



No. Elect/196/AB/2022/179

Date: 08.11.2023

CORRIGENDUM

Tender ID: 2023_ICD_33295_1

Tender Reference No: Elect/196/AB/2022/160 Dated 27.10.2023

Tender Title: To carryout Supply, Installation, Testing and Commissioning of Anode Ground Bed along with Anode Junction Box, Cathode Junction Box, Cu/CuSO4 permanent reference electrode & CP cable marker at CP stations.

Corrigendum Title: Amendment of Technical Specification

With reference to the above, the following amendments to the existing entries of the above referred tender are as follows.

Sl. No.	As per Original Entry	Amended as
1.	<p>Section-A Annexure-A2 (Price Schedule Proforma) Sl. No. 1 Supply, Installation, testing & commissioning of Anode Ground Bed Horizontal with 10 (Ten) Numbers "Mixed Metal Oxide" (MMO) coated Titanium Anodes with current output 50 Amp (5 A x 10 numbers) in single string with 3 Tonne Calcined Petroleum coke of minimum bulk density 1040 Kg/Cubic Meter & minimum specific gravity 1.90. Another cable to be connected from the last Anode of the string to AJB as backup cable i.e. dual fed anode string. The anode cable should be of 16 sq.mm EPR/CSPE cable with anode tail cable 6 meter. The anode string should be laid horizontally at a depth of 2 meters and 50 meter active length. Recommended Anode make for MMO anodes are Titanor Components Ltd, Goa or Oronzid De Nora S.A. Switzerland or ACTEL, UK or M/S MATCOR, USA or ELTECH, USA. Please refer to ANNEXURE-B1 for diagram.</p>	<p>Section-A Annexure-A2 (Price Schedule Proforma) Sl. No. 1 Supply, Installation, testing & commissioning of Anode Ground Bed Horizontal with 10 (Ten) Numbers "Mixed Metal Oxide" (MMO) coated Titanium Anodes with current output 50 Amp (5 A x 10 numbers) in single string with 3 Tonne Calcined Petroleum coke of bulk density in the range of 850 to 1200 Kg/Cubic Meter & minimum specific gravity 1.90. Another cable to be connected from the last Anode of the string to AJB as backup cable i.e. dual fed anode string. The anode cable should be of 16 sq.mm EPR/CSPE cable with anode tail cable 6 meter. The anode string should be laid horizontally at a depth of 2 meters and 50 meter active length. Recommended Anode make for MMO anodes are Titanor Components Ltd, Goa or Oronzid De Nora S.A. Switzerland or ACTEL, UK or M/S MATCOR, USA or ELTECH, USA. Please refer to ANNEXURE-B1 for diagram.</p>



<p>Sl. No. 2 Supply, Installation, testing & commissioning of Deep well anode ground bed with 10 (Ten) Numbers "Mixed Metal Oxide" (MMO) coated Titanium Anodes with current output 50 Amp (5 A x 10 numbers) in single string with 16 sq.mm EPR/CSPE anode cable. Another cable to be connected from the last Anode of the string to AJB as backup cable i.e. dual fed anode string including drilling of 6" diameter bore hole of for installation of 6" diameter MS casing pipe, 52+/-2 meter deep including lowering of anode with lead cable, centralizer, supply and lowering of vent pipe, supply and flushing Calcined Petroleum coke of minimum bulk density 1040 Kg/Cubic Meter & minimum specific gravity 1.90, back filling in slurry form, preparation of pit above deep well, clamping of anode bed cables, resistance logging of bore hole complete including all labour and materials cost as per specifications. The deep bore hole of deep well anode bed shrouding of MS casing pipe by Rigid PVC pipe up to a depth of 15 m from top of the MS casing pipe. Recommended Anode make for MMO anodes are Titanor Components Ltd, Goa or Oronzid De Nora S.A. Switzerland or ACTEL, UK or M/S MATCOR, USA or ELTECH, USA. Please refer to ANNEXURE-B2 for diagram.</p>	<p>Sl. No. 2 Supply, Installation, testing & commissioning of Deep well anode ground bed with 10 (Ten) Numbers "Mixed Metal Oxide" (MMO) coated Titanium Anodes with current output 50 Amp (5 A x 10 numbers) in single string with 16 sq.mm EPR/CSPE anode cable. Another cable to be connected from the last Anode of the string to AJB as backup cable i.e. dual fed anode string including drilling of 6" diameter bore hole of for installation of 6" diameter MS casing pipe, 52+/-2 meter deep including lowering of anode with lead cable, centralizer, supply and lowering of vent pipe, supply and flushing Calcined Petroleum coke of <i>bulk density in the range of 850 to 1200 Kg/Cubic Meter</i> & minimum specific gravity 1.90, back filling in slurry form, preparation of pit above deep well, clamping of anode bed cables, resistance logging of bore hole complete including all labour and materials cost as per specifications. The deep bore hole of deep well anode bed shrouding of MS casing pipe by Rigid PVC pipe up to a depth of 15 m from top of the MS casing pipe. Recommended Anode make for MMO anodes are Titanor Components Ltd, Goa or Oronzid De Nora S.A. Switzerland or ACTEL, UK or M/S MATCOR, USA or ELTECH, USA. Please refer to ANNEXURE-B2 for diagram.</p>
<p>Section-B 1.0 SCOPE 2. 1.1 Scope of work of the bidder will be Supply, Installation, Testing and Commissioning 04(Four) No.s of Anode Ground Bed (Both Horizontal & Deepwell) along with 04(Four) No.s of Anode Junction Box, 04(Four) No.s of Cathode Junction Box, 08(Eight) No.s of Cu/CuSO4 permanent reference electrode & 12(Twelve) No.s of CP cable marker at CP stations on AGCL's various gas pipelines in Assam including loading at factory,</p>	<p>Section-B 1.0 SCOPE 1.1 Scope of work of the bidder will be Supply, Installation, Testing and Commissioning 04(Four) No.s of Anode Ground Bed (Both Horizontal & Deepwell) along with 04(Four) No.s of Anode Junction Box, 04(Four) No.s of Cathode Junction Box, 08(Eight) No.s of Cu/CuSO4 permanent reference electrode & 12(Twelve) No.s of CP cable marker at CP stations on AGCL's various gas pipelines in Assam including loading at factory, transportation, unloading at site, lowering of</p>



<p>transportation, unloading at site, lowering of anode with lead cable, centralizer, supply and lowering of vent pipe, supply and flushing of calcined petroleum coke having carbon content 99.9 % with <i>minimum bulk density 1040 Kg/Cubic Meter & minimum specific gravity 1.90 as per NACE 0572 standard, back filling in slurry form, preparation of pit, clamping of anode bed cables, resistance logging of bore hole complete including all labour and materials as per specifications.</i></p> <p>4.0 Important Technical Information</p> <p>4.1 Deep Well Anode Bed Specifications: Sl. No. (r) Backfill: Calcined petroleum coke, Carbon content 99.9 %, Minimum Bulk Density 1040 Kg/Cubic Meter & Minimum Specific Gravity 1.90 as per NACE 0572 standard</p> <p>4.2 Horizontal Anode Bed Specifications: Sl. No. (q) Backfill: Calcined petroleum coke, Carbon content 99.9 %, Minimum Bulk Density 1040 Kg/Cubic Meter & Minimum Specific Gravity 1.90 as per NACE 0572 standard</p>	<p>anode with lead cable, centralizer, supply and lowering of vent pipe, supply and flushing of calcined petroleum coke having carbon content 99.9 % with <i>bulk density in the range of 850 to 1200 Kg/Cubic Meter & minimum specific gravity 1.90, back filling in slurry form, preparation of pit, clamping of anode bed cables, resistance logging of bore hole complete including all labour and materials as per specifications.</i></p> <p>4.0 Important Technical Information</p> <p>4.1 Deep Well Anode Bed Specifications: Sl. No. (r) Backfill: Calcined petroleum coke, Carbon content 99.9 %, <i>Bulk Density in the range of 850 to 1200 Kg/Cubic Meter & Minimum Specific Gravity 1.90</i></p> <p>4.2 Horizontal Anode Bed Specifications: Sl. No. (q) Backfill: Calcined petroleum coke, Carbon content 99.9 %, <i>Bulk Density in the range of 850 to 1200 Kg/Cubic Meter & Minimum Specific Gravity 1.90</i></p>
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All other terms & conditions of the above referred tender will remain unchanged.



Managing Director
Assam Gas Company Limited

