

MINUTES OF PREBID MEETING

NIT No.	AEGCL/MD/Tech-1145/Aug Trafo/80MVA/T-6/2026/NIT Dated 20.01.2026
Name of the Work	Supply of 132/33kV, 80MVA Power Transformers and Related Services for Gossaigaon & Sankardevnagar Substations of AEGCL (Package-T-6).
Funding Agency	Internal Source of AEGCL (Term Loan)
Venue & Date of Pre-Bid Meeting	Conference Room O/o the MD, AEGCL, 1st Floor, Bijulee Bhawan, Paltan Bazar, Guwahati-01 dated 29.06.2026

OPENING REMARKS:

Sri. Bikram Bordoloi, DGM (BD&T), AEGCL extended a warm welcome to all the prospective bidders and introduced his team.

The DGM (BD&T), AEGCL briefed on the package (T6) inviting the OEM for supply of 132/33kV, 80 MVA Transformers at various location of Lower Assam and Central Assam Region. The components included in the concerned package and the project's scope were explained and further requested the prospective bidders to table their queries for discussion. It was assured to the prospective bidders that comprehensive reply/clarifications shall be prepared and uploaded in the AEGCL site as well as e-tender portal in response to their raised queries on the bid document.

NAMES OF THOSE PRESENT (Attendance Sheet enclosed herewith):

1. FROM EMPLOYER:

1. Sri Balabanta Basumatary, CGM (O&M), CAR, AEGCL
2. Sri Rituparna Khargharia, GM (P&D), AEGCL
3. Sri Bikram Bordoloi, DGM (BD&T), AEGCL
4. Sri Prantik Pran Saikia, AGM (P&D), AEGCL
5. Sri Dhriti Lochan Hazarika, AGM (BD), AEGCL

[Handwritten signatures and initials are present at the bottom of the page, including "R", "L", "A", "mr", "B", "Rasarna", and "J".]

6. Sri Joydeep Suklabaidya, DM (P&D), AEGCL
7. Sri Priyojit Bonikya, DM (BD) AEGCL

2. **FROM PROSPECTIVE BIDDERS:**

A. **BIDDERS THAT WERE PRESENT AT THE PRE-BID MEETING:**

1. Mr. Kunal Chatterjee from M/s Bharat Bijlee Ltd.
2. Mr. M. Mukherjee from M/s Bharat Bijlee Ltd.
3. Mr. Akash Dutta from M/s Bharat Bijlee Ltd.
4. Mr. Diganta Sharma from M/s Schneider Electric (Through VC)
5. Mr. Preetkamal Singh from M/s Schneider Electric (Through VC)
6. Smt. Priyanka Bhardwaj from M/s Schneider Electric (Through VC)
7. Mr. Ambar Niyogin from M/s CG Power (Through VC)

MEMBERS OF THE PRE-BID COMMITTEE:

1. Smt. Jayashree Devi, CGM (PP&D), AEGCL
2. Sri Balabanta Basumatary, CGM (O&M), CAR, AEGCL
3. Sri Arup Kalita, CGM (O&M), LAR, AEGCL
4. Smt. Rijumani Sarma, CGM (O&M), UAR, AEGCL
5. Sri Asish Hazarika, GM (M&PR), AEGCL
6. Sri Rituparna Khargharia, GM (P&D), AEGCL
7. Sri Bikram Bordoloi, DGM (BD&T), AEGCL
8. Sri Kashi Nath Baishya, DGM (F&A), AEGCL

The queries submitted by the prospective bidders were discussed by the Pre-Bid Committee and the observations made are **as follows in Table-1.**

[Handwritten signatures and initials in blue ink, including "R", "Akha", "mh", "A", "Rarna", "R", and "W"]

Table-1:
QUERIES ON BID DOCUMENT (INSTRUCTIONS TO BIDDERS, BDS, TECHNICAL ETC.)

Addressing Pre-bid discussion and query on uploaded tender document issued by AEGCL for supply of 132/33kV, 80MVA Power Transformers and Related Services at various GSS of AEGCL			
ASSAM ELECTRICITY GRID CORPORATION LTD. (AEGCL)			
Name of the Work: Supply of 132/33kV, 80MVA Power Transformers and Related Services for Gossaigaon & Sankardevnagar Substations of AEGCL (Package-T-6)			
Bid Identification Nos. - AEGCL/MD/Tech-1145/Aug Trafo/80MVA/T-6/2026/BID, Dated 11.06.2026 (Package T-6)			
SN.	Clause of Specification	Queries on Specification.	Clarification from AEGCL
1	"Bid Volume II" Cl. 1.3.1.3 (i) Page 4 & 56 of 135	We have considered Impedance as mentioned in Annexure A 3.0 Sr. no. 7.12. Also note, Parallel operation is possible only between offered transformers.	Parallel operation with existing transformer is not required.
2	"Bid Volume II" Cl. 1.4.0 & Cl. 1.12.1.4 Page 5 & 11 of 135	In Cl. 1.4.0. it is given that Type test report of 10 years are acceptable, while in Cl. 1.12.1.4 Type test report of 5 years are required. Kindly confirm your requirement.	As per CEA " Guidelines for Type Test for Major Equipment of Power Sector" 2026.
3	"Bid Volume II" Cl. 1.29.0 & 1.42.0 Page 43, 50 & 51 of 135	Since NIFPES is considered in our offer, "Automatic Mulsifire System (or High Velocity Water Spray System)" is not in BBL scope.	NIFPS is in the scope of the bidder. HVWS not required.
4	"Bid Volume II" Annexure T & BOQ1 Sr.no. 1 Page 107 & 108 Of 135	As per the specifications, "Oil Storage Tank" is mentioned as per BPS. However, the BPS do not include "Oil Storage Tank". Therefore, we have not considered Oil storage tank in our offer.	The Oil Storage Tank required for the Nitrogen Injection Fire Prevention System (NIFPS) only is within the scope of the successful bidder. No separate BOQ item has been provided for the Oil Storage Tank. The cost of the Oil Storage Tank shall be deemed to be included in the rates quoted by the bidder under the relevant BOQ items pertaining to the NIFPS. Accordingly, no separate payment shall be admissible or made for this item.
5	"Bid Volume II" Cl. 1.28.0 & Annexure N Page 41,97 & 98 Of 135	Since, BDV kit is not mentioned in BOQ, we have not considered BDV Kit in our offer. Kindly confirm your requirement.	As per BoQ. BDV kit not required.
6	"Bid Volume II" Annexure G Page 70-75 Of 135	Current transformer details of 80MVA are not provided in specification. Kindly provide complete CT details if required.	Referred to Annexure-I along with this documents.

7	"Bid Volume II" Cl. No. 1.21.2, 1.24.0 & 1.29.0 Page 34, 35, 40, 41, 42 & 43 of 135	We will provide control cables only from transformer mounted protection devices to Marshalling Box. Any other type of interconnecting cables (i.e. FO cable, special cable, Power & control cables) & accessories between M.Box, OLTC DM & Digital RTCC panel, purchaser panel/control room/customer panel/SCADA shall not be in BBL scope. Also any type of optical cable and accessories from Ethernet switch to control panel/customer panel shall not be in BBL scope of supply.	All power and control cable from transformer and OLTC DM till Marshalling Box shall be in scope of bidder.
8	"Bid Volume II" Cl. No. 1.23.0, Page 38,39 &40 of 135	Suitable communication hardware including communication cables up to distance of 1km to communicate between digital RTCC relays shall not be in BBL scope of supply.	Screening cable for mA output shall be provided by the bidder.
9	General	Parallel operation shall be possible between offered/similar transformer as existing transformer details are not provided.	Parallel operation with existing transformer is not required.
10	General	Integration of any online monitoring instrument with SCADA/customer panel shall not be in BBL scope of supply.	Agreed.
11	"Bid Volume I" ITB 1.3.7.5, Page 16 , 17 of 79	The prices quoted by the Bidder shall be ADJUSTABLE for entire period of the Contract in accordance with Price Variation (PV) given in under ITB Clause 1.3.7.5. We propose for no positive ceiling due to the volatile market scenario.	As per the Bid.
12	"Bid Vol 1" cl 6.16.2, Page 65 of 79	If the Supplier fails to attain Completion of the Works within the Time for Completion or any extension thereof under SCC Clause 6.15.0, the Supplier 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. We propose for LD Deduction @ 0.5% per week upto maximum 5% on the undelivered materials.	As per the Bid.
13	"Bid Vol-II", Clause no. 1.4.0. SPECIFIC REQUIREMENT:	"Test reports to be acceptable must be related directly to the materials offered. Type Test Reports of Power/Auto transformer older than ten (10) years on the date of technical bid opening shall not be accepted. The Validity of Dynamic Short Circuit test report shall be as per CEA's notification no. CEA-TH-17/1/2021-TETD Division—dated 23rd December, 2022. The Validity of type test report of Power/Auto Transformer and its accessories shall be as per CEA's "Guideline for Validity period of Type Tests conducted on Major Electrical Equipment in power transmission system", file No CEA-PS-14-80/1/2019-PSETD Division- Part (2)." Please clarify the validity requirement of the Type test reports as the validity requirement on page 5 and page 11 are contradictory.	As per CEA " Guidelines for Type Test for Major Equipment of Power Sector" 2026.











14	"Bid Vol-II", Clause no. 1.12.0 Design review	1.12.1.4 Type test requirement & it's validity The offered transformer or the transformer, the design of which is similar to the offered transformer, should have been successfully type tested within last 5 years or as per latest CEA guideline as on the last date of submission of bid. Manufacturer may use same or different approved make of Bushings and other accessories used in type tested or short circuit tested unit in their transformer. Central Electricity Authority's "Guidelines for the validity period of type tests conducted on major electrical equipment in power transmission system" shall be followed regarding the validity of type tests of Bushings and other accessories. Please clarify the validity requirement of the Type test reports as the validity requirement on page 5 and page 11 are contradictory.	As per CEA " Guidelines for Type Test for Major Equipment of Power Sector" 2026.
15	"Bid Vol-II", Clause no. 1.4.0. SPECIFIC REQUIREMENT: , (ii) Dynamic Effect of Short Circuit:	For 132 kV Class Transformer: Bidder / Manufacturer should have successfully carried out Dynamic Short Circuit Test on 50 MVA or above rating, 132/33 kV Power transformer as on the originally scheduled date of bid opening and shall enclose the relevant Test Report / Certificate along with bid. In case bidder has not successfully tested 132/33 kV, 50 MVA or above rating transformer for Dynamic Short Circuit Test, their bid shall be considered technically non-responsive. The offered transformer should comply the requirement of similarity clause specified in IS 2026 (PART 5) / IEC 60076-5 with respect to short circuit tested transformer. Further, design review of offered transformer shall be carried out based on the design of short circuit tested transformer. Please confirm whether submission of a short-circuit test report of a higher rating transformer within the same voltage class is acceptable, or alternatively, whether a similarity comparison in accordance with IEC/IS Part 5, Annexure B, based on a transformer that has undergone short-circuit testing within the last ten (10) years, can be submitted.	As per Bid.
16	"Bid Vol-II", Clause no. 1.13.9.0 Page 19, Core	Laminations of one particular thickness i.e., 0.23mm or 0.27mm or better (quoted grade and type) shall be used. Laminations of different grade(s) and different thickness(s) are not allowed to be used in any manner or under any circumstance 4.11.1 The core shall be constructed from non-ageing, Prime HI-B or better Grade ≤ 0.23 mm thickness Cold Rolled Grain Oriented (CRGO) silicon steel laminations. Indian transformer manufacturers shall use core material as per above specification with BIS certification.	As per Bid.









17	"Bid Vol-II", Clause no. 1.14.1.0 Page 22, General	The transformer manufacturer should have in house availability of vapour phase Drying (VPD) plant for proper drying of the insulation. In case VPD facility is not available, the bidder will prove that the method of drying adopted by them is equivalent or better than VPD in terms of level of dryness and other benefits of VPD. VPD shall be mandatory in house process for transformer rated 50MVA and above as per CEA guideline	As per Bid.
18	"Bid Vol-II", Clause no. Annexure-W pg no. -118, Basic Manufacturing facility, pt no.-4	Core Cutting (if applicable) We propose you to mention mandatorily, the manufacturer should have in-house core cutting facility .	As per Bid.
19	"Bid Vol-II", Clause no. Annexure-W pg no. -118, Basic Manufacturing facility, pt no.-5	Autoclave We understand that manufacturer should have Vapour Drying Facility for Coil Core Assembly being a power transformer of higher rating	As per Bid.
20	"Bid Vol-II", Clause no. 1.17.0 Pg no. 24 & 25, Bushing	145 kV, 245 kV and 420 kV bushings for 400 kV and below voltage class transformers Bushing Type:- RIP/RIS For 145kV, we propose for OIP bushing instead of RIP bushing, considering the lead time, cost benefit. RIP is usually preferred above 160 MVA & 220kV range.	As per Bid. RIP/RIS bushing required.
21	Additional Clause	Health Monitoring System for Transformer The scope shall include Supply, Installation, Configuration, Commissioning, Testing and Subscription for services of Online Transformer monitoring system for 60 months in the Transformers at site. The system shall be able to facilitate continuous monitoring of Transformer parameters, carry out data analysis and anticipate faults. Solution shall be web accessible and which shall allow inclusion of additional users without charge. The solution shall utilize smart IOT sensor(s), and its smart algorithms to perform trend analysis, forecasting and risk assessment and detect abnormal behaviour in a transformer's health. The solution shall provide continuous visibility into the health status of the transformers. Predictive analytics shall enable accurate health and lifespan forecasting across entire fleets of transformers and offer proactive recommendations to help make data-driven decisions regarding maintenance and replacement. The solution shall measure 1) Moisture in oil, 2) Top & bottom oil temperature, 3) Partial discharge activity, 4) Vibration trends, 5) Hydrogen Gas levels in Oil.	As per BoQ.
22	Additional Clause	Third Party Testing AEGCL shall randomly select any transformer from the lot for 3rd party testing during FAT/despatch. This test shall include routine test, temperature rise & impulse withstand test.	As per BoQ.

23	"Bid Vol-II", Clause no. 1.28.0 Test Kit, Pg no. 41	BDV Kit as per Annexure-N of specification. Portable DGA Kit as per Annexure-O of Specification. in scope of EPC	BDV and Portable DGA not required.
24	"Bid Vol-II", Clause no. 1.38.0, Pg no. 45	NITROGEN INJECTION TYPE FIRE PREVENTION & EXTINGUISHING SYSTEM in scope of EPC	As per Bid / BoQ. In the scope of bidder.
25	"Bid Vol-II", Clause no. 1.10.1.0, Pg no. 49	Technical Parameters: communication- RJ45/RS-232 ports and suitable for Ethernet connectivity This shall be Part of DGA, hence it should be in scope of EPC	As per Bid / BoQ. In the scope of bidder.
26	"Bid Vol-II", Clause no. 1.44.0, Pg no. 52	Transformer – Connection to GIS: Suitable spring bellows shall be provided on the connecting GIS busduct at suitable location to prevent any vibration generating from transformer to GIS busduct. Transformer manufacturer scope shall be limited to supply upto transformer bushing only . Any specific arrangement to be considered by EPC. Please confirm if any special arrangement needs to be provided for LV and HV bushing connection.	As per Bid.
27		Annexure-K in scope of EPC	As per BoQ.
28	101	Annexure-P For H2 gas & moisture monitoring, we propose our health monitoring system The scope shall include Supply, Installation, Configuration, Commissioning, Testing and Subscription for services of Online Transformer monitoring system for 60 months in the Transformers at site. The system shall be able to facilitate continuous monitoring of Transformer parameters, carry out data analysis and anticipate faults. Solution shall be web accessible and which shall allow inclusion of additional users without charge. The solution shall utilize smart IOT sensor(s), and its smart algorithms to perform trend analysis, forecasting and risk assessment and detect abnormal behaviour in a transformer's health. The solution shall provide continuous visibility into the health status of the transformers. Predictive analytics shall enable accurate health and lifespan forecasting across entire fleets of transformers and offer proactive recommendations to help make data-driven decisions regarding maintenance and replacement. The solution shall measure 1) Moisture in oil, 2) Top & bottom oil temperature, 3) Partial discharge activity, 4) Vibration trends, 5) Hydrogen Gas levels in Oil.	As per BoQ.
29	MQP-pt no. 3.3.2 Pg no.-132	Active Part Drying, VPD Data We understand that manufacturer should have Vapour Drying Facility for Coil Core Assembly	As per Bid.
30	page 50-51, clause no. - 1.42.0	Automatic Mulsifire System (or High Velocity Water Spray System) in scope of EPC	Automatic Mulsifire System (or High Velocity Water Spray System) not required.

31	"Bid Vol- I", Clause no. 2.5 (b)	As per bidding document specification Vol-I Cl. No. 2.5 (b) Manor items, AEGCL ask the Type test Report & Performance certificates of OLTC, NIFPES, Online DGA, online Dryout System, AVR relay etc. We request to AEGCL that these data will be provided to AEGCL after award of contract during drawing approval as per approved vendor list. As per this exercise we can avoid the delay in the bid tendering & minimize the documentation. Kindly accept our point to avoid any delay in bidding documents.	Agreed.
32	"BoQ", Sl. no. 1.07	As per BOQ Sl. No. 1.07, Rail Tracks for each transformer required. We request to AEGCL to provide the Length & Size of Rail Tracks for consideration the cost in our offer.	The Rail Tracks shall conform to Indian Railways Standard Specification IRS-T-12. The length and quantity of the Rail Tracks shall be as per the approved foundation design and site requirements.
33	"Bid Vol- II", Clause no. 1.0	As per Bidding document specification Vol-II, Cl. 1..0 (i), the Validity of Dynamic Short Circuit Test Report shall be as per CEA's notification no. CEA-TH-17/1/2021-TETD Division – Dt.23.12.2022. We hereby inform you that, in the previous tender (NIT dated 20.01.2026), AEGCL issued a corrigendum for Packages T1, T2, and T3 regarding the validity of the Dynamic Short Circuit Test Report. As per the corrigendum, the validity of the Dynamic Short Circuit Test Report shall be 10 years from the date of technical bid opening. We kindly request you to amend the relevant clause accordingly by specifying that the validity of the Dynamic Short Circuit Test Report shall be 10 years from the date of technical bid opening.	DSCWT shall be performed on any of the offered transformer or shall establish similarity as per CEA/IEC with a type tested transformer of same voltage class with same or higher rating. Similarity shall be established with detailed calculation of forces and stresses between offered and type tested transformer. Validity of DWSCT shall be 10 years from date of technical bid opening.

Signature:

GM (M&PR)
O/o the MD, AEGCL

General Manager (P&D)
AEGCL, Bijulee Bhawan Compus
Paltanbazar, Ghy-01

B. Basumatary
CGM (O & M), CAR
O/O the MD, AEGCL

Annexure-I

8.0 Parameters of Current Transformer for 80 MVA (3-ph), 132/33kV Transformers

Description	Current Transformer Parameters			
	HV Side	HV Neutral Side	LV Side	LV Neutral Side
Ratio				
CORE 1	400/1	400/1	1600/1	1600/1
CORE 2	400/1	-	-	-
Minimum knee point voltage or burden and accuracy class				
CORE 1	400V, PX/PS	400V, PX/PS	1600V, PX/PS	1600V, PX/PS
CORE 2	0.2S Class 15VA ISF ≤ 5	-	-	-
Maximum CT Secondary Resistance				
CORE 1	1.5 Ohm	1.5 Ohm	4 Ohm	4 Ohm
CORE 2	-	-	-	-
Application				
CORE 1	Restricted Earth Fault (REF)	REF	REF	REF
CORE 2	Metering	-	-	-
Maximum magnetization current (at knee point voltage)				
CORE 1	100 mA	100 mA	25 mA	25 mA
CORE 2	-	-	-	-

Notes:

- Parameters of WTI CT for each winding shall be provided by the manufacturer / contractor.
- The CTs used for REF protection must have the identical parameters in order to limit the circulating current under normal condition for stability of protection.