



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Transmission Business Group

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CORRIGENDUM - 01 TO NIT NO-91739

Dated 04-06-2025

Subject: Corrigendum-01 to Tender enquiry for Pre-Bid Tie up with the GIS OEM for Supply & Services of 66KV GIS PACKAGE for BINA PETCHEM AND REFINERY EXPANSION PROJECT (BPREP) OF M/S BHARAT PETROLEUM CORPORATION LIMITED (BPCL).

Project : 66kV GIS for Bina Petchem of BPCL
Equipment / Item : Supply & Services of 66kV GIS & Its associated equipment
Enquiry No/Date : Enquiry No._ 61Q2600123 Dated 30-05-2025
BHEL NIT NO : 91739
Original Tender due date : 10-06-2025

This Corrigendum is issued by BHEL TBG against above mentioned NIT/ enquiry for issuance of Technical Corrigendum Rev-01 along with Technical clarifications (enclosed). Due to change in BOQ, Revised price bid format (unpriced) is also enclosed and same need to be followed for bid submission.

All other terms and conditions for this tender enquiry shall remain unchanged.

Bidder to ensure submission of offer on or before due date.

Note: Tender ID on CPP Portal is **2025_BHEL_49057_1**.

Thanking you

-----Sd/-----

Gaurav Agarwal
BHEL TBG, NOIDA

Ref. No. Technical Corrigendum-01

Pre-Bid Tie up for,
Project: 220kV GIS Package of BINA PETCHEM & REFINERY EXPANSION PROJECT (BPREP) of M/S BHARAT PETROLEUM CORPORATION LIMITED (BPCL)

Package/ Item: 66kV Gas Insulated Switchgear (GIS) with its accessories
Date: 03.06.2025

| Sl. No. | Volume/ Section/ Clause | Volume/ Section/ Clause as Existing | Volume/ Section/ Clause as Amended/ Added in Technical Corrigendum-01 |
|---------|-------------------------|---|--|
| 1 | Technical Specification | New addition | Customer Technical Amendment Rev03 is attached, which shall be applicable on Technical Specification of 66kV GIS. |
| 2 | Technical Specification | Section 1.4/ Section-1/ Technical Specification | Section 1.4 (SLD & 66kV GIS DETAIL DATASHEET) is revised as Section 1.4 (SLD & 66kV GIS DETAIL DATASHEET with updated & latest version). |
| 3 | Technical Specification | Section 1.5/ Section-1/ Technical Specification | Section 1.5 (Annexure- BOQ REV00) is revised as Section 1.5 (Annexure- 66kV GIS BOQ REV01). |
| | | | |

Note:

1. The changes/ revision are marked/ highlighted in yellow.
2. Amendment/ addendum/ clarification/ corrigendum issued herein shall form part of Technical Specification.

Bidders to please note that amendment/addendum/ clarification/ corrigendum issued shall supersede the respective Volume/ Section/ Clause of Technical Specification Document to the extent for the Volume/ Section/ Clause or part thereof the amendment is issued.



TECHNICAL AMENDMENT-3 FOR 220kV GIS PKG

(Document No : B957-000-16-50-TA-0020-03)



Click on the Document Title to go to that section of the document

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| B957-000-16-50-0011 | E | KEY SINGLE LINE DIAGRAM - 220KV GIS PACKAGE | 5 |
| B957-000-16-50-DS-6611 | D | DATA SHEET - 66KV FEEDER LIST | 6 |

TECHNICAL AMENDMENT NO: 03

TO

BIDDING DOCUMENT NO.: B957-000-16-50-EB-T-0020

220KV SWITCHYARD AND GIS PACKAGE

**PROJECT: OVERALL PROJECT MANAGEMENT AS MPMC AND
PMC/EPCM SERVICES FOR ETHYLENE CRACKER
UNIT AND U&O FOR BPREP BINA PETROCHEMICAL
& REFINERY EXPANSION PROJECT (BREP)**

| | | | | | |
|-----------------|-------------|---------------------------------|------------------|-----------------|-----------------|
| | | | | | |
| A | 29.05.2025 | Issued as Technical Amendment-3 | SK | RSR | HK |
| REVISION | DATE | PURPOSE | PERFORMER | REVIEWER | APPROVER |

**TECHNICAL AMENDMENT NO. 03
(Electrical)**
**DOCUMENT No.
B957-000-16-50-TA-0020-03 Rev. A
Page 2 of 2**

SUBJECT : Technical Amendment No.: 03
BIDDING DOCUMENT NO. : B957-000-16-50-EB-T-0020

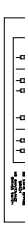
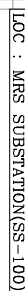
The terms, conditions and specifications of Bidding Document stand modified to the extent indicated under column "MODIFICATIONS/ADDITION/DELETION". Corresponding implications of the same, else-where in the bid package shall be taken care appropriately. All other terms & conditions, stipulations and specifications of Bidding Document shall remain unaltered.

| Sl. No | Section/ Document | Page No. | Clause / Item No. | Subject | Modifications/Additions/Deletions |
|--------|---|------------|--------------------|---|--|
| 1. | Technical Amendment-1 (Electrical) (doc. No. B957-000-16-50-TA-0020-01 Rev. A) | 6 of 237 | Sl. No. 15 | Cable size | Modification: In the subject clause the cable size shall be read as "2R x 1C x 630 sq.mm. per phase min. However, cable shall be sized for total power capacity of 2 nos. grid transformers (i.e. total 400 MVA ONAF rating)." |
| 2. | Technical Amendment-2 (Electrical) (doc. No. B957-000-16-50-TA-0020-02 Rev. A) | 6 of 62 | sl. No. 11 | Mandatory spares | Deletion: In the referred clause the item Capacitive type voltage detectors indicated in sl. No. 2.8, 2a.8 & 23.12 stands "DELETED" |
| 3. | "do" | 21 of 62 | | Datasheet for 66kV feeder list (Rev. C) | Modification: Datasheet replaced with B957-000-16-50-DS-6611 Rev. D |
| 4. | "do" | 23 of 62 | | Key single line diagram (Rev. D) | Modification: The document shall be replaced with B957-000-16-50-00011 Rev. E |
| 5. | Scope of work & Job Specification (ELECTRICAL), doc. no. B957-000-16-50-SP-0020 Rev. A) | 88 of 3017 | New cl. no. 5.12.4 | HV capacitor bank | Modification: Following shall be added as "HV capacitor bank shall be sized for complete loading of the switchboard excluding owner's feeders" |

Enclosures:

- 1) Key single line diagram – doc. No. B957-000-16-50-00011 Rev. E
- 2) Datasheet for 66kV Feeder list – doc. No. B957-000-16-50-DS-6611 Rev. D

(SIGNATURE AND STAMP OF BIDDER)



- BE WITHOUT ANY MECHANICAL RELAY AND SHALL BE PROVIDED WITH ELECTROCHEMICAL TYPE TRIP CIRCUIT SUPERVISION RELAY.


- 9 HIGH SPEED EARTH SWITCH

| | | | | | | | | | | | | | | | | | | | |
|---|------------------------------|----------------------------|--|-----------------------------------|-------------|--------------------|-------|---------------------------------------|------------------------|--------------|------------------|-------------------|-------------------|------------------------|------|------|---|-----------------------|---------|
| <div>इंजीनियर्स इंडिया लिमिटेड</div> <div>ENGINEERS INDIA LIMITED</div> <div>(A Govt. of India Undertaking)</div> | | | | 66 kV GIS FEEDER DETAIL DATASHEET | | | | | | | | | | Data sheet No. | | | | | |
| | | | | | | | | | | | | | | B957-000-16-50-DS-6611 | | | | | |
| | | | | Rev.No. D | | | | | | | | | | | | | | | |
| D | 28.05.2025 | REVISED & ISSUED WITH TA-3 | | | | | | SK | | | RSR | | | RSR | | | | | |
| C | 28.04.2025 | REVISED & ISSUED WITH TA-2 | | | | | | SK | | | RSR | | | RSR | | | | | |
| B | 24.03.2025 | REVISED & ISSUED WITH TA-1 | | | | | | SK | | | RSR | | | RSR | | | | | |
| A | 11.11.2024 | ISSUED WITH TENDER | | | | | | SK | | | RSR | | | RSR | | | | | |
| Rev. | Date | | | | | | | Prepared | | | Checked | | | Approved | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| Project | | BPREP PROJECT | | | | Unit | | SUBSTATION | | | | Client | | BPCL-BINA | | | | | |
| Switchgear No. | | 100-HV-102 | | | | Location | | Substation-100 (MRSS) | | | | Auto/ Manual Xfr. | | Not Applicable | | | | | |
| Voltage | | 66 kV | | | | Current | | 3150 Amps | | | | Fault Level | | 40 kA (3 Sec) | | | | | |
| Bus Differential | | Required | | | | Bus Diff. CT Ratio | | 3150/1 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| S.No. | Feeder Nameplate Inscription | | | | Bus Section | | | | CT Primary Rating (A)* | | | | | Cable Details | | | Reference Datasheet | | Remarks |
| | Panel No. @ | Feeder No. # | Feeder Description | Rating (MVA)# | Left | Mid | Right | Breaker Rating/ Feeder Designation | Metering | Protection | | | | Run | Core | Size | EIL Hardware Datasheet B957-000-16-50-4 | Vendor Scheme No.@ | |
| | | | | | | | | | | O/C,S/C, E/F | Trafo/ Feeder | Differential | REF Protection | | | | | | |
| 1 | | | Incomer from Transformer (With Line PT) | 160/200 | 1 | | | 3150A | 2500 | 2500 | 2500 | - | GIBD | | | 6612 | | | |
| 2 | | | Incomer from Transformer (With Line PT) | 160/200 | | | 2 | 3150A | 2500 | 2500 | 2500 | - | GIBD | | | 6612 | | | |
| 3 | | | Bus Coupler 1A-2A | | 1 | | | 3150A | 3150 | 3150 | - | - | - | - | - | 6613 | | | |
| 4 | | | Bus Coupler 1B-2B | | | | 1 | 3150A | 3150 | 3150 | - | - | - | - | - | 6613 | | | |
| 5 | | | Bus Sectionalizer 1A-1B | | | 1 | | 3150A | 3150 | 3150 | - | - | - | - | - | 6613 | | | |
| 6 | | | Bus Sectionalizer 2A-2B | | | 1 | | 3150A | 3150 | 3150 | - | - | - | - | - | 6613 | | | |
| 7 | | | Bus PT 1A | | 1 | | | - | - | - | - | - | - | - | - | 6614 | | Note-7 | |
| 8 | | | Bus PT 1B | | 1 | | | - | - | - | - | - | - | - | - | 6614 | | Note-7 | |
| 9 | | | Bus PT 2A | | | | 1 | - | - | - | - | - | - | - | - | 6614 | | Note-7 | |
| 10 | | | Bus PT 2B | | | | 1 | - | - | - | - | - | - | - | - | 6614 | | Note-7 | |
| 11 | | | Transformer Feeder | 20/25 | 1 | | 1 | 630A | 250 | 250 | 250 | - | 3 | 1 | 300 | 6615 | | Note-4 | |
| 12 | | | PLANT FEEDER-1 (LLDPE) | | 1 | | 2 | 800A | 800 | 800 | 800 | - | 6 | 1 | 630 | 6616 | | Note-4 | |
| 13 | | | PLANT FEEDER-2 (BRC) | | 1 | | 0 | 630A | 500 | 500 | 500 | - | 6 | 1 | 300 | 6616 | | Note-4 | |
| 14 | | | PLANT FEEDER-3 (PP EXTRUDER) | | - | | 1 | 630A | 350 | 350 | 350 | - | 3 | 1 | 630 | 6616 | | Note-4 | |

Format No: EIL 1650-3001A Rev.2

Page 1 of 2

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|---|-------------|-----------------------------------|------------------------------|------|---------------|-------------|-------|----------|--|------------------------|----------------------------------|---|----------|---------------|------|---|-----------------------|-----------------------|---------|-------------------|--|----------------|--|
| <div><div>इंजीनियर्स इंडिया लिमिटेड</div><div><div>ENGINEERS INDIA LIMITED</div><div>(A Govt. of India Undertaking)</div></div></div> | | 66 kV GIS FEEDER DETAIL DATASHEET | | | | | | | | | | Data sheet No. B957-000-16-50-DS-6611 Rev.No. D | | | | | | | | | | | |
| D | 28.05.2025 | REVISED & ISSUED WITH TA-3 | | | | | | | SK | | RSR | | RSR | | | | | | | | | | |
| C | 28.04.2025 | REVISED & ISSUED WITH TA-2 | | | | | | | SK | | RSR | | RSR | | | | | | | | | | |
| B | 24.03.2025 | REVISED & ISSUED WITH TA-1 | | | | | | | SK | | RSR | | RSR | | | | | | | | | | |
| A | 11.11.2024 | ISSUED WITH TENDER | | | | | | | SK | | RSR | | RSR | | | | | | | | | | |
| Rev. | Date | | | | | | | | Prepared | | Checked | | Approved | | | | | | | | | | |
| Project | | | | | | | | | | | | | | BPREP PROJECT | | Unit | | SUBSTATION | | Client | | BPCL-BINA | |
| Switchgear No. | | | | | | | | | | | | | | 100-HV-102 | | Location | | Substation-100 (MRSS) | | Auto/ Manual Xfr. | | Not Applicable | |
| Voltage | | | | | | | | | | | | | | 66 kV | | Curent | | 3150 Amps | | Fault Level | | 40 kA (3 Sec) | |
| Bus Differential | | | | | | | | | | | | | | Required | | Bus Diff. CT Ratio | | 3150/1 | | | | | |
| S.No. | Panel No. @ | Feeder No. # | Feeder Nameplate Inscription | | Rating (MVA)# | Bus Section | | | Breaker Rating/ Feeder Designation | CT Primary Rating (A)* | | | | Cable Details | | | Reference Datasheet | | Remarks | | | | |
| | | | Feeder Description | Left | | Mid | Right | Metering | | O/C,S/C, E/F | Protection | | Run | Core | Size | EIL Hardware Datasheet B957-000-16-50-4 | Vendor Scheme No.@ | | | | | | |
| | | | | | | | | | | | Trafo/ Feeder Differential | REF | | | | | | Protection | | | | | |
| 15 | | | PLANT FEEDER-4 | | | 12 | | 12 | 630A | 250 | 250 | 250 | - | 3 | 1 | 300 | 6616 | | Note-4 | | | | |
| Notes : | | | | | | | | | | | | | | | | | | | | | | | |
| 1 "*" CT primary current ratings indicated are tentative and shall be finalised during drawing approval stage without any cost implication. CT secondary shall be 1 Amps for all. | | | | | | | | | | | | | | | | | | | | | | | |
| 2 '#' These shall be finalised during drawing approval stage and shall not have any cost implication. | | | | | | | | | | | | | | | | | | | | | | | |
| 3 '@' Data to be furnished by Vendor. | | | | | | | | | | | | | | | | | | | | | | | |
| 4 Total number of runs collectively for R,Y and B phase are indicated. Cable runs and cable sizes are indicative and actual cable size shall be informed during review of documents post order without any time or cost implication. | | | | | | | | | | | | | | | | | | | | | | | |
| 5 Gas Insulated surge arrestor shall be provided in incomers and all outgoing feeders. Line PT and Bus PT shall also be Gas Insulated Type. | | | | | | | | | | | | | | | | | | | | | | | |
| 6 Bus differential protection and Bus wire check supervision shall be provided for the switchboard including corresponding CTs. | | | | | | | | | | | | | | | | | | | | | | | |
| 7 Independent Bus PT panel shall be provided for all the four buses of the Double Bus GIS switchboard. | | | | | | | | | | | | | | | | | | | | | | | |

ANNEXURE: BOQ_66kV GIS_SUPPLY_BPCL Bina

REV No: 01

DATE: 03.06.2025

| Sl. No. | Item Description | Unit | Qty. | Remarks |
|---------|---|------|------|--|
| 1.0 | SUPPLY- GIS: 66kV, 40KA FOR 3S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS (Two/ Double bus scheme) | | | |
| | 66kV GIS | | | |
| 1.01 | GIS SUPPLY: 66kV, 3150A, 40kA, SF6 GIS BUS BAR MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS | SET | 4 | |
| 1.02 | GIS SUPPLY: 66kV, 40kA, SF6 BUS PT/ VT BAY MODULE WITH BUS EARTH SWITCH (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS | SET | 4 | 66kV PT/ VT BAY MODULE shall include following but not limited to, (a) 1 SET- 1 NO x3 phase Disconnecter with Maintenance Grounding Switch, complete with operating mechanism. (b) 1 SET- 1 NO x3 phase High Speed make proof Earthing Switch, complete with operating mechanism. (c) 3 NO- 1 phase multi winding Voltage Transformer with residual Current Circuit Breaker arrangement In addition to above, Gas device, UHF sensors, Pressure Switches, Expansion joints/ Flexible connections, Insulators etc. as applicable shall be included, however, Online PD Monitoring System, Local Control Cubicle and End Terminations, if applicable shall be covered separately. GIS shall be complete with all necessary terminal boxes, inspection windows, SF6 gas, grounding connection, pipings for gas monitoring system, trays, support structures with mounting hardwares, walkways, interconnecting cables with glands, ferrules, lugs etc. Please refer section-2 (TS for EHV GIS)- Technical Specification. |
| 1.03 | GIS BAY SUPPLY: 66kV, 3150A, 40 kA, SF6 INCOMING GIS TRANSFORMER FEEDER BAY MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS | SET | 3 | 66kV INCOMING GIS TRANSFORMER FEEDER BAY MODULE shall include following but not limited to, (a) 1 SET- 1 NO x3 phase Circuit Breaker, complete with operating mechanism (b) 2 SET- 1 NO x3 phase Disconnecter with Maintenance Grounding Switch, complete with operating mechanism. (c) 1 SET- 1 NO x3 phase Disconnecter without Maintenance Grounding Switch, complete with operating mechanism. (d) 1 SET- 1 NO x3 phase High Speed make proof Earthing Switch, complete with operating mechanism. (e) 6 NO- 1 phase multi ratio Current Transformer. In addition to above, Gas device, UHF sensors, Pressure Switches, Expansion joints/ Flexible connections, Insulators etc. as applicable, however, Controlled Switching Device (CSD), Online PD Monitoring System, Local Control Cubicle and End Terminations, Surge Arresters, if applicable shall be covered separately. GIS shall be complete with all necessary terminal boxes, inspection windows, SF6 gas, grounding connection, pipings for gas monitoring system, trays, support structures with mounting hardwares, walkways, interconnecting cables with glands, ferrules, lugs etc. Please refer section-2 (TS for EHV GIS)- Technical Specification. |
| 1.04 | GIS BAY SUPPLY: 66kV, 3150A, 50kA, SF6 GIS BUS COUPLER BAY MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS | SET | 2 | 66kV GIS BUS COUPLER BAY MODULE shall include following but not limited to, (a) 1 SET- 1 NO x3 phase Circuit Breaker, complete with operating mechanism (b) 2 SET- 1 NO x3 phase Disconnecter with Maintenance Grounding Switch, complete with operating mechanism. (c) 6 NO- 1 phase multi ratio Current Transformer. In addition to above, Gas device, UHF sensors, Pressure Switches, Expansion joints/ Flexible connections, Insulators etc. as applicable, however, Controlled Switching Device (CSD), Online PD Monitoring System (OPMS), Local Control Cubicle (LCC) and End Terminations, if applicable shall be covered separately. GIS shall be complete with all necessary terminal boxes, inspection windows, SF6 gas, grounding connection, pipings for gas monitoring system, trays, support structures with mounting hardwares, walkways, interconnecting cables with glands, ferrules, lugs etc. Please refer section-2 (TS for EHV GIS)- Technical Specification. |
| 1.05 | GIS BAY SUPPLY: 66kV, 3150A, 40kA, SF6 GIS BUS SECTIONALISER BAY MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS | SET | 2 | 66kV GIS BUS SECTIONALISAER BAY MODULE shall include following but not limited to, (a) 1 SET- 1 NO x3 phase Circuit Breaker, complete with operating mechanism (b) 2 SET- 1 NO x3 phase Disconnecter with Maintenance Grounding Switch, complete with operating mechanism. (c) 6 NO- 1 phase multi ratio Current Transformer. In addition to above, Gas device, UHF sensors, Pressure Switches, Expansion joints/ Flexible connections, Insulators etc. as applicable, however, Controlled Switching Device (CSD), Online PD Monitoring System (OPMS), Local Control Cubicle (LCC) and End Terminations, if applicable shall be covered separately. GIS shall be complete with all necessary terminal boxes, inspection windows, SF6 gas, grounding connection, pipings for gas monitoring system, trays, support structures with mounting hardwares, walkways, interconnecting cables with glands, ferrules, lugs etc. Please refer section-2 (TS for EHV GIS)- Technical Specification. |
| 1.06 | GIS BAY SUPPLY: 66kV, 3150A, 50 kA, SF6 OUTGOING GIS TRANSFORMER FEEDER BAY MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS | SET | 2 | 66kV GIS TRANSFORMER FEEDER BAY MODULE shall include following but not limited to, (a) 1 SET- 1 NO x3 phase Circuit Breaker, complete with operating mechanism (b) 2 SET- 1 NO x3 phase Disconnecter with Maintenance Grounding Switch, complete with operating mechanism. (c) 1 SET- 1 NO x3 phase Disconnecter without Maintenance Grounding Switch, complete with operating mechanism. (d) 1 SET- 1 NO x3 phase High Speed make proof Earthing Switch, complete with operating mechanism. (e) 6 NO- 1 phase multi ratio Current Transformer. (f) 3 NO- Cable connection module suitable upto 1Rx1000sqmm XLPE Cable. (additional requirement, if any shall be payable as per other line item) In addition to above, Gas device, UHF sensors, Pressure Switches, Expansion joints/ Flexible connections, Insulators etc. as applicable, however, Controlled Switching Device (CSD), Online PD Monitoring System, Local Control Cubicle and End Terminations, Surge Arresters, if applicable shall be covered separately. GIS shall be complete with all necessary terminal boxes, inspection windows, SF6 gas, grounding connection, pipings for gas monitoring system, trays, support structures with mounting hardwares, walkways, interconnecting cables with glands, ferrules, lugs etc. Please refer section-2 (TS for EHV GIS)- Technical Specification. |
| 1.07 | GIS BAY SUPPLY: 66kV, 3150A, 50kA, SF6 OUTGOING GIS SPARE TRANSFORMER FEEDER BAY (FULLY EQUIPPED) MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS | SET | 28 | 66kV OUTGOING GIS SPARE FEEDER BAY MODULE shall include following but not limited to, (a) 1 SET- 1 NO x3 phase Circuit Breaker, complete with operating mechanism (b) 2 SET- 1 NO x3 phase Disconnecter with Maintenance Grounding Switch, complete with operating mechanism. (c) 1 SET- 1 NO x3 phase Disconnecter without Maintenance Grounding Switch, complete with operating mechanism. (d) 1 SET- 1 NO x3 phase High Speed make proof Earthing Switch, complete with operating mechanism. (e) 6 NO- 1 phase multi ratio Current Transformer. (f) 3 NO- Cable connection module suitable upto 1Rx1000sqmm XLPE Cable. (additional requirement, if any shall be payable as per other line item) In addition to above, Gas device, UHF sensors, Pressure Switches, Expansion joints/ Flexible connections, Insulators etc. as applicable, however, Controlled Switching Device (CSD), Online PD Monitoring System, Local Control Cubicle and End Terminations, Surge Arresters, if applicable shall be covered separately. GIS shall be complete with all necessary terminal boxes, inspection windows, SF6 gas, grounding connection, pipings for gas monitoring system, trays, support structures with mounting hardwares, walkways, interconnecting cables with glands, ferrules, lugs etc. Please refer section-2 (TS for 66kV GIS)- Technical Specification. |

ANNEXURE: BOQ_66kV GIS_SUPPLY_BPCL Bina

REV No: 01

DATE: 03.06.2025

| Sl. No. | Item Description | Unit | Qty. | Remarks |
|---|---|------|------|--|
| 1.08 | GIS BAY SUPPLY: 66kV, 3150A, 40kA, SF6 OUTGOING GIS SPARE TRANSFORMER FEEDER BAY (FULLY EQUIPPED) MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS | SET | 1 | 66kV OUTGOING GIS SPARE FEEDER BAY MODULE shall include following but not limited to, (a) 1 SET- 1 NO x3 phase Circuit Breaker, complete with operating mechanism (b) 2 SET- 1 NO x3 phase Disconnector with Maintenance Grounding Switch, complete with operating mechanism. (c) 1 SET- 1 NO x3 phase Disconnector without Maintenance Grounding Switch, complete with operating mechanism. (d) 1 SET- 1 NO x3 phase High Speed make proof Earthing Switch, complete with operating mechanism. (e) 6 NO- 1 phase multi ratio Current Transformer. (f) 3 NO- Cable connection module suitable upto 1Rx1000sqmm XLPE Cable. (additional requirement, if any shall be payable as per other line item) In addition to above, Gas device, UHF sensors, Pressure Switches, Expansion joints/ Flexible connections, Insulators etc. as applicable, however, Controlled Switching Device (CSD), Online PD Monitoring System, Local Control Cubicle and End Terminations, Surge Arresters, if applicable shall be covered separately. GIS shall be complete with all necessary terminal boxes, inspection windows, SF6 gas, grounding connection, pipings for gas monitoring system, trays, support structures with mounting hardwares, walkways, interconnecting cables with glands, ferrules, lugs etc. Please refer section-2 (TS for 66kV GIS)- Technical Specification. |
| 1.09 | GIS SUPPLY: 66kV, 1 PHASE SURGE ARRESTER WITH SURGE COUNTER (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) | NO | 114 | Please refer section-2 (TS for 66kV GIS)- Technical Specification. It is considered for INCOMING BAYS & BUS BAR MODULE only. |
| 1.10 | GIS SUPPLY: 66kV, 1 PHASE CABLE CONNECTION MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) | NO | 27 | Please refer section-2 (TS for 66kV GIS)- Technical Specification. This is an optional item and shall be used, as per requirement. This shall suitable upto 1Rx1000sqmm XLPE Cable. (additional requirement, if any shall be payable as per other line item) |
| 1.11 | GIS SUPPLY: 66kV, 1 PHASE VOLTAGE TRANSFORMER (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) | NO | 1 | Please refer section-2 (TS for 66kV GIS)- Technical Specification. This is an optional item and shall be used, as per requirement. |
| 1.12 | SUPPLY- GIS : 66kV, 3150A, 1 PHASE GAS INSULATED BUS DUCT (INCLUDING SF6 GAS, STRUCTURE WITH HARDWARES AND EARTHING MATERIALS) | MTRS | 90 | Please refer section-2 (TS for 66kV GIS)- Technical Specification. |
| 1.13 | GIS SUPPLY: 66kV, 3150, 1 PHASE SF6 TO OIL BUSHING (POLYMER) (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) | NO | 9 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 1.14 | GIS SUPPLY: LOCAL CONTROL CUBICLES FOR GIS | SET | 38 | Please refer section-2 (TS for 66kV GIS)- Technical Specification. It is considered for ALL BAYS only. |
| 1.15 | GIS SUPPLY: ONLINE PARTIAL DISCHARGE (PD) | SET | 1 | Please refer section-2 (TS for 66kV GIS)- Technical Specification. |
| 66kV GIS- IBP | | | | |
| 1.16 | GIS SUPPLY: 66 KV, 800A, 40kA, SF6 GAS INSULATED ISOLATING BREAKER PANEL WITH SF6 CIRCUIT BREAKER (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS | NO | 2 | 66kV SF6 GAS INSULATED ISOLATING BREAKER PANEL WITH SF6 CIRCUIT BREAKER shall include following but not limited to, (a) 1 SET- 1 NO x3 phase Circuit Breaker, complete with operating mechanism (b) 1 SET- 1 NO x3 phase Disconnector with Maintenance Grounding Switch, complete with operating mechanism. (c) 1 SET- 1 NO x3 phase High Speed make proof Earthing Switch, complete with operating mechanism. (e) 6 NO- 1 phase multi ratio Current Transformer. (f) 6 NO- Cable connection module suitable upto 1Rx1000sqmm XLPE Cable. (additional requirement, if any shall be payable as per other line item) In addition to above, Gas device, UHF sensors, Pressure Switches, Expansion joints/ Flexible connections, Insulators etc. as applicable, however, Controlled Switching Device (CSD), Online PD Monitoring System, Local Control Cubicle and End Terminations, Surge Arresters, if applicable shall be covered separately. GIS shall be complete with all necessary terminal boxes, inspection windows, SF6 gas, grounding connection, pipings for gas monitoring system, trays, support structures with mounting hardwares, walkways, interconnecting cables with glands, ferrules, lugs etc. Please refer section-2 (TS for 66kV GIS)- Technical Specification. |
| 1.17 | GIS SUPPLY: 66 KV, 630A, 40kA, SF6 GAS INSULATED ISOLATING BREAKER PANEL WITH SF6 CIRCUIT BREAKER (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS | NO | 26 | 66kV SF6 GAS INSULATED ISOLATING BREAKER PANEL WITH SF6 CIRCUIT BREAKER shall include following but not limited to, (a) 1 SET- 1 NO x3 phase Circuit Breaker, complete with operating mechanism (b) 1 SET- 1 NO x3 phase Disconnector with Maintenance Grounding Switch, complete with operating mechanism. (c) 1 SET- 1 NO x3 phase High Speed make proof Earthing Switch, complete with operating mechanism. (e) 6 NO- 1 phase multi ratio Current Transformer. (f) 6 NO- Cable connection module suitable upto 1Rx1000sqmm XLPE Cable. (additional requirement, if any shall be payable as per other line item) In addition to above, Gas device, UHF sensors, Pressure Switches, Expansion joints/ Flexible connections, Insulators etc. as applicable, however, Controlled Switching Device (CSD), Online PD Monitoring System, Local Control Cubicle and End Terminations, Surge Arresters, if applicable shall be covered separately. GIS shall be complete with all necessary terminal boxes, inspection windows, SF6 gas, grounding connection, pipings for gas monitoring system, trays, support structures with mounting hardwares, walkways, interconnecting cables with glands, ferrules, lugs etc. Please refer section-2 (TS for 66kV GIS)- Technical Specification. |
| 1.18 | GIS SUPPLY: 66kV, 1 PHASE CABLE CONNECTION MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) | NO | 54 | Please refer section-2 (TS for 66kV GIS)- Technical Specification. This is an optional item and shall be used, as per requirement. This shall |
| 1.19 | GIS SUPPLY: LOCAL CONTROL CUBICLES FOR GIS IBP | SET | 28 | Please refer section-2 (TS for 66kV GIS)- Technical Specification. It is considered for ALL BAYS only. |
| 1.20 | GIS SUPPLY: 66kV, 1 PHASE SURGE ARRESTER WITH SURGE COUNTER (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) | NO | 84 | Please refer section-2 (TS for 66kV GIS)- Technical Specification. It is considered for INCOMING BAYS & BUS BAR MODULE only. |
| | | | | |
| | | | | |
| 2.0 SUPPLY- GIS: SPECIAL TOOLS AND TESTING & MAINTENANCE INSTRUMENTS AS PER TS | | | | |
| 66kV GIS | | | | |
| 2.01 | GIS SUPPLY: 66kV GIS- ONLINE PORTABLE SF6 GAS FILLING AND EVACUATION CART | NO | 1 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.02 | GIS SUPPLY: 66kV GIS- HANDLE FOR DISCONNECTOR SWITCH DRIVE | NO | 4 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |

ANNEXURE: BOQ_66kV GIS_SUPPLY_BPCL Bina

REV No: 01

DATE: 03.06.2025

| Sl. No. | Item Description | Unit | Qty. | Remarks |
|----------------------|---|------|------|---|
| 2.03 | GIS SUPPLY: 66kV GIS- HANDLE FOR EARTHING SWITCH DRIVE | NO | 4 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.04 | GIS SUPPLY: 66kV GIS- PRE SELECTION/ MECHANICAL KEY | NO | 1 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.05 | GIS SUPPLY: 66kV GIS- POWER CABLE TERMINATION KIT ALONG WITH PLUG AND SOCKET (R, Y, B PHASES) | SET | 2 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.06 | GIS SUPPLY: 66kV GIS- TRIPPING COIL | NO | 2 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.07 | GIS SUPPLY: 66kV GIS- CLOSING COIL | NO | 2 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.08 | GIS SUPPLY: 66kV GIS- CAPACITIVE TYPE VOLTAGE DETECTORS | SET | 1 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.09 | GIS SUPPLY: 66kV GIS- CONTROL FUSES/ MCB (1 SET= 10 NO OF EACH RATING & TYPE) | SET | 1 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.10 | GIS SUPPLY: 66kV GIS- DENSITY MONITORING DEVICE (1 SET= 2 NO OF EACH TYPE) | SET | 1 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.11 | GIS SUPPLY: 66kV GIS- INDICATING LAMP COVERS (1 SET= 5 NO OF EACH COLOUR) | SET | 1 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.12 | GIS SUPPLY: 66kV GIS- INDICATING LAMPS (1 SET= 20% OR 3 NO (MIN), WHICHEVER IS MORE) | SET | 1 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.13 | GIS SUPPLY: 66kV GIS- PORTABLE SF6 GAS LEAKAGE DETECTOR | NO | 1 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.14 | GIS SUPPLY: 66kV GIS- ETHERNET SWITCH (1 SET= 1 NO OF EACH TYPE) | SET | 1 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.15 | GIS SUPPLY: 66kV GIS- PRESSURE GAUGE (1 SET= 2 NO OF EACH TYPE) | SET | 1 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.16 | GIS SUPPLY: 66kV GIS- SF6 GAS ANALYSER | SET | 1 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.17 | GIS SUPPLY: 66kV GIS- PORTABLE PARTIAL DISCHARGE (PD) MONITORING SYSTEM (1 SET= 1 NO) | SET | 1 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 66kV GIS- IBP | | | | |
| 2.18 | GIS SUPPLY: 66kV GIS IBP- ONLINE PORTABLE SF6 GAS FILLING AND EVACUATION CART | NO | 1 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.19 | GIS SUPPLY: 66kV GIS IBP- HANDLE FOR DISCONNECTOR SWITCH DRIVE | NO | 4 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.20 | GIS SUPPLY: 66kV GIS IBP- HANDLE FOR EARTHING SWITCH DRIVE | NO | 4 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.21 | GIS SUPPLY: 66kV GIS IBP- PRE SELECTION/ MECHANICAL KEY | NO | 1 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.22 | GIS SUPPLY: 66kV GIS IBP- POWER CABLE TERMINATION KIT ALONG WITH PLUG AND SOCKET (R, Y, B PHASES) | SET | 2 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.23 | GIS SUPPLY: 66kV GIS IBP- TRIPPING COIL | NO | 2 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.24 | GIS SUPPLY: 66kV GIS IBP- CLOSING COIL | NO | 2 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.25 | GIS SUPPLY: 66kV GIS IBP- CAPACITIVE TYPE VOLTAGE DETECTORS | SET | 1 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.26 | GIS SUPPLY: 66kV GIS IBP- CONTROL FUSES/ MCB (1 SET= 10 NO OF EACH RATING & TYPE) | SET | 1 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.27 | GIS SUPPLY: 66kV GIS IBP- DENSITY MONITORING DEVICE (1 SET= 2 NO OF EACH TYPE) | SET | 1 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.28 | GIS SUPPLY: 66kV GIS IBP- INDICATING LAMP COVERS (1 SET= 5 NO OF EACH COLOUR) | SET | 1 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.29 | GIS SUPPLY: 66kV GIS IBP- INDICATING LAMPS (1 SET= 20% OR 3 NO (MIN), WHICHEVER IS MORE) | SET | 1 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.30 | GIS SUPPLY: 66kV GIS IBP- PORTABLE SF6 GAS LEAKAGE DETECTOR | NO | 1 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.31 | GIS SUPPLY: 66kV GIS IBP- ETHERNET SWITCH (1 SET= 1 NO OF EACH TYPE) | SET | 1 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.32 | GIS SUPPLY: 66kV GIS IBP- PRESSURE GAUGE (1 SET= 2 NO OF EACH TYPE) | SET | 1 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.33 | GIS SUPPLY: 66kV GIS IBP- SF6 GAS ANALYSER | SET | 1 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| 2.34 | GIS SUPPLY: 66kV GIS IBP- PORTABLE PARTIAL DISCHARGE (PD) MONITORING SYSTEM (1 SET= 1 NO) | SET | 1 | Please refer section-2 (TS for 220kV GIS)- Technical Specification. |
| | | | | |

ANNEXURE: BOQ_66kV GIS_SUPPLY_BPCL Bina

REV No: 01

DATE: 03.06.2025

| Sl. No. | Item Description | Unit | Qty. | Remarks |
|---------|---|------|------|--|
| 3.0 | SPARES- GIS: 66KV, 40KA FOR 3S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS | | | |
| 3.01 | GIS SPARES: RECOMMENDED SPARES FOR 2 YEARS OF NORMAL OPERATION AND MAINTENANCE | SET | 1 | |
| 4.0 | SUPPLY- GIS: REFERENCE UNIT PRICE FOR ADDITION/ DELETION OF SUPPLY ITEMS (Unit Prices of Individual Equipment included here or in manadatory spares are required for any Addition/Deletion of Equipment and replacement of damaged items. Bidder to ensure that the unit prices have a logical relationship with prices of assemblies in main items. Quoting for unit prices is | | | |
| 4.01 | SUPPLY- GIS: SPARES: 66KV, OPERATING MECHANISM FOR CIRCUIT BREAKER COMPLETE IN ALL RESPECT | SET | 1 | |
| 4.02 | SUPPLY- GIS: SPARES: 66KV, OPERATING MECHANISM FOR DISCONNECTOR COMPLETE IN ALL RESPECT | SET | 1 | |
| 4.03 | SUPPLY- GIS: SPARES: 66KV, OPERATING MECHANISM FOR MAINTENANCE EARTHING SWITCH COMPLETE IN ALL RESPECT | SET | 1 | |
| 4.04 | SUPPLY- GIS: SPARES: 66KV, OPERATING MECHANISM FOR FAST ACTING/ HIGH SPEED GROUNDING SWITCH COMPLETE IN ALL RESPECT | SET | 1 | |
| 4.05 | SUPPLY- GIS: SPARES: 66KV, MAINTENANCE EARTHING SWITCH COMPLETE IN ALL RESPECT | SET | 1 | |
| 4.06 | SUPPLY- GIS: SPARES: 66KV, FAST ACTING/ HIGH SPEED GROUNDING SWITCH COMPLETE IN ALL RESPECT | SET | 1 | |
| 4.07 | SUPPLY- GIS: SPARES: 66KV, SINGLE PHASE BUS BAR | MTRS | 1 | Complete in all respect. |
| 4.08 | SUPPLY- GIS: SPARES: 66KV, GIS METALLIC ENCLOSURE | KGS | 50 | |
| 4.09 | SUPPLY- GIS: SPARES: 66KV, EXPANSION JOINTS | SET | 1 | 1set= 1 nos. of each type and each rating. |
| 4.10 | SUPPLY- GIS: SPARES: 66KV, FLEXIBLE CONNECTIONS | SET | 1 | 1set= 1 nos. of each type and each rating. |
| 4.11 | SUPPLY- GIS: SPARES: 66KV, BARRIER INSULATOR | SET | 1 | 1set= 1 nos. of each type and each rating. |
| 4.12 | SUPPLY- GIS: SPARES: 66KV, NON-BARRIER INSULATOR | SET | 1 | 1set= 1 nos. of each type and each rating. |
| 4.13 | SUPPLY- GIS: SPARES: 66KV, GAS SEALS | SET | 1 | 1set= 1 nos. of each type and each rating. |
| 4.14 | SUPPLY- GIS: SPARES: 66KV, GAS DENSITY MONITOR SWITCH | SET | 1 | 1set= 1 nos. of each type and each rating. |
| 4.15 | SUPPLY- GIS: SPARES: 66KV, GAS PRESSURE SWITCH | SET | 1 | 1set= 1 nos. of each type and each rating. |
| 4.16 | SUPPLY- GIS: SPARES: 66KV, TEE BEND | SET | 1 | 1set= 1 nos. of each type and each rating. |
| 4.17 | SUPPLY- GIS: SPARES: 66KV, ANGLE BEND | SET | 1 | 1set= 1 nos. of each type and each rating. |
| 4.18 | SUPPLY- GIS: SPARES: 66KV, L-BEND | SET | 1 | 1set= 1 nos. of each type and each rating. |
| 4.19 | SUPPLY- GIS: SPARES: 66KV, VOLATGE DETECTORS | SET | 1 | 1set= 1 nos. of each type and each rating. |

ANNEXURE BOQ 66kV GIS SERVICE BPCL Bina

REV No: 01

DATE: 03.06.2025

| Sl. No. | Description | Unit | Quantity | Remarks |
|------------|---|------|----------|---|
| 5.0 | SERVICES- GIS : 66KV, 40KA FOR 3S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS | | | |
| | 66kV GIS | | | |
| 5.01 | SERVICES- 66kV GIS: SUPERVISION OF ERECTION OF GIS | Bays | 38 | Supervision of erection of GIS with main bus including BUS VT Bays, complete as per TS in all respect including LCC and its accessories. It also includes verification of materials for proper storage at site for final storage. Earthing, SF6 Gas Filing works, Internal Cabling from GIS to LCC, including Structure Works are covered under this item. Surge Arrester, Voltage Transformer, Cable Connection Module are not covered in this BOQ item. |
| 5.02 | SERVICES- 66kV GIS: SUPERVISION OF ERECTION OF 1 PHASE SURGE ARRESTER WITH SURGE COUNTER | SET | 114 | Supervision of erection of Surge Arrester complete as per TS in all respect. Earthing, SF6 Gas Filing works, Internal Cabling with tray work, including Structure Works are covered under this item. |
| 5.03 | SERVICES- 66kV GIS: SUPERVISION OF ERECTION OF 1 PHASE CABLE CONNECTION MODULE | NO | 120 | Supervision of erection of Additional Cable Connection Module complete as per TS in all respect. Earthing, SF6 Gas Filing works, Internal Cabling with tray work, including Structure Works are covered under this item. |
| 5.04 | SERVICES- 66kV GIS: SUPERVISION OF ERECTION OF 1-PHASE GAS INSULATED BUS DUCT | MTR | 90 | Supervision of erection of GIB complete as per TS in all respect. GIB shall be considered from first equipment of GIS. Earthing, SF6 Gas Filing works, Internal Cabling with tray work including Structure Works are covered under this item. |
| 5.05 | SERVICES- 220kV GIS: SUPERVISION OF ERECTION OF 1 PHASE SF6 TO OIL BUSHING (POLYMER) | SET | 9 | Supervision of erection of SF6 to Oil Bushing complete as per TS in all respect. Earthing, SF6 Gas Filing works, Internal Cabling with tray work, including Structure Works are covered under this item. |
| 5.06 | SERVICES- 66kV GIS: TESTING & COMMISSIONING OF GIS | Bays | 38 | Testing and commissioning of complete GIS system including main bus, LCC and associated system (LA, VT, CSD, Cable Connection Module etc.) is to be executed by bidder. All the special testing instruments, kits, T&P etc. are to be arranged by bidder on returnable basis. Please refer relevant section of technical specification for details. |
| 5.07 | SERVICES- 66kV GIS : FINAL SUCCESSFUL HV/ POWER FREQUENCY TESTING OF GIS INCLUDING ARRANGING OF HV TEST KIT ALONG WITH OPERATOR | Bays | 38 | Carrying out successful HV/ Power Frequency Testing of GIS as per IEC including Arrangement of HV Test kit with operator (on returnable basis) shall be in scope of bidder, which includes charges of HV test kit with operator, accessories & tools required for completion of HV testing. The quoted price shall include GIS bays including Main Bus, GIB, SAB/SOB and other common items as per TS complete in all respect. In this BOQ item, mobilization and demobilization for HV test kit is considered for once. In case of more, for reasons not attributable to bidder, same shall be paid extra as per BOQ Item. |
| | 66kV GIS- IBP | | | |
| 5.08 | SERVICES- 66kV GIS: SUPERVISION OF ERECTION OF GIS IBP | Bays | 28 | Supervision of erection of GIS with main bus including BUS VT Bays, complete as per TS in all respect including LCC and its accessories. It also includes verification of materials for proper storage at site for final storage. Earthing, SF6 Gas Filing works, Internal Cabling from GIS to LCC, including Structure Works are covered under this item. Surge Arrester, Voltage Transformer, Cable Connection Module are not covered in this BOQ item. |
| 5.09 | SERVICES- 66kV GIS: SUPERVISION OF ERECTION OF 1 PHASE SURGE ARRESTER WITH SURGE COUNTER OF GIS IBP | SET | 84 | Supervision of erection of Surge Arrester complete as per TS in all respect. Earthing, SF6 Gas Filing works, Internal Cabling with tray work, including Structure Works are covered under this item. |
| 5.10 | SERVICES- 66kV GIS: SUPERVISION OF ERECTION OF 1 PHASE CABLE CONNECTION MODULE OF GIS IBP | NO | 222 | Supervision of erection of Additional Cable Connection Module complete as per TS in all respect. Earthing, SF6 Gas Filing works, Internal Cabling with tray work, including Structure Works are covered under this item. |
| 5.11 | SERVICES- 66kV GIS: TESTING & COMMISSIONING OF GIS IBP | Bays | 28 | Testing and commissioning of complete GIS system including main bus, LCC and associated system (LA, VT, CSD, Cable Connection Module etc.) is to be executed by bidder. All the special testing instruments, kits, T&P etc. are to be arranged by bidder on returnable basis. Please refer relevant section of technical specification for details. |

ANNEXURE BOQ 66kV GIS SERVICE BPCL Bina

REV No: 01

DATE: 03.06.2025

| Sl. No. | Description | Unit | Quantity | Remarks |
|---------|---|------|----------|---|
| 5.12 | SERVICES- 66kV GIS : FINAL SUCCESSFUL HV/ POWER FREQUENCY TESTING OF GIS INCLUDING ARRANGING OF HV TEST KIT ALONG WITH OPERATOR | Bays | 28 | Carrying out successful HV/ Power Frequency Testing of GIS as per IEC including Arrangement of HV Test kit with operator (on returnable basis) shall be in scope of bidder, which includes charges of HV test kit with operator, accessories & tools required for completion of HV testing. The quoted price shall include GIS bays including Main Bus, GIB, SAB/SOB and other common items as per TS complete in all respect. In this BOQ item, mobilization and demobilization for HV test kit is considered for once. In case of more, for reasons not attributable to bidder, same shall be paid extra as per BOQ Item. |
| 5.13 | SERVICES- 66kV GIS : 3D MODEL FOR 66kV GIS | LOT | 1 | Please refer TS. |
| 5.14 | SERVICES- 66kV GIS : INSULATION CO-ORDINATION STUDIES FOR GIS SYSTEM | LOT | 1 | 1 Lot means Complete study report as per technical specification, Including VFTO report. |
| 5.15 | SERVICES- 66kV GIS : TRAINING FOR GIS AT SITE (GIS/ ONLINE PARTIAL DISCHARGE MONITORING SYSTEM) | DAY | 7 | Training of ten OWNER's personnel & two BHEL's personnel for a period of at least Seven days at site |
| 5.16 | SERVICES- 66kV GIS : TRAINING FOR GIS AT MANUFACTURER WORKS | DAY | 7 | Training of two OWNER's personnel & two BHEL's personnel for a period of at least Seven days at manufacturer's works |

| | | | | |
|------|---|--------|----|--|
| 6.0 | SERVICES- GIS : REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SERVICES: (UNIT PRICES OF INDIVIDUAL SERVICES INCLUDED HERE ARE REQUIRED FOR ANY ADDITION/DELETION OF EQUIPMENT AND REPLACEMENT OF DAMAGED ITEMS. VENDOR TO ENSURE THAT THE UNIT PRICES HAVE A LOGICAL RELATIONSHIP WITH PRICES OF ASSEMBLIES IN MAIN ITEMS. QUOTING FOR UNIT PRICES IS MANDATORY AND SHALL BE CONSIDERED FOR EVALUATION) | | | |
| 6.01 | SERVICES- 66kV GIS: REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - SERVICES FOR SUPERVISION OF ERECTION OF GIS | MANDAY | 10 | Charges for repetition of services - (if required due to reasons not attributed to the bidder) This item will be executed only if repetition of services is required by BHEL. |
| 6.02 | SERVICES- 66kV GIS: REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - SERVICES FOR TESTING & COMMISSIONING OF GIS | MANDAY | 10 | Charges for repetition of services - (if required due to reasons not attributed to the bidder) This item will be executed only if repetition of services is required by BHEL. |
| | DEMOBILIZATION AND REMOBILIZATION CHARGES | | | |
| 6.03 | SERVICES- 66kV GIS: DEMOBILIZATION AND REMOBILIZATION CHARGES FOR GIS ERECTION SUPERVISION TEAM | Set | 2 | THIS BOQ ITEM SHALL BE PAYABLE IF REQUIRED FOR REASONS NOT ATTRIBUTABLE TO BIDDER. |
| 6.04 | SERVICES- 66kV GIS: DEMOBILIZATION AND REMOBILIZATION CHARGES FOR GIS TESTING & COMMISSIONING TEAM | Set | 2 | BOQ ITEM SHALL BE PAYABLE IF REQUIRED FOR REASONS NOT ATTRIBUTE TO BIDDER. HV TESTING IS NOT PART OF THIS ITEM. |
| 6.05 | SERVICES- 66kV GIS: DEMOBILIZATION & REMOBILIZATION CHARGES OF HV TEST KIT ALONG WITH OPERATOR | Lot | 1 | In this BOQ item, mobilization and demobilization chages for HV test kit is considered for second time or more , for reasons not attributable to bidder. HV testing charges shall be paid per bay basis as per main HV testing charge. |

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: BPCL Bina-66KV GIS

Enquiry/NIT No: NIT No.91739_Enquiry No.61Q2600123 Dated 30-05-2025

| | | | | | | | | | | | | | | | |
|--|---|------------------|----------|--------|---|---|---------------------|---|--|---------------------|---|----------------|---|---|-----------------------|
| Name of the Bidder/ Bidding Firm / Company : | | | | | | | | | | | | | | | |
| <div>PRICE SCHEDULE</div> <div>(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)</div> | | | | | | | | | | | | | | | |
| NUMBER # | TEXT # | TEXT # | NUMBER # | TEXT # | TEXT # | NUMBER # | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER # | NUMBER # | NUMBER # | TEXT # |
| Sl. No. | Item Description | Item Code / Make | Quantity | Units | Quoted Currency in INR / Other Currency | Unit RATE In Figures To be entered by the Bidder in Rs. P | GST (in Percentage) | GST Amount (Unit Rate*Quantity* GST) Rs. P | Unit Freight & Insurance Charges in Rs. P | GST (in Percentage) | GST Amount on F&I (Unit Rate*Quantity*GST) Rs. P | HSN / SAC Code | TOTAL Ex-Works + F & I AMOUNT excluding GST in Rs. P | TOTAL Ex-Works + F & I AMOUNT including GST in Rs. P | TOTAL AMOUNT In Words |
| 1 | 2 | 3 | 4 | 5 | 12 | 13 | 14 | 15 | 16 | 20 | 21 | 51 | 53 | 54 | 55 |
| 1.01 | SUPPLY- GIS: 66kV, 40KA FOR 3S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS (Two/ Double bus scheme) (For item sl. No. 1.01-1.20): GIS SUPPLY: 66kV, 3150A, 40kA, SF6 GIS BUS BAR MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS | item1 | 4 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 1.02 | GIS SUPPLY: 66kV, 40kA, SF6 BUS PT/ VT BAY MODULE WITH BUS EARTH SWITCH (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS | item2 | 4 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 1.03 | GIS BAY SUPPLY: 66kV, 3150A, 40 kA, SF6 INCOMING GIS TRANSFORMER FEEDER BAY MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS | item3 | 3 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 1.04 | GIS BAY SUPPLY: 66kV, 3150A, 50kA, SF6 GIS BUS COUPLER BAY MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS | item4 | 2 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 1.05 | GIS BAY SUPPLY: 66kV, 3150A, 40kA, SF6 GIS BUS SECTIONALISER BAY MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS | item5 | 2 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 1.06 | GIS BAY SUPPLY: 66kV, 3150A, 50 kA, SF6 OUTGOING GIS TRANSFORMER FEEDER BAY MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS | item6 | 2 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 1.07 | GIS BAY SUPPLY: 66kV, 3150A, 50kA, SF6 OUTGOING GIS SPARE TRANSFORMER FEEDER BAY (FULLY EQUIPPED) MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS | item7 | 28 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 1.08 | GIS BAY SUPPLY: 66kV, 3150A, 40kA, SF6 OUTGOING GIS SPARE TRANSFORMER FEEDER BAY (FULLY EQUIPPED) MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS | item8 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 1.09 | GIS SUPPLY: 66KV, 1 PHASE SURGE ARRESTER WITH SURGE COUNTER (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) | item9 | 114 | NO | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 1.10 | GIS SUPPLY: 66kV, 1 PHASE CABLE CONNECTION MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) | item10 | 27 | NO | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 1.11 | GIS SUPPLY: 66kV, 1 PHASE VOLTAGE TRASNFORMER (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) | item11 | 1 | NO | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 1.12 | SUPPLY- GIS : 66KV, 3150A, 1 PHASE GAS INSULATED BUS DUCT (INCLUDING SF6 GAS, STRUCTURE WITH HARDWARES AND EARTHING MATERIALS) | item12 | 90 | MTRS | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: BPCL Bina-66KV GIS

Enquiry/NIT No: NIT No.91739_Enquiry No.61Q2600123 Dated 30-05-2025

| | | | | | | | | | | | | | | | |
|--|---|------------------|----------|--------|---|---|---------------------|---|--|---------------------|---|----------------|---|---|-----------------------|
| Name of the Bidder/ Bidding Firm / Company : | | | | | | | | | | | | | | | |
| <div>PRICE SCHEDULE</div> <div>(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)</div> | | | | | | | | | | | | | | | |
| NUMBER # | TEXT # | TEXT # | NUMBER # | TEXT # | TEXT # | NUMBER # | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER # | NUMBER # | NUMBER # | TEXT # |
| Sl. No. | Item Description | Item Code / Make | Quantity | Units | Quoted Currency in INR / Other Currency | Unit RATE In Figures To be entered by the Bidder in Rs. P | GST (in Percentage) | GST Amount (Unit Rate*Quantity* GST) Rs. P | Unit Freight & Insurance Charges in Rs. P | GST (in Percentage) | GST Amount on F&I (Unit Rate*Quantity*GST) Rs. P | HSN / SAC Code | TOTAL Ex-Works + F & I AMOUNT excluding GST in Rs. P | TOTAL Ex-Works + F & I AMOUNT including GST in Rs. P | TOTAL AMOUNT In Words |
| 1 | 2 | 3 | 4 | 5 | 12 | 13 | 14 | 15 | 16 | 20 | 21 | 51 | 53 | 54 | 55 |
| 1.13 | GIS SUPPLY: 66KV, 3150, 1 PHASE SF6 TO OIL BUSHING (POLYMER) (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) | item13 | 9 | NO | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 1.14 | GIS SUPPLY: LOCAL CONTROL CUBICLES FOR GIS | item14 | 38 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 1.15 | GIS SUPPLY: ONLINE PARTIAL DISCHARGE (PD) MONITORING SYSTEM | item15 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 1.16 | GIS SUPPLY: 66 KV, 800A, 40kA, SF6 GAS INSULATED ISOLATING BREAKER PANEL WITH SF6 CIRCUIT BREAKER (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS | item16 | 2 | NO | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 1.17 | GIS SUPPLY: 66 KV, 630A, 40kA, SF6 GAS INSULATED ISOLATING BREAKER PANEL WITH SF6 CIRCUIT BREAKER (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS | item17 | 26 | NO | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 1.18 | GIS SUPPLY: 66kV, 1 PHASE CABLE CONNECTION MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) | item18 | 54 | NO | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 1.19 | GIS SUPPLY: LOCAL CONTROL CUBICLES FOR GIS IBP | item19 | 28 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 1.20 | GIS SUPPLY: 66KV, 1 PHASE SURGE ARRESTER WITH SURGE COUNTER (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) | item20 | 84 | NO | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.01 | SUPPLY- GIS: SPECIAL TOOLS AND TESTING & MAINTENANCE INSTRUMENTS AS PER TS (For item sl. No. 2.01-2.34): GIS SUPPLY: 66kV GIS- ONLINE PORTABLE SF6 GAS FILLING AND EVACUATION CART | item21 | 1 | NO | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.02 | GIS SUPPLY: 66kV GIS- HANDLE FOR DISCONNECTOR SWITCH DRIVE | item22 | 4 | NO | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.03 | GIS SUPPLY: 66kV GIS- HANDLE FOR EARTHING SWITCH DRIVE | item23 | 4 | NO | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.04 | GIS SUPPLY: 66kV GIS- PRE SELECTION/ MECHANICAL KEY | item24 | 1 | NO | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.05 | GIS SUPPLY: 66kV GIS- POWER CABLE TERMINATION KIT ALONG WITH PLUG AND SOCKET (R, Y, B PHASES) | item25 | 2 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.06 | GIS SUPPLY: 66kV GIS- TRIPPING COIL | item26 | 2 | NO | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.07 | GIS SUPPLY: 66kV GIS- CLOSING COIL | item27 | 2 | NO | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.08 | GIS SUPPLY: 66kV GIS- CAPACITIVE TYPE VOLTAGE DETECTORS | item28 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.09 | GIS SUPPLY: 66kV GIS- CONTROL FUSES/ MCB (1 SET= 10 NO OF EACH RATING & TYPE) | item29 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.10 | GIS SUPPLY: 66kV GIS- DENSITY MONITORING DEVICE (1 SET= 2 NO OF EACH TYPE) | item30 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.11 | GIS SUPPLY: 66kV GIS- INDICATING LAMP COVERS (1 SET= 5 NO OF EACH COLOUR) | item31 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.12 | GIS SUPPLY: 66kV GIS- INDICATING LAMPS (1 SET= 20% OR 3 NO (MIN), WHICHEVER IS MORE) | item32 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.13 | GIS SUPPLY: 66kV GIS- PORTABLE SF6 GAS LEAKAGE DETECTOR | item33 | 1 | NO | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.14 | GIS SUPPLY: 66kV GIS- ETHERNET SWITCH (1 SET= 1 NO OF EACH TYPE) | item34 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: BPCL Bina-66KV GIS

Enquiry/NIT No: NIT No.91739_Enquiry No.61Q2600123 Dated 30-05-2025

| Name of the Bidder/ Bidding Firm / Company : | | | | | | | | | | | | | | | |
|--|---|------------------|----------|--------|---|--|---------------------|---|---|---------------------|---|----------------|--|--|-----------------------|
| <div>PRICE SCHEDULE</div> <div>(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)</div> | | | | | | | | | | | | | | | |
| NUMBER # | TEXT # | TEXT # | NUMBER # | TEXT # | TEXT # | NUMBER # | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER # | NUMBER # | NUMBER # | TEXT # |
| Sl. No. | Item Description | Item Code / Make | Quantity | Units | Quoted Currency in INR / Other Currency | Unit RATE In <div>Figures To be entered by the Bidder in Rs. P</div> | GST (in Percentage) | GST Amount (Unit Rate*Quantity* GST) <div>Rs. P</div> | Unit Freight & Insurance Charges in Rs. P | GST (in Percentage) | GST Amount on F&I (Unit Rate*Quantity*GST) <div>Rs. P</div> | HSN / SAC Code | TOTAL Ex-Works + F & I AMOUNT excluding GST in Rs. P | TOTAL Ex-Works + F & I AMOUNT including GST in Rs. P | TOTAL AMOUNT In Words |
| 1 | 2 | 3 | 4 | 5 | 12 | 13 | 14 | 15 | 16 | 20 | 21 | 51 | 53 | 54 | 55 |
| 2.15 | GIS SUPPLY: 66kV GIS- PRESSURE GAUGE (1 SET= 2 NO OF EACH TYPE) | item35 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.16 | GIS SUPPLY: 66kV GIS- SF6 GAS ANALYSER | item36 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.17 | GIS SUPPLY: 66kV GIS- PORTABLE PARTIAL DISCHARGE (PD) MONITORING SYSTEM (1 SET= 1 NO) | item37 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.18 | GIS SUPPLY: 66kV GIS IBP- ONLINE PORTABLE SF6 GAS FILLING AND EVACUATION CART | item38 | 1 | NO | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.19 | GIS SUPPLY: 66kV GIS IBP- HANDLE FOR DISCONNECTOR SWITCH DRIVE | item39 | 4 | NO | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.20 | GIS SUPPLY: 66kV GIS IBP- HANDLE FOR EARTHING SWITCH DRIVE | item40 | 4 | NO | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.21 | GIS SUPPLY: 66kV GIS IBP- PRE SELECTION/ MECHANICAL KEY | item41 | 1 | NO | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.22 | GIS SUPPLY: 66kV GIS IBP- POWER CABLE TERMINATION KIT ALONG WITH PLUG AND SOCKET (R, Y, B PHASES) | item42 | 2 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.23 | GIS SUPPLY: 66kV GIS IBP- TRIPPING COIL | item43 | 2 | NO | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.24 | GIS SUPPLY: 66kV GIS IBP- CLOSING COIL | item44 | 2 | NO | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.25 | GIS SUPPLY: 66kV GIS IBP- CAPACITIVE TYPE VOLTAGE DETECTORS | item45 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.26 | GIS SUPPLY: 66kV GIS IBP- CONTROL FUSES/ MCB (1 SET= 10 NO OF EACH RATING & TYPE) | item46 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.27 | GIS SUPPLY: 66kV GIS IBP- DENSITY MONITORING DEVICE (1 SET= 2 NO OF EACH TYPE) | item47 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.28 | GIS SUPPLY: 66kV GIS IBP- INDICATING LAMP COVERS (1 SET= 5 NO OF EACH COLOUR) | item48 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.29 | GIS SUPPLY: 66kV GIS IBP- INDICATING LAMPS (1 SET= 20% OR 3 NO (MIN), WHICHEVER IS MORE) | item49 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.30 | GIS SUPPLY: 66kV GIS IBP- PORTABLE SF6 GAS LEAKAGE DETECTOR | item50 | 1 | NO | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.31 | GIS SUPPLY: 66kV GIS IBP- ETHERNET SWITCH (1 SET= 1 NO OF EACH TYPE) | item51 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.32 | GIS SUPPLY: 66kV GIS IBP- PRESSURE GAUGE (1 SET= 2 NO OF EACH TYPE) | item52 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.33 | GIS SUPPLY: 66kV GIS IBP- SF6 GAS ANALYSER | item53 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 2.34 | GIS SUPPLY: 66kV GIS IBP- PORTABLE PARTIAL DISCHARGE (PD) MONITORING SYSTEM (1 SET= 1 NO) | item54 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 3.01 | SPARES- GIS: 66KV, 40KA FOR 3S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS (For item Sl. No. 3.01): GIS SPARES: RECOMMENDED SPARES FOR 2 YEARS OF NORMAL OPERATION AND MAINTENANCE | item55 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: BPCL Bina-66KV GIS

Enquiry/NIT No: NIT No.91739_Enquiry No.61Q2600123 Dated 30-05-2025

| | | | | | | | | | | | | | | | |
|---|--|------------------|----------|--------|---|---|---------------------|---|--|---------------------|---|----------------|---|---|-----------------------|
| Name of the Bidder/ Bidding Firm / Company : | | | | | | | | | | | | | | | |
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| NUMBER # | TEXT # | TEXT # | NUMBER # | TEXT # | TEXT # | NUMBER # | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER # | NUMBER # | NUMBER # | TEXT # |
| Sl. No. | Item Description | Item Code / Make | Quantity | Units | Quoted Currency in INR / Other Currency | Unit RATE In Figures To be entered by the Bidder in Rs. P | GST (in Percentage) | GST Amount (Unit Rate*Quantity* GST) Rs. P | Unit Freight & Insurance Charges in Rs. P | GST (in Percentage) | GST Amount on F&I (Unit Rate*Quantity*GST) Rs. P | HSN / SAC Code | TOTAL Ex-Works + F & I AMOUNT excluding GST in Rs. P | TOTAL Ex-Works + F & I AMOUNT including GST in Rs. P | TOTAL AMOUNT In Words |
| 1 | 2 | 3 | 4 | 5 | 12 | 13 | 14 | 15 | 16 | 20 | 21 | 51 | 53 | 54 | 55 |
| 4.01 | SUPPLY- GIS: REFERENCE UNIT PRICE FOR ADDITION/ DELETION OF SUPPLY ITEMS (Unit Prices of Individual Equipment included here or in manadatory spares are required for any Addition/Deletion of Equipment and replacement of damaged items. Bidder to ensure that the unit prices have a logical relationship with prices of assemblies in main items. Quoting for unit prices is mandatory and shall be considered for evaluation) (For item sl. No.: 4.01-4.19): SUPPLY- GIS: SPARES: 66KV, OPERATING MECHANISM FOR CIRCUIT BREAKER COMPLETE IN ALL RESPECT | item56 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 4.02 | SUPPLY- GIS: SPARES: 66KV, OPERATING MECHANISM FOR DISCONNECTOR COMPLETE IN ALL RESPECT | item57 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 4.03 | SUPPLY- GIS: SPARES: 66KV, OPERATING MECHANISM FOR MAINTENANCE EARTHING SWITCH COMPLETE IN ALL RESPECT | item58 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 4.04 | SUPPLY- GIS: SPARES: 66KV, OPERATING MECHANISM FOR FAST ACTING/ HIGH SPEED GROUNDING SWITCH COMPLETE IN ALL RESPECT | item59 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 4.05 | SUPPLY- GIS: SPARES: 66KV, MAINTENANCE EARTHING SWITCH COMPLETE IN ALL RESPECT | item60 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 4.06 | SUPPLY- GIS: SPARES: 66KV, FAST ACTING/ HIGH SPEED GROUNDING SWITCH COMPLETE IN ALL RESPECT | item61 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 4.07 | SUPPLY- GIS: SPARES: 66KV, SINGLE PHASE BUS BAR | item62 | 1 | MTRS | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 4.08 | SUPPLY- GIS: SPARES: 66KV, GIS METALLIC ENCLOSURE | item63 | 50 | KGS | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 4.09 | SUPPLY- GIS: SPARES: 66KV, EXPANSION JOINTS | item64 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 4.10 | SUPPLY- GIS: SPARES: 66KV, FLEXIBLE CONNECTIONS | item65 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 4.11 | SUPPLY- GIS: SPARES: 66KV, BARRIER INSULATOR | item66 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 4.12 | SUPPLY- GIS: SPARES: 66KV, NON-BARRIER INSULATOR | item67 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 4.13 | SUPPLY- GIS: SPARES: 66KV, GAS SEALS | item68 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 4.14 | SUPPLY- GIS: SPARES: 66KV, GAS DENSITY MONITOR SWITCH | item69 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 4.15 | SUPPLY- GIS: SPARES: 66KV, GAS PRESSURE SWITCH | item70 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 4.16 | SUPPLY- GIS: SPARES: 66KV, TEE BEND | item71 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 4.17 | SUPPLY- GIS: SPARES: 66KV, ANGLE BEND | item72 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 4.18 | SUPPLY- GIS: SPARES: 66KV, L-BEND | item73 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 4.19 | SUPPLY- GIS: SPARES: 66KV, VOLATGE DETECTORS | item74 | 1 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 5.01 | SERVICES- GIS : 66KV, 40KA FOR 3S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS (For item sl. No. 5.01-5.16): SERVICES- 66kV GIS: SUPERVISION OF ERECTION OF GIS | item75 | 38 | Bays | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: BPCL Bina-66KV GIS

Enquiry/NIT No: NIT No.91739_Enquiry No.61Q2600123 Dated 30-05-2025

| Name of the Bidder/ Bidding Firm / Company : | | | | | | | | | | | | | | | |
|--|--|------------------|----------|--------|---|--|---------------------|---|---|---------------------|---|----------------|--|--|-----------------------|
| <div>PRICE SCHEDULE</div> <div>(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)</div> | | | | | | | | | | | | | | | |
| NUMBER # | TEXT # | TEXT # | NUMBER # | TEXT # | TEXT # | NUMBER # | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER # | NUMBER # | NUMBER # | TEXT # |
| Sl. No. | Item Description | Item Code / Make | Quantity | Units | Quoted Currency in INR / Other Currency | Unit RATE In <div>Figures To be entered by the Bidder in Rs. P</div> | GST (in Percentage) | GST Amount (Unit Rate*Quantity* GST) <div>Rs. P</div> | Unit Freight & Insurance Charges in Rs. P | GST (in Percentage) | GST Amount on F&I (Unit Rate*Quantity*GST) <div>Rs. P</div> | HSN / SAC Code | TOTAL Ex-Works + F & I AMOUNT excluding GST in Rs. P | TOTAL Ex-Works + F & I AMOUNT including GST in Rs. P | TOTAL AMOUNT In Words |
| 1 | 2 | 3 | 4 | 5 | 12 | 13 | 14 | 15 | 16 | 20 | 21 | 51 | 53 | 54 | 55 |
| 5.02 | SERVICES- 66kV GIS: SUPERVISION OF ERECTION OF 1 PHASE SURGE ARRESTER WITH SURGE COUNTER | item76 | 114 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 5.03 | SERVICES- 66kV GIS: SUPERVISION OF ERECTION OF 1 PHASE CABLE CONNECTION MODULE | item77 | 120 | NO | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 5.04 | SERVICES- 66kV GIS: SUPERVISION OF ERECTION OF 1- PHASE GAS INSULATED BUS DUCT | item78 | 90 | MTR | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 5.05 | SERVICES- 220kV GIS: SUPERVISION OF ERECTION OF 1 PHASE SF6 TO OIL BUSHING (POLYMER) | item79 | 9 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 5.06 | SERVICES- 66kV GIS: TESTING & COMMISSIONING OF GIS | item80 | 38 | Bays | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 5.07 | SERVICES- 66kV GIS : FINAL SUCCESSFUL HV/ POWER FREQUENCY TESTING OF GIS INCLUDING ARRANGING OF HV TEST KIT ALONG WITH OPERATOR | item81 | 38 | Bays | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 5.08 | SERVICES- 66kV GIS: SUPERVISION OF ERECTION OF GIS IBP | item82 | 28 | Bays | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 5.09 | SERVICES- 66kV GIS: SUPERVISION OF ERECTION OF 1 PHASE SURGE ARRESTER WITH SURGE COUNTER OF GIS IBP | item83 | 84 | SET | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 5.10 | SERVICES- 66kV GIS: SUPERVISION OF ERECTION OF 1 PHASE CABLE CONNECTION MODULE OF GIS IBP | item84 | 222 | NO | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 5.11 | SERVICES- 66kV GIS: TESTING & COMMISSIONING OF GIS IBP | item85 | 28 | Bays | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 5.12 | SERVICES- 66kV GIS : FINAL SUCCESSFUL HV/ POWER FREQUENCY TESTING OF GIS INCLUDING ARRANGING OF HV TEST KIT ALONG WITH OPERATOR | item86 | 28 | Bays | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 5.13 | SERVICES- 66kV GIS : 3D MODEL FOR 66kV GIS | item87 | 1 | LOT | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 5.14 | SERVICES- 66kV GIS : INSULATION CO-ORDINATION STUDIES FOR GIS SYSTEM | item88 | 1 | LOT | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 5.15 | SERVICES- 66kV GIS : TRAINING FOR GIS AT SITE (GIS/ ONLINE PARTIAL DISCHARGE MONITORING SYSTEM) | item89 | 7 | DAY | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 5.16 | SERVICES- 66kV GIS : TRAINING FOR GIS AT MANUFACTURER WORKS | item90 | 7 | DAY | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 6.01 | SERVICES- GIS : REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SERVICES: (UNIT PRICES OF INDIVIDUAL SERVICES INCLUDED HERE ARE REQUIRED FOR ANY ADDITION/DELETION OF EQUIPMENT AND REPLACEMENT OF DAMAGED ITEMS. VENDOR TO ENSURE THAT THE UNIT PRICES HAVE A LOGICAL RELATIONSHIP WITH PRICES OF ASSEMBLIES IN MAIN ITEMS. QUOTING FOR UNIT PRICES IS MANDATORY AND SHALL BE CONSIDERED FOR EVALUATION) (For item sl. No: 6.01-6.05): SERVICES- 66kV GIS: REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - SERVICES FOR SUPERVISION OF ERECTION OF GIS | item91 | 10 | MANDAY | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |

Help

Item Wise BoQ

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: BPCL Bina-66KV GIS

Enquiry/NIT No: NIT No.91739_Enquiry No.61Q2600123 Dated 30-05-2025

| Name of the Bidder/ Bidding Firm / Company : | | | | | | | | | | | | | | | |
|--|---|------------------|----------|--------|---|---|---------------------|--|---|---------------------|--|----------------|--|--|-----------------------|
| <p style="text-align: center;">PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)</p> | | | | | | | | | | | | | | | |
| NUMBER # | TEXT # | TEXT # | NUMBER # | TEXT # | TEXT # | NUMBER # | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER # | NUMBER # | NUMBER # | TEXT # |
| Sl. No. | Item Description | Item Code / Make | Quantity | Units | Quoted Currency in INR / Other Currency | Unit RATE in Figures To be entered by the Bidder in Rs. P | GST (in Percentage) | GST Amount (Unit Rate*Quantity* GST) Rs. P | Unit Freight & Insurance Charges in Rs. P | GST (in Percentage) | GST Amount on F&I (Unit Rate*Quantity*GST) Rs. P | HSN / SAC Code | TOTAL Ex-Works + F & I AMOUNT excluding GST in Rs. P | TOTAL Ex-Works + F & I AMOUNT including GST in Rs. P | TOTAL AMOUNT In Words |
| 1 | 2 | 3 | 4 | 5 | 12 | 13 | 14 | 15 | 16 | 20 | 21 | 51 | 53 | 54 | 55 |
| 6.02 | SERVICES- 66kV GIS: REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - SERVICES FOR TESTING & COMMISSIONING OF GIS | item92 | 10 | MANDAY | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 6.03 | SERVICES- 66kV GIS: DEMOBILIZATION AND REMOBILIZATION CHARGES FOR GIS ERECTION SUPERVISION TEAM | item93 | 2 | Set | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 6.04 | SERVICES- 66kV GIS: DEMOBILIZATION AND REMOBILIZATION CHARGES FOR GIS TESTING & COMMISSIONING TEAM | item94 | 2 | Set | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| 6.05 | SERVICES- 66kV GIS: DEMOBILIZATION & REMOBILIZATION CHARGES OF HV TEST KIT ALONG WITH OPERATOR | item95 | 1 | Lot | INR | | | 0.00 | | | 0.00 | | 0.000 | 0.000 | INR Zero Only |
| Total in Figures | | | | | | | | | | | | | 0.000 | 0.000 | Zero Only |
| oted Rate in Words | | INR Zero Only | | | | | | | | | | | | | |