out by the Bidder/Licensee on their own or by their supplier of aluminium alloy strands, core/ core strands.	COMMITTEE RECOMMENDATIONS: No Change. Same as PGCIL.

AS PER PGCIL:

iii) The Bidder/Licensee shall furnish a legally enforceable joint undertaking by the licensor along with the Licensee in its bid (Form enclosed at Section-VI, Sample Forms & Procedures, Volume-I of bidding documents) to guarantee following requirement: -

a) Any design undertaken by the Licensee shall be approved by the Licensor.

b) Manufacturing by the Licensee shall be done with the approval of the Licensor under a quality assurance programme approved and monitored by the Licensor.

c) In addition to the Contract Performance Security to be furnished by the Licensee, the Licensor shall furnish back up performance security in the form of bank guarantee for 5% of the Ex-works cost of the HTLS conductor as per format provided in the bid documents for successful performance of HTLS conductor to be manufactured and supplied by the Licensee under the contract.

d) The Licensor must guarantee sequential and timely supply of materials and submission of technical information and data as desired by the Employer so as to meet the overall construction schedule and

e) The agreement between the Licensee and the Licensor (copy to be submitted along with the bid) shall be valid for a period of at least two (2) years after the guarantee period of equipment and materials under supply is over.

COMMITTEE RECOMMENDATIONS:

No Change. Same as PGCIL.

AS PER PGCIL: v) Bidders participating individually as the Licensee should meet the qualification requirement stipulated at para 1.1d) or 1.2. Note: In case of clause 1.1 (c) above, the Bidder participating as a Licensee shall provide warranty obligations in terms of 10% of the ex-work cost of the HTLS conductor for additional period of two (2) years over and above the warranty period as specified in the bidding documents.	COMMITTEE RECOMMENDATIONS: No Change. Same as PGCIL.
AS PER PGCIL: 1.1 (d) Erection Experience (i) The bidder should have Successfully completed stringing <i>of not less than 19 km* for Package OH01 of cumulative route length of transmission lines of 345/400 kV</i> or higher voltage class as a prime contractor or as a partner in ⁺ JV within the last Seven (7) years as on the originally scheduled last date of bid submission. +Note: In case the bidder has executed the work under a contract that had been awarded on a JV wherein the bidder was one of the partners, the experience of the bidder shall be considered limited to the scope executed by the bidder as a partner under the said contract. <i>(Route length in ref package=18 Kms)</i>	COMMITTEE RECOMMENDATIONS: May be modified as follows: 1.1 (d) Erection Experience (i) The bidder should have Successfully completed <i>cumulative</i> stringing <i>of not less than 25% kms of route length of transmission lines of 132 kV (project specific/priority)</i> or higher voltage class as a prime contractor or as a partner in +JV within the last Seven (7) years as on the originally scheduled last date of bid submission. +Note: In case the bidder has executed the work under a contract that had been awarded on a JV wherein the bidder was one of the partners, the experience of the bidder shall be considered limited to the scope executed by the bidder as a partner under the said contract.
AS PER PGCIL: 1.2 In case, the Bidder, do not meet the Erection Experience criteria stipulated at para 1.1 (d) above on its own, the bidder should have in its bid, propose a Subcontractor meeting the above criteria.	COMMITTEE RECOMMENDATIONS: No Change. Same as PGCIL.

AS PER PGCIL: 1.3 (i) The bidder should have successfully completed physical construction of transmission line project(s) involving stringing of not less than <i>following cumulative route length of 345/400 kV or higher voltage class</i> transmission line as a prime contractor or as a partner in a joint venture+ within the last seven (7) years as on the originally scheduled last date of bid submission (soft copy) mentioned above. For Package- OH01 : 19 km +Note: In case the bidder has executed the work under a contract that had been awarded on a Joint Venture wherein the bidder was one of the partners, the experience of the bidder shall be considered limited to the scope executed by the bidder as a partner under the said contract. <i>(Route length in ref package=18 Kms)</i>	COMMITTEE RECOMMENDATIONS: May be modified as follows: 1.3 (i) The bidder should have successfully completed# physical construction of transmission line project(s) involving <i>cumulative</i> stringing of not less than <i>25% kms of route length of transmission lines of 132 kV (project specific/priority)</i> or higher voltage class transmission line as a prime contractor or as a partner in a joint venture+ within the last seven (7) years as on the originally scheduled last date of bid submission. +Note: In case the bidder has executed the work under a contract that had been awarded on a Joint Venture wherein the bidder was one of the partners, the experience of the bidder shall be considered limited to the scope executed by the bidder as a partner under the said contract.
AS PER PGCIL: 1.3 (ii) The bidder shall either meet requirements stipulated at 1.1 (a) or 1.1 (b) or 1.1 (c) on its own or they should have assured access from conductor manufacturer meeting the requirement at 1.1 (a) or 1.1 (b) or 1.1 (c). In such a case, the bidder shall furnish Joint Deed of Undertaking (Format Enclosed) along with the conductor manufacturer in the bid to guarantee quality & timely supply of conductor and <i>confirming to furnish a performance guarantee of 2% of the Ex-works cost of such conductor from the conductor manufacturer. This will be in addition to contract performance guarantee to be submitted by the contractor (bidder) on award of contract.</i>	COMMITTEE RECOMMENDATIONS: No Change. Same as PGCIL.

Note: In case conductor is proposed from conductor manufacturer not meeting requirements specified at Clause 1.1(a) but meeting requirements specified at Clause 1.1 (b) or 1.1 (c), the bidder shall provide warranty obligations in terms of **10% of the ex-work cost of the HTLS conductor** for additional period of two (2) years over and above the warranty period as specified in the bidding documents.

In case bidder is a holding company, the technical experience referred to in clause 1.1, 1.2 & 1.3 above shall be of that holding company only (i.e. excluding its subsidiary/group companies). In case bidder is a subsidiary of a holding company, the technical experience referred to in clause 1.1, 1.2 & 1.3 above shall be of that subsidiary company only (i.e. excluding its holding companies).

SPECIFICATIONS FOR HTLS STANDARD BIDDING DOCUMENT

- Shall be as per ***“Guidelines for Rationalised Use of High Performance Conductors By Power System Engineering & Technology Development Central Electricity Authority”, Feb 2019/with amendments***