



GSECL

GUJARAT STATE ELECTRICITY CORPORATION LIMITED

INVITES GeM (Government e Marketplace)

PORTAL FOR

**Supply of HT cable at GSECL, UTPS.
(UNINHIBITED)**

Administrative Office:
Urja Nagar, GEB Colony, Taluka:
Fort Songadh. Dist.: Tapi,
Pin Code - 394680.
Website: www.gsecl.in
email: ukaiceg@gebmail.com



GUJARAT STATE ELECTRICITY CORPORATION LIMITED

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CIN: U40100GJ1993SGC019988

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Notice Inviting Tender (NIT)

GeM Bid

Tender No. : ET-5919 (GeM)
R.F.Q. : 69702
Subject : Supply of HT cable at GSECL, UTPS.

C.E. [Generation TPS UKAI] invites “On line Tenders” (e-tendering) for above subject items / works. Tender Papers & Specifications may be downloaded from website <https://gem.gov.in/> (For view, download and on line submission) and GSECL websites www.gsecl.in (For view & download only).

The Technical bid containing all the relevant documents will have to be uploaded in PDF form through online on GeM website only.

**“Technical bid containing all the relevant documents of tender
(PDF form with resolution 300 dpi or higher.**

No any documents will be accepted in offline mode or hard copy”

Tender Number	ET-5919 (GeM)
Total Estimated End Cost of the tender items.	Rs 2,30,32,608=25
Earnest Money Deposit Amount	3% of Estimated value i.e. Rs.6,90,978.00
Last Date for Online tender / offer submission through Gem Portal only (This is Mandatory)	As per GeM Portal
The payment of EMD. (Earnest Money Deposit) Earnest Money Deposit Amount By EMD shall not be deposited in the bank account EMD should be in the form of Demand Draft, Pay Order and Bank Guarantee only from banks approved by Finance Department, Gujarat. The list of bank is mentioned in the ATC	As per NIT Details
Date of opening of online Technical Bid, all relevant documents submitted through online process only , submission of original DD, Pay order & BG within 5 days from Online last Bid submission date. Online technical bid will be opened for Bidders who have paid EMD. (Scan Copy must be required to upload in Gem portal.)	As per NIT Details
Tentative date of on-line opening of Technical bid/price bid.	As per NIT Details
Delivery of Goods	As per NIT Details
Security Deposit :	As per ATC
Validity of rates	120 days from the date of opening of Technical Bid.

Only cover for Demand Draft, Pay Order and Bank Guarantee in favor of Gujarat State Electricity Corporation Ltd. on Bank of Baroda, Ukai or State Bank of India, Ukai will be accepted through Registered Post AD or Speed Post within 5 days from Online last Bid submission date addressed to “CHIEF ENGINEER (GEN.), THERMAL POWER STATION, UKAI, TA: SONGADH DIST: TAPI. 394680” super scribing the envelope with “Tender Number” and “Description i.e. Name of Supply or Work”. “NO COURIER SERVICE OR HAND DELIVERY” will be accepted.

IMPORTANT

(Bidder should read following points before quoting the tender)

1. Bidders are requested to submit **Technical & Price Bid through ONLINE (Gem portal) only.** Offline or hard copy of Bids will not be accepted. Further if the quantity quoted differs in any of the Technical bid and Price bid forms, it is at the discretion of Competent Authority of GSECL to consider the quoted quantity

I. In case of payment through DD/ Pay Order /Bank Guarantee the scanned copy of original document must be uploaded on Gem portal and original copy of the same must be submitted physically in cover as per NIT Details.)

The documents (Original DD, pay order & BG) should be strictly submitted by RPAD / Speed post only. Otherwise the offer will not be considered or ignored and no any further communication in the matter will be entertained.

2. The details like Tender No., EMD, Name of bidder etc. should be match on both On-line offer (e-tendering) and physically submitted documents of EMD details. Any deviation found in Data/Details/Documents between On-line offer (e-tendering) and physically submitted documents of EMD details will not be considered and no any further communication in the matter will be entertained.
3. While filling-up various taxes through **On-line Price Bid**, the party has to mention the **tax in Rupees** instead of percentage.
4. The bank details of GSECL TPS UKAI are as under,

Beneficiary Name : M/s. Gujarat State Electricity Corporation Ltd.

Address: Urja Nagar, GEB Colony, Taluka: Songadh. Dist.: Tapi., Pin Code – 394680.

Bank Name : Bank of Baroda Ukai.

Nature of A/C : Current Accounts. , Branch : Ukai.

Account No. : 02640200000002, IFSC CODE No. : BARB0UKAIXX (0 = ZERO)

MICR CODE No.: 394012529.

5. Any technical questions, information and clarifications that may be required pertaining to this enquiry should be referred to the CHIEF ENGINEER (GEN) , GUJARAT STATE ELECTRICITY CORPORATION, THERMAL POWER STATION, UKAI – 394 680 , DI-TAPI.

Bidders should be in touch with the above websites for information regarding revision / corrigendum / amendment in tender till due date of on line submission and thereafter. No separate correspondence will be done in this regard.

KEY NOTES TO BIDDERS

- (1) If **any deviation in your offer** with respect to Tender specification, then please mention clearly **in separate deviation sheet** annexure-12, otherwise we will consider your offer is exactly as per our Enquiry / Tender specification. Offline OR Hard copy will not be accepted.
- (2) GSECL reserves rights to place the order on technically qualified bidders for **item wise lowest** quoted party.
- (3) If participating bidder/agency have stake in one or more other agencies / bidders who are participating in same tender and on account of submission of wrong information / declaration in the tender / enquiry certificate – A, then the bidder will be declared as disqualified automatically and EMD/SD will be forfeited, Further, GSECL shall take stern action including Stop dealing with their firms.
- (4) It is to be noted that GSECL, Ukai TPS is establishing and implementing occupational Health & Safety Management System complying with OHSAS 45001-2018. You as a part of the GSECL Ukai team and as defined by the scope of mentioned standard, all contractors are required to comply with and participate to

prevent the occupational Health and Safety hazards and risks including observation of safety rules. Further you are also to comply with all applicable legal requirements while executing the supply / work, in case the job is assigned to you.

- (5) **Please note that conditionally offers will liable to be ignored.**
- (6) Bidder shall submit all section of Tender document, Corrigendums, Amendments, duly signed with seal as a token of acceptance.
- (7) The Company GSECL reserves the right to reject any or all tenders or accept any tender without assigning any reason thereof.
- (8) The party must agree to participate in the VMS during the tender process and provide the necessary details to streamline the VMS registration process and to avoid delays in payment for supplies.
- (9) For registration in GSECL's VENDOR MANAGEMENT SYSTEM (VMS) <https://vms.guvnl.com>, vendor is required to submit details of PAN, GST, official email ID for receiving OTP, bank details, and any other information as required.
- (10) After successful registration, the vendor will receive a VMS link, along with a login ID and password, to process invoices.
- (11) Vendor must upload invoice of supplied material in VMS portal to process payment.
The SOPs for New Vendor Registration and Invoice Submission are available at the link above.
Documents required for Registration: (1) PAN Copy (2) GST Certificate Copy (3) E-mail ID (4) Full Name of Vendor
- (12) Bidder shall have to furnish GST Certificate, PAN, e-mail ID, Contact Number and Bank details along with bid.
- (13) Our GSTIN No.: 24AAACG6864F1ZO

**Chief Engineer (GEN.)
GSECL, Ukai TPS.**

- (1) I/We here by agree to abide by and fulfill all the terms and provisions of the tender and contractor for work/supply as applicable and in default thereof to forfeit and pay to the Corporation the sums of money due.
- (2) I/We hereby agreed to abide that the full value of the earnest money deposit paid herewith should be absolutely forfeited to the Corporation if I / We would not deposit the full amount of specified security deposit.

**Seal and Signature of
Tenderer / Contractor**



GUJARAT STATE ELECTRICITY CORPORATION LIMITED

SECTION A: TECHNICAL SPECIFICATION

OF

Supply of HT cable at GSECL, UTPS.



Tender for Supply of HT cable at GSECL, UTPS.

SHEET – I: TECHNICAL SPECIFICATION of HT cable

Sr. No.	Description of Material	Qty. Required	Unit
1	ALLUMINIUM CABLE 1 CORE X 1000 MM ² H.T.	7	Kilometer
2	ALLUMINIUM CABLE 3 COREx185 SqMM HT	4.2	Kilometer
3	ALLUMINIUM CABLE 3 CORE X 240 MM ² , XLPE 11 KV HT CABLE	1	Kilometer
4	3CX50SQMM 11KV(E) GRADE HT XLPE INSULATED FIXED AL CABLE	100	Meter
5	1CX50SQMM 11KV(E) GRADE HT XLPE INSULATED FIXED AL CABLE	100	Meter
6	COPPER CABLE 1 CORE X 630 MM	1000	Meter

TECHNICAL SPECIFICATION FOR HT CABLES.

1.0 SCOPE:

- 1.1 This specification provides for design, manufacture, testing, inspection, packing and dispatch to destination of Copper and Aluminium cored HT Power Cables, specified herein for their satisfactory operation. Preparation of Drum drawings and getting it approved from GSECL Ukai TPS.
- 1.2 These cables are to be used as control signal carrying cables or power carrying cables, as the case may be, in Power stations of various areas having varying atmospheric conditions, for voltage ratings up to 400KV, from various equipments situated in Plant area, Control rooms, switchyard etc.
- 1.3 These cables are generally used underground either in the cable trenches with no. of layers as per requirement covered with the cement covers or in the pipes installed underground and then pits filled with the soil.

2.0 STANDARDS:

- 2.1 The Control, Power, Telephone and Trailing cables shall conform to the following Indian / International Standards, which shall mean latest revisions, amendments / changes adopted and / or published as on the date of opening of the Tender.

Sr. No.	Indian Standards	Title
1	IS : 1554	For Cables up to working voltage 1100 V
2	IS : 7098	For XLPE Cables
3	IS : 5831	For Insulation Sheath
4	IS : 8130	For Copper And Aluminium Conductor
5	IS : 10418	For Wooden Drums
6	IS : 3975	For Armouring
7	IS : 3961	For Current Rating
8	IS : 9968	For Trailing Cables
9	IEC :189 / BS : 5308	For Instrument Cables
9	ITD: GR/CUG-01/03, Aug-2003.	For Telephone Cable
10	IEC-754, 332, ASTM D-2863, 2543	For FRLS Properties

- 2.2 Over and above, any other standards which are relevant may be quoted by the bidder. However, in an event where the supplier offers Control and / or power cables conforming to standards other than the above, then the salient points of comparison between the standards adopted and the standards quoted herein shall be detailed in relevant schedule with an authenticated English version of such standards referred to. GSECL also reserves right to ask any supplier to supply the control / power cables related to any other IS or International Standards which may be found to give better quality and performance of the cables.

3.0 **CLIMATIC CONDITIONS:**

- 3.1 The cables to be supplied under these Specifications are to be used in Power Stations of the Gujarat State, located at different locations having varying atmospheric and climatic conditions and are suppose to operate satisfactorily under any conditions.

- 3.2 However the General conditions are given as under:

1	Location	In the State of Gujarat as per Annexure-I
2	Maximum Ambient Air Temperature -(°C)	50
3	Minimum Ambient Air Temperature -(°C)	0
4	Average daily ambient Air Temperature -(°C)	35
5	Maximum relative humidity – (%)	95
6	Average rainfall per annum -(mm)	1150
7	Maximum altitude above mean sea level - (mtr)	1000
8	Ceraunic level i.e. Average number of Thunder storm -(Days/annum)	15
9	Maximum wind pressure -(KG/m ²)	200
10	Seismic level i.e. Earthquake Acceleration a) Horizontal Seismic Co-efficient (acceleration) – g (Equivalent to zone – 5) b) Vertical Seismic Co-efficient (acceleration) – g (Equivalent to zone – 5)	(a) 0.3 (b)0.34
11	Terrain	Hot, Humid, Tropical, Highly Polluted, Conductive, Corrosive, Prone to Fungus Growth etc

4.0 **GENERAL TECHNICAL / PRINCIPAL PARAMETERS :**

4.1 **HT CABLE:-**

- (1) 11 KV (E) Grade XLPE, 3-Core, power cable shall be of high conductivity, stranded compacted, H.D. aluminum circular shaped conductor with XLPE (Cross Linked Poly Ethylene) Dry/Sioplas method (Chemical curing only) cured insulation provided with shielding of extruded semi-conducting materials over conductor and XLPE insulation. Each insulated core shall have copper tape screen, laid together and provided with common covering of PVC Inner Sheath (Extruded). Overall galvanized steel strip armour and PVC outer sheath shall be provided. The specification for manufacture of

cable shall be conforming to IS: 7098 (Part-II) 1985 (latest edition) for 11KV (E), 3-phase, 50 Hz, Earthed systems.

- (2) Outer sheath shall be designed to afford high degree of mechanical protection and shall also be heat, oil, chemical and weather resistant, Common acid, alkalis and sealing solution shall not have adverse effect on material of PVC sheath.
- (3) The cable conductor shall be made from high conductivity stranded High Density aluminum to form compacted circular shaped conductor having resistance within limits specified in IS: 8130/1984 and any latest amendment to it.
- (4) The conductor having semi-conducting screen shall ensure perfectly smooth profile and avoid concentration of stress. The conductor screen shall be extruded in the same operation as the insulation. The semi-conducting polymer shall be cross linked.
- (5) Cable Parameters:

1	Voltage grade (U ₀ / U)- KV	6.6 / 11
2	Cores (Nos)	3
3	Nominal system voltage -KV	11
4	Highest system voltage -KV	12
5	System frequency- Hz	50
6	Variation in frequency -%	± 3
7	Maximum allowable temp. of conductor during continuous normal operation at rated full load current - °C	90 ° C
8	Maximum allowable temp. under short circuit condition-°C	250 ° C
9	1.2/50 microsecond lightning impulse withstands voltage wave value - KVp	75
10	5 Min, Power frequency withstand voltage -KV rms	17
11	System earthing	Effectively earthed.

- (6) The XLPE insulation shall be suitable for 11 / 22 kV system voltage and should be manufactured with Dry/Sioplas method (Chemical curing only). The bidder shall submit the description of Dry/Sioplas method (Chemical curing only), with the clear inclusion of equipments / parameters involved. The manufacturing process shall ensure that the insulation shall be free of voids. The insulation shall withstand mechanical and thermal stress under steady state and transient operating conditions. The extrusion method should give very smooth interface between semi-conducting screen and insulation. The insulation of the cable shall be of high standard quality generally conforming to IS: 7098 (Part – II) – 1985 and any latest amendment to it.
- (7) Insulation shield: Non-metallic semi-conducting shield shall be provided over the insulation to confine electrical field to the insulation. The insulation shield shall be extruded in the same operation as the conductor shield and the insulation by suitable extrusion process. The XLPE insulation shield shall be of tanded type. The copper metallic overlapped tape shield shall be provided.
- (8) Filler and Inner-Sheath: The sheath shall be suitable to withstand the site conditions and the desired temperature. It shall be of adequate thickness, consistent quality and free from all defects. The PVC sheath shall be extruded. The material of fillers and inner-sheath shall be compatible with the temperature ratings of the cable and shall have no deterious effect on any other component of the cable. Central PVC filler shall also, be provided with other peripheral PVC fillers to have proper circular section.
- (9) Outer-Sheath: Extruded type ST-2 PVC outer-sheath, conforming to IS: 5831- (1984) (latest edition) over armoring with suitable additives (to prevent attack by rodents and termites), shall be provided.

- (10) Armour: Armoring of galvanized steel strip shall be provided. The dimensions of steel strips shall be as per latest edition of IS: 3975 – 1979.
- (11) Cable shall be suitable for lying in covered trenches and / or buried under-ground in outdoor.
- (12) Current Rating: The indicative values of continuous current carrying capacities at Maximum conductor temperature of 90° C (for design purpose by field) of the various sizes of the cables are given in GTP. Short circuit ratings of various sizes cable calculated for duration of one second at maximum temperature of 250° C, are given in GTP.
- (13) The cables shall be suitable for being installed directly in the ground, in the pipes or in the cable trays/trenches. The cables shall therefore be suitable for satisfactory operation under the tropical climatic conditions listed in the relevant clause.

5.0 PHYSICAL CONSTANTS OF MATERIALS:

5.1 PHYSICAL CONSTANTS FOR COPPER / ALUMINIUM CONDUCTORS:

5.1.1 Resistivity:-

The volume resistivity of copper / aluminum depends upon its purity and its physical condition. However as per the specified value of purity in this specification, the maximum value permitted is 0.01724 Ω -mm²/meter for copper and 0.28264 Ω -mm²/meter at 20 Deg. C, for aluminium. These values shall be used for calculation of the maximum permissible value of resistance. This value may be checked from the measured value of the resistance.

5.1.2 Density:-

At a temperature of 20°C the minimum density of electrolytic grade annealed copper shall be 8.89 and that of hard drawn aluminum shall be 2.703 Gm/CuCm.

5.2 Constant-Mass Temperature Co-efficient of Resistance:-

- 5.2.1 At a temperature of 20°C the constant-mass temperature co-efficient of resistance of copper and hard drawn aluminum measured between two potential points rigidly fixed to the wire, the metal being allowed to expand freely, has been taken as 0.0039 and 0.004 per degree Celsius respectively for copper and aluminum.

5.3 Co-efficient of Linear Expansion:-

- 5.3.1 The co-efficient of linear expansion of copper and hard-drawn aluminium at 0°C has been taken as 17×10^{-6} and 23×10^{-6} per °C respectively for copper and aluminium. This value holds good for all practical purposes over the range of temperature from 0°C to highest safe operating temperature.

6.0 PHYSICAL CONSTANTS FOR GALVANIZED STEEL WIRES:

6.1 Density:-

- 6.1.1 At a temperature of 20°C, the density of galvanized steel wire is to be taken as 7.78 Gm/CuCm.

6.2 Co-efficient of Linear Expansion:-

- 6.2.1 In order to obtain uniformity in calculations a value of 11.5×10^{-6} Per °C may be taken as the value for the co-efficient of Linear Expansion of galvanized steel wires used for the cores of steel-armoured copper / aluminium conductors.

6.3 Materials:-

- 6.3.1 The conductors shall be manufactured from Electrolytic annealed copper / EC grade aluminium rods suitably hard-drawn on wire drawing machines. The copper / aluminium rods used shall comply with all the relevant ISS, BSS, or other standards to be specified along with the due justifications and this Specification.
- 6.3.2 Galvanized steel wire shall be drawn from high carbon steel rods produced by either acidic or basic open hearth process, electric furnace process or basic oxygen process. All the properties of the steel strips and wires shall conform to the relevant standards.
- 6.3.3 The zinc used for galvanizing shall be electrolytic high grade Zinc not less than 99.95 percent purity. It shall conform to and satisfy all the requirements of relevant ISS, BSS, the Specification or other Standards to be specified with the due justification. Galvanizing has to be done by hot dip galvanizing process. Neutral grease may be applied between the layers of wires; however the weight of the same shall be specified and added to the total weight of the conductor.

NOTE: Lithium soap grease corresponding to Grade II of IS: 7623-1974 (Specification for lithium soap greases) may be suitable for such application.

- 6.3.4 The bidder should specify the source of raw materials along with the proof of last purchases made. The Purchaser may reject the tender of the Bidders whose raw material suppliers are found to be supplying any poor quality or non-standard materials, to the purchaser of this Specification or any other purchaser.

7.0 FREEDOM FROM DEFECTS:-

- 7.1 The wires shall be smooth and free from all imperfections such as spills, splits, slag inclusion, die marks, scratches, fittings, blow-holes, projections, looseness, overlapping of strands, chipping of copper / aluminium layers etc. and all such other defects which may hamper the mechanical and electrical properties of the conductor as also the installation of the cable at the site etc. Special care should be taken to keep away dirt, grit etc. during stranding / applying PVC coating.

8.0 WIRE SIZES:-

8.1 Nominal Size and Tolerances:-

- 8.1.1 The copper, aluminum and galvanized steel wires for the cable covered by this Specification / standard shall have diameters as specified in clause respective IS and shall be within the tolerances indicated therein. The diameter of the steel wires shall be measured over the zinc coating.

9.0 JOINTS IN WIRES:-

9.1 Copper / Aluminium Wires:-

- 9.1.1 No joints shall be permitted in the copper / aluminum wires in any of the cables and any of the cores.

9.2 Galvanized steel wires:-

- 9.2.1 There shall be no joints except those in the base rod or wire before final drawing, in steel wires and strips forming the armouring of the copper / aluminium cables.

10.0 STRANDING:-

- 10.1 The wires used in the construction of galvanized steel armoring of copper and aluminium cables before stranding and after stranding shall satisfy all the relevant requirements as per the standards indicated or any other standards with due justification and this Specification.
- 10.2 The zinc used for galvanizing shall be electrolytic high grade Zinc. It shall conform to and satisfy all the requirements of relevant standards indicated or any other standards with due justification and this Specification. Galvanizing shall be done by hot dip galvanizing process. Neutral grease may be applied between the layers of wires.

NOTE: Lithium soap grease corresponding to Grade II of IS: 7623-1974 (Specification for lithium soap greases) may be suitable for such application.

CABLE DRUM:

1. Below 185sqmm cable: Cables shall be supplied in non-returnable wooden or steel drums of heavy construction and drum shall be properly seasoned, sound and free from defects. Wood preservative shall be applied to the entire drum.
2. For 185sqmm and above cable should be supplied in nonreturnable MS steel drum.

11.0 STANDARD LENGTH:-

- 11.1 The standard length of the conductor shall be as per GTP. A tolerance of +/-5% on the standard length per drum shall be permitted. All lengths outside this limit of tolerance shall be treated as random lengths. Over all tolerance in total quantity of ordered cables shall be + 2%.
- 11.2 Random lengths will be accepted provided no length is less than 95% of the standard length specified and the total quantity of such random lengths shall not be more than 5% of the total quantity ordered.
- 11.3 Bidder shall also indicate the maximum single length, above the standard length, he can manufacture in the guaranteed technical particulars. This is required for special connections like Control and Relay Panels etc. The purchaser reserves the right to place orders for the above length to the extent of 50% of the total ordered quantity on the same terms and conditions applicable for the standard lengths during the pendency of the contract.
- 11.4 All the cables shall be marked at every meter with-
1. Name of the manufacturer
 2. Name of the purchaser
 3. Rating
 4. Size of the cable
 5. Date of manufacture
 6. Length
 7. Electric/Telephone as per IS
- 11.5 Every core of the cable shall be marked with core no. at every meter, serially.

12.0 OPERATION:-

- 12.1 Cable shall be suitable for operation under frequency variation of 3% and voltage variation of 10% -15% and combined frequency-voltage variation of 10% (absolute sum).

13. TESTS:-

- 13.1 The type, acceptance, routine tests, any tests specifically demanded by the Purchaser and tests during manufacture shall be carried out on the cables free of cost.
- 13.2 Type tests shall mean those tests, which are to be carried out to prove the process of manufacture and general conformity of the material to this Specification and relevant Standards. These tests shall be carried out on samples prior to commencement of commercial production against the order. The Bidder shall indicate his schedule for carrying out these tests in the activity schedule. These tests shall have to be carried out at the Government Approved Testing Laboratory only in presence of the Purchaser's representative. Purchaser reserves the right to specify the name of the laboratory also, if so felt.
- 13.3 Acceptance Tests shall mean those tests, which are to be carried out on samples taken from each lot offered for pre-dispatch inspection, for the purposes of acceptance of that lot. These tests shall be carried out at the manufacturer's works in presence of Purchaser's representative before the dispatch of the materials to the site.
- 13.4 Routine Tests shall mean those tests which are to be carried out on each strand / spool / length of the cable to check requirements which are likely to vary during production. These tests shall be carried out by the manufacturer on each drum and shall have to furnish these reports to the GSECL's representative during his visit for acceptance tests.
- 13.5 Tests during manufacture shall mean those tests, which are to be carried out during the process of manufacture and end inspection by the supplier to ensure the desired quality of the end product to be supplied by him, including all Quality Control checks and Raw Materials testing.
- 13.6 Samples for individual wires for tests shall be taken before stranding from not less than ten percent of the spools in the case of copper and aluminium wires and ten percent of the coils in the case of steel wires. If samples are taken after stranding, they shall be obtained by cutting 1.2 meters from the outer end or inner end of the finished cable from at least ten percent of the finished reels.
- 13.7 The standards to which these tests will be carried out are listed against them. Where a particular test is a specific requirement of this specification, the norms and procedures of the test shall be as specified in this Specification or as mutually agreed to between the Bidder and the purchaser in the Quality Assurance Programme.
- 13.8 For all type and acceptance tests, the acceptance values shall be the values guaranteed by the Bidder in the "Guaranteed Technical Particulars" of his proposal or the acceptance value specified in this specification, whichever is more stringent for that particular test.

14.0 TYPE TESTS: -

- 14.1 All the type tests as per relevant Standards (IS 1554-Part-I, IS 7098-Part-II and IS 9968) and this Specification shall be conducted once on each sample / samples of cables for every 50 KMs or less of production from each manufacturing facility. However if the Supplier has carried out the Type Tests within 10 years of opening of this Tender, the same will be considered acceptable, subject to submission of the same in original. However GSECL may ask any of the suppliers to carry out the Type Test at its own discretion, even if the same are not older than 10 years, but the same will be subject to allotment of minimum 15% of the total quantity indicated in this Specification. Some tests are listed below AT Cl. No. 14.4.

- 14.2 All the Type Tests shall be carried out by the supplier at no extra cost to the GSECL, (for any number of times, as may be required) at the Government Approved Laboratory or at the Laboratory specified by the GSECL, at its own discretion.
- 14.3 All the new suppliers, for the size offered or full lot, shall have to compulsorily carry out the Type Tests i.e. if the supplier has supplied one size of cable to the Company in past and is having type test certificate but has been allotted some other size for the first time by the GSECL then even if he possess the Type test, he has to carry out the same in presence of the GSECL's representative.

14.4 **List of Type Tests:**

(A) As per IS 1554:

(a) Tests on conductor:

- (1) Annealing test
- (2) Tensile test
- (3) Wrapping test
- (4) Conductor Resistance test

(b) Tests for armoring strips / wires:

(c) Tests for thickness of insulation and sheath:

(d) Physical tests for insulation and outer sheath:

- (1) Tensile strength and elongation at break
- (2) Ageing in air oven
- (3) Shrinkage test
- (4) Hot deformation test
- (5) Thermal stability

(e) Insulation resistance test

(g) High voltage test (water immersion)

(m) Flammability test

(B) As per IS 7098-Part-II:

(a) Tests on conductor:

- (1) Annealing test
- (2) Tensile test
- (3) Wrapping test
- (4) Conductor Resistance test

(b) Tests for armoring strips / wires:

(c) Tests for thickness of insulation and sheath:

(d) Physical tests for insulation:

- (1) Tensile strength and elongation at break
- (2) Ageing in air oven
- (3) Hot set test
- (4) Shrinkage test
- (5) Water absorption
- (6) Degree of cross linking

(e) Physical tests on outer sheath:

- (1) Tensile strength and elongation at break
- (2) Ageing in air oven

- (3) Shrinkage test
- (4) Hot deformation
- (5) Thermal stability

- (f) Partial discharge test
- (g) Bending test
- (h) Dielectric power factor test
 - (1) as a function of voltage
 - (2) as a function of temperature
- (i) Insulation resistance test (volume resistivity)
- (j) Heating cycle test
- (k) Impulse withstand test
- (l) High voltage test
- (m) Flammability test
- (n) Test on extruded semi conducting screens
 - (a) Test for strip ability of semiconducting strippable insulation screen (when applicable)
 - (b) Volume resistivity
- (o) Test on extruded semi conducting screens

15.0 ACCEPTANCE TESTS:-

- 15.1 All the cables ordered shall be accepted only after carrying out of all the acceptance tests, as per the relevant IS or the Specification, in presence of the GSECL's Representative. Some tests are listed at Cl. No. 15.3.
- 15.2 The supplier shall possess all the facilities to carry out all the Acceptance Tests. If it is found that the testing equipment/s are not performing to the Standard or they are not duly Calibrated the related test/s shall be carried out at the Government approved laboratory in presence of Purchaser's Representative, at no extra cost to the GSECL. The GSECL may specify the name of the laboratory.

15.3 List of Acceptance Tests:-

(A) As per IS 1554:

- (a) Annealing test
- (b) Tensile test
- (c) Wrapping test
- (d) Conductor Resistance test
- (e) Tests for thickness of insulation and sheath:
- (f) Tensile strength and elongation at break of insulation and sheath
- (g) Insulation resistance test (volume resistivity)
- (h) High voltage test

(B) As per IS 7098-Part-II:

- (a) Annealing test
- (b) Tensile test

- (c)Wrapping test
- (d)Conductor Resistance test
- (e)Tests for thickness of insulation and sheath
- (f) Hot set test for insulation
- (g)Tensile strength and elongation at break of insulation and sheath
- (h) Insulation resistance test
- (i)High voltage test
- (k)Partial discharge test

16.0 ROUTINE TESTS:-

16.1 All the routine tests shall be carried out by the supplier during the production of the cable and a copy of the same shall be provided to the Inspecting Officer, during inspection. Some tests are listed below at Cl. No. 16.2.

16.2 List of Routine Tests:-

(A) As per IS 1554:

- (a)Conductor Resistance test
- (b) High voltage test
- (c) Armour resistance test

(B) As per IS 7098-Part-II:

- (a)Conductor Resistance test
- (b) High voltage test
- (c) Armour resistance test
- (d) Partial discharge test

17.0 TEST DURING MANUFACTURE:

a	Chemical analysis of zinc used for galvanizing	Relevant IS with latest Amendment and this Specification.
b	Chemical analysis of copper and aluminium used for making copper / aluminium conductors.	Relevant IS with latest Amendment and this Specification
c	Chemical analysis of steel used making steel armouring.	Relevant IS with latest Amendment and this Specification

18.0 TESTING CHARGES:-

18.1 The testing charges for the type tests specified and as per relevant IS / international standards, shall be borne by the Supplier. All the Suppliers irrespective of their registration etc. will have to carry out the Type Test, as per the terms of this Specification at their own cost and the Purchaser will not have any financial or technical implication on this account.

18.2 In case of failure in any of the type test/s, the supplier is either required to modify the design of the material or repeat the particular type test three times successfully at his own expenses. The decision of the purchaser in this regard shall be final and binding. The Purchaser at its own desecration may also cancel the order at the risk and cost of the contractor, if the material fails twice successively in the Type Test.

18.3 Bidder shall indicate the laboratories in which they propose to conduct the type tests. They shall ensure that the tests can be completed in these laboratories within the time schedule guaranteed by them in the appropriate schedule. The Purchaser reserves the right to specify the name of the laboratory also, if so felt.

18.4 The entire cost of testing for the type, acceptance routine tests and tests during manufacture, special tests etc specified herein or in the relevant Standards shall be treated as included in the quoted unit price of cable.

19.0 ADDITIONAL TESTS:-

19.1 The Purchaser reserves the right of getting done any other test(s) of reasonable nature carried out at Purchaser's premises, at site, or in any other place in addition to the aforesaid type, acceptance and routine tests to satisfy himself that the material comply with the specifications. In such case all the implications (financial and / or Technical) will be to Suppliers account.

20.0 SAMPLE BATCH FOR TYPE TESTING:-

20.1 The Bidder shall offer minimum five (5) drums or the full quantity, whichever is less, for selection of samples required for conducting all the type tests.

20.2 The Bidder is required to carry out all the acceptance tests successfully in the presence of Purchaser's representative before dispatch of the selected sample to the testing laboratory for type test.

20.3 However the new supplier will have to offer the first lot for selection of sample for type test, after successfully carrying out the acceptance tests on it, in presence of the GSECL's Representative. The first lot shall be minimum of 5 drums or full allotted quantity.

21.0 TEST REPORTS:-

21.1 Test reports shall be furnished in at least two (2) copies along with one original. One copy shall be returned duly certified by the Purchaser only after which the material already inspected i.e. the materials manufactured for selection of sample for type test, shall be dispatched on receipt of Dispatch Instructions from the C.E.(Generation), UTPS, GSECL, Ukai.

21.2 Record of routine test reports shall be maintained by the Bidder at his works for periodic inspection by the purchaser's representative.

21.3 Test Certificates of test during manufacture shall be maintained by the Bidder. These shall be produced for verification as and when desired by the Purchaser.

22.0 TEST FACILITIES:-

22.1 The following additional facilities shall be available at Supplier's works:

(a) Calibration Reports from Government approved testing laboratory of various testing and measuring equipment including tensile testing machine, resistance measurement facilities, burette, thermometer, barometer etc.

(b) Standard resistance for calibration of resistance bridges.

(c) Finished cable shall be checked for length verification and surface finish on separate rewinding machine at reduced speed (variable from 8 to 16 meters per minute). The rewinding facilities shall have appropriate clutch system and free of vibrations, jerks etc. with transverse layering facilities.

(d) The bidder should have all the routine and acceptance testing facilities, in house.

23.0:

- 23.1 The Purchaser's representative shall at all times during the tendency of the contract be entitled to have access to the works and all places of manufacture where conductor is being manufactured and the representative shall have full facilities for unrestricted inspection of the Supplier's works, raw materials and process of manufacture and conducting necessary tests as may be deemed fit, for certifying the quality of product.
- 23.2 The Supplier shall keep the Purchaser informed in advance of the time of starting and of the progress of manufacture of cable in its various stages so that arrangements can be made for inspection.
- 23.3 No material shall be dispatched from its point of manufacture before it has been satisfactorily inspected, tested, and necessary dispatch instructions are issued in writing, except for the cases where waiver of inspection is granted by competent authority of the Purchaser, and even in this case also written dispatch instructions will be issued. Any dispatches before the issue of Dispatch Instructions in writing will be liable for rejection and non acceptance of the materials by the consignee.
- 23.4 The acceptance of any quantity of material shall in no way relieve the Bidder of any of his responsibilities for meeting all requirements of the Standards / Specification, and shall not prevent subsequent rejection if such material is later found to be defective. The dispatch of the manufactured materials shall not be delayed beyond 10 days from the date of issue of the Dispatch Instruction. Any delay beyond this will be treated as late delivery and all deductions as per late delivery will be affected.
- 23.5 At least 5% of the total number of drums subject to minimum of two in any lot put up for inspection, shall be selected at random to ascertain the length of cable by following method:
"At the works of the manufacturer of the cable, the cable shall be transferred from one drum to another at the same time measuring its length with the help of a graduated pulley and Cyclometer. The difference in the length (higher of the total measured lengths) thus obtained and as declared by the Bidder in the packing list shall be applied to all the drums if the cable is found short during checking."
- 23.6 The sample cut off from any numbers of drums for carrying out any type of tests will be to the suppliers account.

24.0 QUALITY ASSURANCE PLAN:-

- 24.1 The bidder shall invariably furnish following information along with his offer, failing which his offer shall be rejected.
- (i) Statement giving list of important raw materials, proposed to be used in the manufacture of the cable against this Specification, names of sub suppliers for the raw materials, list of standards according to which the raw materials are tested, list of tests normally carried out on raw materials in presence of Bidder's representative as routine and / or acceptance during production and on finished goods, copies of test certificates.
 - (ii) Information and copies of test certificates as in (i) above in respect of bought out accessories.
 - (iii) List of manufacturing facilities available.
 - (iv) Level of automation achieved and list of areas where manual processing exists.
 - (v) List of areas in manufacturing process, where stage inspections are normally carried out for quality control and details of such tests and inspections.

- (vi) List of testing equipment available with the Bidder for final testing of Cable specified. In the case if the Bidder does not possess all the Routine and Acceptance testing facilities the tender will be rejected.
- (vii) The Purchaser reserves the right for factory inspection to verify the facts quoted in the offer. If any of the facts are found to be misleading or incorrect the offer of that Bidder will be out rightly rejected and he may be black listed.
- (viii) Special features provided to make it maintenance free and also any marking for identification after installation.

24.2 The bidder shall also submit following information to the purchaser along with the technical Bid. .

- (i) List of raw materials as well as bought out accessories, and the name of suppliers of raw materials as well as bought out accessories.
- (ii) Type test certificates of the raw material bought out accessories and finished cables, offered. The reports shall not be older than 10 years on the date of opening of the Tender.
- (iii) Quality assurance plan (QAP) with hold points for purchaser's inspection.

24.3 The Bidders shall submit the routine test certificates of all the cables, bought out items, accessories etc.

25.0 DOCUMENTATION:-

25.1 Two sets of type test reports, duly approved by the Purchaser shall be submitted by the Bidder, before commencement of supply. A copy of acceptance and routine test certificates, duly approved by the purchaser shall accompany the dispatch consignment.

25.2 The manufacturing of the cables shall be strictly in accordance with the approved drawings and no deviation shall be permitted without the written approval of the Purchaser. All manufacturing and fabrication work in connection with the cable prior to the approval of the drawing shall be at supplier's risk.

25.3 Approval of drawing etc. by the purchaser shall not relieve the Bidder of his responsibility and liability for ensuring correctness and correct interpretation of the latest revision of applicable standards, rules and codes of practices. The cables shall conform in all respects to high standards of engineering, design, workmanship and latest revisions of relevant standards in vogue on the day of opening of the Technical Bid and purchaser shall have the power to reject any work or material which in his judgment is not in full accordance therewith.

26.0 PACKING AND FORWARDING:-

26.1 The cables shall be supplied in non-returnable strong wooden drums provided with lagging of adequate strength, and displacement during transit, storage and subsequent handling and laying operations in the field. The drums shall generally conform to relevant IS except otherwise specified hereinafter.

26.2 The drums shall be suitable for wheel mounting and for jetting off the cable under a minimum controlled stress of the order of 5 Kg/m² for copper cables and 15 Kg/m² for aluminium cables.

26.3 The bidder should submit the proposed drum drawings along with the bid. However, the same shall be in line with the requirements as stated herein. After

placement of the Letter of Award, the Bidder shall submit two copies of fully dimensioned drawing of the drum, for Purchaser's approval before taking up manufacturing of Cables and or drums. After getting approval from the Purchaser, Bidder shall submit 6 copies of the approved drawing to Purchaser for further distribution and field use at Purchaser's end.

- 26.4 All wooden components shall be manufactured out of seasoned soft wood free from defects that may materially weaken the component parts of the drums. Preservative treatment for anti-termite/anti-fungus (Aldrime / Aldruse) etc. shall be applied to the entire drum with preservatives of a quality which is not harmful to the cable or to the persons using or storing the same.
- 26.5 The flanges shall be of minimum two ply or higher construction with each ply at right angles to the other and nailed together. The nails shall be driven from the inside face flange, punched and then clenched on the outer face. The tolerance in thickness of each ply shall be +3 mm only. There shall be at least 3 nails per plank of ply with maximum nail spacing of 75 mm. Where a slot is cut in the flange to receive the inner end of the cable, the entrance shall be in the line with the periphery of the barrel.
- 26.6 The wooden battens used for making the barrel of the cable shall be of segmental type. These shall be nailed to the barrel supports with at least two nails. The battens shall be closely butted and shall provide a round barrel with smooth external surface. The edges of the battens shall be rounded or chamfered to avoid damage to the cable.
- 26.7 Barrel studs shall be used for construction of drums. The flanges shall be holed and the barrel supports slotted to receive them. The barrel studs shall be threaded over a length on either end, sufficient to accommodate washers, spindle plates and nuts for fixing flanges at the required spacing. Barrel studs should be tack welded with the nuts after tightening.
- 26.8 Normally, the nuts on the studs shall stand proud of the flanges. All the nails used on the inner surface of the flanges and the drum barrel shall be countersunk. The ends of barrel shall generally be flushed with the top of the nuts.
- 26.9 The complete drum including inner cheek of the flanges and drum barrel surface shall be painted with bitumen based paint.
- 26.10 Before reeling, card board or double corrugated or thick bituminized waterproof bamboo paper shall be secured to the drum barrel and inside of flanges or the drum by means of a suitable commercial adhesive material. The paper should be dried before use. After reeling the cable, the exposed surface of the outer layer of cable shall be wrapped with thin polyphone sheet across the flanges to preserve the cable from dirt, grit and damage during transportation and handling and also to prevent ingress of rain water during storage / transport.
- 26.11 A minimum space of 125 mm shall be provided between the inner surface of the external protective layer and outer layer of the power cables; however 75 mm shall be acceptable for all control cables.
- 26.12 Each batten shall be securely nailed across grains as far as possible to the flange edges with at least 2 nails per end. The length of the nails shall not be less than twice the thickness of the battens. The nail shall not protrude above the general surface and shall not have exposed sharp edges or allow the battens to be released due to corrosion.
- 26.13 Outside the protective layer, there shall be minimum of two binders consisting of hoop iron / galvanized steel wire. Each protective layer shall have two recesses to accommodate the binders.
- 26.14 The cable ends shall be properly sealed and secured with the help of U-nails on one side of the flanges. The cable shall be banded by use of galvanized steel wire / aluminium wire.

- 26.15 Wire shall be bound at least at three locations at the most 75 mm apart covered with PVC adhesive tape so as to avoid loosening of cable in transit and handling.
- 26.16 Only Single length of cable shall be wound on each non returnable drum as per IS 10418 (Latest).
- 26.17 If any bidder wishes to supply the cables in the non returnable steel drums the same will be acceptable, however they shall be without any additional cost to the GSECL.

27.0 MARKING:-

27.1 Each drum shall have the following information stenciled on it in indelible ink along with other essential data:

1. Contract Award letter / order number
2. Name and address of consignee
3. Manufacturer's name and address
4. Drum Number
5. Size of cable
6. Length of cables in meters
7. Gross weight of drum with cable
8. Weight of empty drum with lagging
9. Arrow marking for unwinding.

28.0 QUANTITY AND DELIVERY REQUIREMENT:-

28.1 Schedule of requirement and desired delivery is shown in attached SCHEDULE-A.

29.0 DRAWINGS :-

29.1 All the bidders have to submit the drawings for the cables and drums to be utilized for packing of the control and power cables, for the lengths specified in this Tender Specification. The cable drawing shall be enclosed with the calculations of current rating, dimensions etc and drum drawings with calculations in support of the size of the drum to accommodate the required length of cable.

30.0 DEVIATIONS:-

30.1 Any deviation to this tender Specification will be out rightly rejected. All the Bidders have to submit this specification duly authenticated without any alterations, additions etc. on each page along with the Technical Bid. Any offer without this will be out rightly rejected.

GUARANTEED TECHNICAL PARAMETER

All cable as per related IS 1554 Part-1, Part-2, IS 5831 & IS 7098 Part-1, Part-2 & Part-3.

Sr. No	Description	Power / Control Cable	HT /LT	KV	No. of Core	Cross Sectional Area[mm ²]	Core Material	Insulation Type	Inner Sheath	Armoring	Outer Sheath	Current Rating G/D/A In AMP.	Short circuit current for 1 sec	Max. Conductor D.C. Resistance at 20 °C Ohm/KM	Normal insulation thickness in MM	Nominal armour dimension in MM
1	ALUMINUM CABLE 1 CORE X 1000 MM ² H.T.	Power	HT	11	1	1000 Sq. mm	Aluminum	XLPE	Extruded PVC Type ST-2	Galvanized Steel Flat Strip	Extruded FRLS PVC	680/ 580 /1070	94.0	0.0291	3.60	4 x 0.80
2	ALUMINUM CABLE 3 COREx185 SqMM HT	Power	HT	11	3	185 Sq. mm	Aluminum	XLPE	Extruded PVC Type ST-2	Galvanized Steel Flat Strip	Extruded FRLS PVC	275/ 240/ 335	17.39	0.164	3.60	4 x 0.80
3	ALLUMINIUM CABLE 3 CORE X 240 MM ² , XLPE 11 KV HT CABLE	Power	HT	11	3	240 Sq. mm	Aluminum	XLPE	Extruded PVC	Galvanized Steel Flat Strip	Extruded FRLS PVC	To be fill up by bidder				
4	3CX50SQMM 11KV(E) GRADE HT XLPE INSULATED FIXED AL CABLE	Power	HT	11	3	50 Sq. mm	Aluminum	XLPE	Extruded PVC	Galvanized Steel Wire/Flat Strip	Extruded	To be fill up by bidder				
5	1CX50SQMM 11KV(E) GRADE HT XLPE INSULATED FIXED AL CABLE	Power	HT	11	1	50 Sq. mm	Aluminum	XLPE	Extruded PVC	Galvanized Steel Wire/Flat Strip	Extruded	To be fill up by bidder				
6	COPPER CABLE 1 CORE X 630 MM	Power	HT	1.1	1	630 Sq. mm	Copper					To be fill up by bidder				

❖ **SPECIAL INSTRUCTIONS TO BIDDER**

Please read following instructions carefully before submitting your bid:

1. All the drawings, i.e. elevation, side view, plan, cross sectional view etc., in AutoCAD format and manuals in PDF format, for offered item shall be submitted. Also the hard copies as per specification shall be submitted.
2. The bidder shall submit Quality Assurance Plan with the technical bid.
3. The bidder shall have to submit all the required type test reports for the offered item. Bid without type tests will not be considered for evaluation.
4. The bidder must fill up all the points of GTP as per attached Schedule C for offered item/s. Instead of indicating "refer drawing, or as per IS/IEC", the exact value/s must be filled in.
5. All the points other than GTP, which are asked to confirm in technical specifications must be submitted separately with the bid.
6. The bidder is required to impart training in view of manufacture, assembly, erection, operation and maintenance for offered item, at his works, to the person/s identified by GSECL, in the event of an order, free of cost. The cost of logistics will be bear by GSECL.
7. Please note that the evaluation will be carried out on the strength of content of bid only. No further correspondence will be made.
8. The bidder shall bring out all the technical deviation/s only at the specified annexure.

❖ **Special Notes to Bidder (POC):**

- 1) Offer should be for our required specifications & specified make only. Required make of cables: Universal, Polycab, KEI, Unicab, Havells, Prestige, KEI, Apar, Thermocables, KC Powertracks, RR cable, RPG or GSECL approved vendor Or Make of offered item already supplied in GUVNL/or its subsidiaries company or NTPC or any government company (for which documentary proof is required with Technical Bid).
- 2) Offered specification/make other than tender requirement may liable for rejection of offer without any correspondence with the bidder. Bidder has to clearly mention the make for which the rates offered in Technical bid.
- 3) Bidder must be OEM/ Authorised dealer only. Authorised dealer has to attach the valid authorisation letter and all the tender required documents of OEM with Technical Bid.
- 4) The cables offered must bear ISI mark. The Bidder shall invariably submit the attested copy of ISI certificate. Any cables without this mark will be out rightly rejected. The cables will be accepted only from the works, name and address of which is indicated in the offer.
- 5) All the bids shall comprise the copy of type test reports, of any of the quoted size, which shall not be later than Ten years from the date of opening of the Tender. However GSECL reserves the right to ask any or all the suppliers to carry out the Type Test at the Government Approved Testing Laboratory on the ordered size/s. The GSECL reserves the right to indicate the name of the NABL accredited Testing Lab at his own discretion and the Supplier will have to carry out the Type Tests in the designated laboratory at his own cost.
- 6) The quantity of each size offered shall be indicated clearly in the Technical Bid. The Bid will be out rightly rejected if this clause is not found clear.
- 7) This Specification shall be signed page to page without any addition / alteration and shall be submitted with the Technical Bid. Any offer without this will be out rightly rejected.
- 8) Submission of GTP dully filled by bidder as per attached Schedule C for each of cables with technical bid. Any offer without this will be out rightly rejected.
- 9) The embossing of brand name of cable should be at every meter length of cable as per relevant IS.
- 10) The drum of cable should be marked with size of cable. Year of manufacture, length, PO & other relevant detail as per IS.
- 11) The bidder must have to supply the fresh stock of each item.
- 12) Guarantee: If the goods found defective due to bad design or workmanship, the same should be repaired or replaced by you free of charge if reported within 18 Months from the date of receipt at site or 12 Months from the date of commissioning whichever is earlier. You the

respective guarantee period. You shall have to replace faulty materials within 30 days, failing to which GSECL may initiate punitive actions.

- 13) GSECL reserves rights for Testing of Supplied Item / Items at their Discretion & will arrange accordingly. For testing of the Supplied Item will be selected randomly and they will be tested as per Specifications. If the Results are not as per specification or supply item are not found dimensionally ok then the Entire Supply / Part Supply will be rejected.
- 14) Bidder shall have to submit technical Literature/detail catalogue (with picture) along with technical bid for offered make cables.
- 15) All material should be supplied at Ukai TPS Main store i.e FOR Ukai TPS Main Store.

❖ **Purchase Agreement**

The successful bidder has to execute agreement (Format attached) in on Non-Judicial Stamp paper of Rs.300/- duly Notarized as per Annexures within 10 days after the payment of S.D. / e-PBG amount. The cost of Non-judicial stamp and Notary charges will be borne by you.

The agreement shall be executed between GSECL and the authorized representative of successful bidder as mentioned hereunder.



SCHEDULE – C
GURANTEED TECHNICAL PARTICULARS

(To be filled by the Bidder for Item Sr no 1 to 6)

The Guaranteed Technical particulars furnished below for each size of cable shall be duly attested by the Bidder. Any correction / alterations in this GTP will lead to outright rejection of the Bid. Blank Space shown in the Column of details shall be furnished by bidder invariably. In no case any column should be left blank.

SR. NO	DESCRIPTION	As per related IS	Offered by bidder
0	Make		
1	Voltage Grade (VOLT)		
2	Suitable for earthed or unearthed system		
3	Material		
4	No. of strands per core		
5	Diameter Of the conductor-(mm)(min)		
6	Cross-sectional area(mm ²)- (1)Nominal (2)Minimum		
7	Resistance at 20 °C (Ω/KM)(Max)		
8	Resistivity(Ω-mm ² /meter)		
9	Density (Gm/Cu-Cm)		
10	Constant Mass Temperature Coefficient for resistance - For Aluminium-per °C		
11	Elongation in % , Minimum		
12	Coefficient of Linear Expansion per °C		
13	Modulus of Elasticity (Kg/cm ²)		
14	Material		
15	Thickness of PVC Core Insulation (mm)- (1) Nominal (2) Minimum		
16	Volume Resistivity (Ω/cm)- (1)At 20 °C (2)At 70 °C		
17	Tensile Strength (N/mm ²)(Min)		
18	Elongation in %		
19	Color code for Core Identification		
20	Material		
21	Thickness of PVC Inner Sheath(mm)- (1) Nominal (2) Minimum		
22	Tensile Strength (N/mm ²)(Min)		
23	Elongation in %		

24	Color code for Core Identification		
25	Material		
26	Thickness of PVC Outer Sheath(mm)-(Minimum)		
27	Tensile Strength (N/mm ²)(Min)		
28	Elongation in %		
29	Color code for Core Identification		
30	Overall Diameter of cable-(mm)(min)		
31	Material/Type		
32	Diameter Of Armour Wire-(mm) (1)Nominal (2) Minimum		
33	Resistance at 20 °C (Ω/KM)(Max)		
34	Tensile Strength (N/mm ²)(Min)		
35	Elongation in %		
36	Density at 20 °C (Gm/Cu-Cm)		
37	Coefficient of Linear Expansion per °C		
38	Modulus of Elasticity (Kg/sq.cm)		
39	Overall Diameter of Armour-(mm)(min)		
40	Continuous Current Rating (A)- (1) In Ground (2) In Duct (3) In Air		
41	Short Time Current Rating for 1 Sec. (KA)		
42	Insulation Resistance (Ω/mm)- (1)At 20 °C (2)At 75 °C		
43	Approximate Reactance per 1000 m at 50 Hz (Ω)		
44	Approximate Capacitance per 1000 m at 50 Hz (μF)		
45	Safe Pulling Force -		
46	Minimum Radius of Insulation		
47	Length per Drum(meter)- (1)Nominal (2)Maximum (3)Minimum		

Name of Bidder: _____

Signature of the Bidder: _____

Date: _____

Name : _____

Designation: _____

Authorized common rubber

Stamp / seal of the bidder: _____



GUJARAT STATE ELECTRICITY CORPORATION LIMITED

**SECTION B: SPECIAL & COMMERCIAL
TERMS AND CONDITIONS OF GSECL**

OF

Supply of HT cable at GSECL, UTPS.

1. DELIVERY SCHEDULE:

- (i) **Sample Submission for approval: N.A.**
- (ii) **Bulk Supply: Within 120 Days** from the date of issue of PO.

2. PENALTY

Any delay that may take place in supply and / or erection, testing and commissioning activities beyond Contractual cutoff date/stipulated period in the order shall be subjected to penalty (not liquidated damages) at the rate of 1/2 % of the contract price/order price per week or part thereof plus applicable taxes (if any) on delayed portion or part thereof subject to maximum of 10% plus applicable taxes (if any) of the total contract value/order value on delayed portion (i.e. End cost including applicable Taxes (if any)).

3. PAYMENT TERMS

- You shall have to accept GSECL Standard Payment Terms and Conditions i.e. 80% FOR Destination Price from the date of receipt of material against TRC within 30 (Thirty) days on verifying required documents as per A/T conditions, amount of GST and applicable cess will be kept under retention till submission of documentary proof of payment of GST or till reflection of payment of GST pertain to respective bill amount in GST Return for concern Order after due verification and balance 20% of FOR Destination Price within 45 (Forty Five) days on receipt of Store Receipt (SR) Note from the consignee.
- The new section 194Q (introduced vide the Finance Act, 2021) imposes requirement to deduct tax at source @ 0.1% on the purchase of goods subject to meeting the specified thresholds provided under the said section. Correspondingly, it is also provided that, where TDS under the above section 194Q is deductible and is so deducted, the tax collection at source (TCS) under section 206(1H) shall not be applicable to the seller on sale of goods.
Accordingly, TDS @ 0.1% will be applicable as per the Govt. Notification on the total order value of supply excluding taxes & duties, GST etc. TDS on GST shall be applicable as per GST law.
- You are requested to furnish details:
 - 1) Account Number:
 - 2) Type of Account
 - 3) Bank Name
 - 4) Branch Name and Address
 - 5) Contact No. of Branch
 - 6) IFSC No.
- TDS will be applicable as per the Govt. Notification on total order value of supply excluding taxes and duties, GST etc. TDS on GST shall be applicable as per GST law.

4. Security Deposit (SD) / e-PBG (Performance Security): As per General Terms and Conditions of GeM.

Performance Security must be submitted by Seller to the Buyer within 15 days of award of contract on GeM. The payments to the seller shall become due only after receipt of Performance Security by the Buyer and verification of its genuineness. No interest shall be payable upon the Performance Security / PBG or any other amounts payable by the Seller to the Buyer under the Contract.

If the Seller fails or neglects to observe or perform any of his obligations under the contract it shall be lawful for the Buyer to forfeit either in whole or in part, the Performance Security furnished by the Seller. If the Seller duly performs and completes the contract in all respects the Buyer shall, refund the Performance Security, as the case may be, to the Seller within 30 days of completion of all contractual obligations by the Seller.

5. PBG TOWARDS WARARANTY / GUARANTEE: Applicable In This Tender

Performance bank guarantee for your product valid for 18 months from the date of receipt of materials or 12 months from the date of commissioning whichever is earlier, and bank guarantee for 5 % of the order end cost value against standard performance guarantee shall be submitted on non judicial stamp paper of Rs.300.00 as per the prescribed form enclosed herewith.

6. GSECL reserves the right to terminate the Contract (i.e. Purchase order) at any time, without assigning any reasons, whatsoever, by giving a notice period of ONE month from the date of Notice of termination of the Contract. Suppliers will not be entitled for any compensations / damages / losses, whatsoever, on account of such termination of the Contract.
7. All bidders shall submit the details/documents in support of Technical Qualification Requirements duly certified and verified for authenticity from Specified Third-Party Inspection Agency (TPIA) or Statutory Auditor of their Company or Practicing CA/CA Firm along with a certificate regarding verification of authenticity of documents as per the format placed at Appendix 1. All the documents submitted by the bidder in support of meeting Technical QR shall be digitally signed by the Specified Third-Party Inspection Agency (TPIA) or Statutory Auditor of their Company or Practicing CA/CA Firm. In case documents are certified & verified for authenticity through TPIA, the verification and certification of authenticity of documents is acceptable from any of the following TPIAs:
1. M/s Competent Inspectorate and Consultants Pvt. Ltd, Hyderabad, India.
 2. M/s Gulf Lloyds Industrial Service India Pvt. Ltd.-Ahmedabad.
 3. M/s International Certifications Services.
 4. M/s Intertek India Pvt. Ltd.
 5. M/s SGS India Pvt. Ltd.
 6. M/s Moody International (India) Pvt. Ltd.
 7. M/s TUV SUD South Asia (P) Ltd.

The following website may be referred for contact details of above TPIAs:
http://nabcb.qci.org.in/accreditation/reg_bod_inspection_bodies.php

Any document/documents in support of Technical QR, which is not certified by the Specified Third-Party Inspection Agency (TPIA) or Statutory Auditor of their Company or Practicing

CA/CA Firm, as per the format enclosed with the bidding documents, shall not be considered verified/certified for the purpose of evaluation, and the bid shall be liable for rejection.

The Bidder shall be responsible to get their documents/ credentials verified & certified by the Specified Third-Party Inspection Agency (TPIA) or Statutory Auditor of their Company or Practicing CA/CA Firm in support of Technical QR. All the costs pertaining to third party verification and certification (including those by statutory auditors) shall be borne by the Bidder. GSECL shall have no liability (financial or otherwise) towards the same and shall not be liable for any claim/ dispute between the bidder and the Specified Third-Party Inspection Agency (TPIA) or Statutory Auditor of their Company or Practicing CA/CA Firm.”

List of Documents to be certified are as under,

1. Past order copies (other than GSECL)
2. Authorized dealer certificate/OEM Certificate
3. Test Certificate
4. Financial standing through latest I.T.C.C., Annual report (balance sheet and profit & Loss Account) of last 3 years.
5. Any other supporting documents.

Appendix 1

Undertaking from Third Party Inspection Agency/Statutory Auditor or Practicing CA/CA Firm

(On letter head digitally signed by a person duly authorized to Sign on behalf of the firm)

Ref:

Date:

To,
GSECL.

Power Station

Subject: Authentication of veracity of documents submitted by M/s in support of
Meeting the Qualifying Requirements

Ref: Tender no.

Name of the Package/ Tender:

Dear Sir,

M/s. (hereinafter called Bidder) having Registered office at
..... intend to participate in above referred tender of GSECL.

The tender condition stipulates that the bidder shall submit supporting Documents pertaining to Qualifying Requirement duly verified and certified by Third-Party Inspection Agency (TPIA) or Statutory Auditor of their Company or Practicing CA/CA Firm as per the list mentioned in the bidding documents.

In this regard, it is hereby confirmed that we have examined the following documents, which are also attached with this letter. The same has been verified from the Original Documents and / or Client for authenticity.

We hereby confirm that the following documents are found to be genuine and authentic.

1. Doc ref. no. dated (Name of document)
2. Doc ref. no. dated (Name of document)
3.

All the aforesaid documents have been digitally signed by us as a certificate of authenticity.

We further confirm that we neither have any vested interest in aforesaid tender nor have any conflict of interest in respect of above tender.

This certificate is issued at the request of M/s (Bidder) for the purpose of participating in the subject tender/s.

Thanking you,

❖ COMMERCIAL TERMS AND CONDITIONS

1. Bidder should submit scanned copy of PAN and copy of GST Registration, Bank Details along with cancelled cheque in GeM bid. TDS (Income Tax) and GST TDS will be deducted as per rules.
2. Your offer should be valid for a period of 120 days from the date of opening of the technical bids. In case, if finalization of the tender is likely to be delayed, the bidders will be asked to extend the same without change in prices or any terms & conditions of the offer.

If any change is made, original or during the extended validity period, the offers will be liable for outright rejection without entering into further correspondence in this regard and no reference will be made.

3. Prices quoted should be on F.O.R. Destination basis (i.e. Thermal Power Stations of GSECL). Tenderer should indicate the break-up of Total Unit F.O.R. Destination Price and Total Unit End Cost with GST and Cess as applicable separately in Price Bid which is a must.
4. **Tender Fee:** Not Applicable as per GeM norms.
5. **(i)EMD: All Bidders have to submit EMD amount Rs. 6,90,978.00 compulsory other wise offer will be liable to be rejected.**

(ii) Eligibility for Exemption of EMD amount.

- a) Micro & small-scale enterprises which participate directly in tendering process for the product which they are manufacturing/service which they are providing and have Udyam registration for items/service under procurement and having registration with CSPO or National Small Industries Corporation.
- b) Startups which participate directly in tendering process for the product which they are manufacturing / service which they are providing and recognised by DPIIT under the Start-up India Program and has obtained Udyam registration & CSPO/NSIC registration as MSE
- c) Organization which has registration certificate for the manufacturing product of the tender, from Gujarat Khadi Gramodyog Board or Khadi and Village Industries Commission (KVIC) or Commissioner of Cottage Industries.
- d) Board/Corporations/PSUs of the Central/State Government for their own manufactured items
- e) State Government recognized organizations like (i) organizations for blinds, dumb and deaf, disabled, mentally disabled persons; (ii), women's self-help group recognized by Gujarat Livelihood Promotion Company, which participate directly in tendering process for the product which they are manufacturing /service which /they are providing.
- f) Sellers who have got their credentials verified through the process of Vendor Assessment by Vendor Assessment Agencies through GeM for the Primary Product/Primary Service for which Bid/RA floated on GeM,
- g) In keeping with GeM guidelines, OEM and service providers rendering services directly or by its own and having annual turnover of INR 500 Crore or more.
- h) In keeping with GeM guidelines, Sellers/Service Providers holding BIS license, for the Primary Product Category whose credentials are validated through BIS database.

Signature of Tenderer
Date:

Company's Round Seal



GUJARAT STATE ELECTRICITY CORPORATION LIMITED

SECTION C: GENERAL TERMS AND CONDITIONS OF GSECL

[On Company's Letter Head]

ANNEXURE – 1

Subject: Supply of HT cable at GSECL, UTPS.

Reference: GeM Bid No: GEM/2025/B/6060752

Due on Date:

In connection with the above subject and reference I / We confirm the following:

1. I / We, the under signed have read and examined the Tender Specifications in tender mentioned under reference along with the Commercial Terms and Conditions of GSECL.
2. I / We, declare that our Technical Bid is strictly in line with the Tender Specifications (except the deviations shown in Annexure of Technical Deviations as per Clause No. 10 of this tender Section: D).
3. Further, I / We also agree that additional conditions / deviations, if any, found in the Commercial terms & conditions (except reference under Clause No. 10 of this tender Section: D), our offer shall be out rightly rejected without assigning any reason thereof.

Seal of the Firm

**Signature of the Authorised
Representatives of the firm**

Date:

Name:

Status:

Name of the Tendering Firm / Agency:

[On Company's Letter Head]

ANNEXURE – 2

I / WE, confirm that following documents are filled in format of the Technical Bid:

No	Details	Confirmation (Tick ✓ any one)
1	Firm's details as per "Annexure – 3"	YES / NO
2	Copy of the un-priced schedule i.e. "Annexure – 4". (Description and quantity of items offered in price schedule without price)	YES / NO
3	Delivery Schedule as per "Annexure – 5"	YES / NO
4	Past experience details as per "Annexure – 6"	YES / NO
5	List of Performance certificates as per "Annexure – 7"	YES / NO
6	List of Type test reports as per "Annexure – 8"	YES / NO
7	Confirmation of GSECL Technical Specification	YES / NO
8	Guaranteed Technical Particulars submitted in Company Performa only.	YES / NO
9	ANNEXURE – 10	YES / NO
10	ANNEXURE – 11	YES / NO
11	ANNEXURE – 12	YES / NO
12	ANNEXURE – 13	YES / NO
13	ANNEXURE – 14: Undertaking in regard to Stop Deal / Black List thereof	YES / NO
14	ANNEXURE – 15: Declaration as manufacturer of tender Item/s	YES / NO
15	ANNEXURE – 16: Certificate "A"	
16	ANNEXURE – 17: Important Instruction	YES / NO
17	ANNEXURE – 18: Declaration in respect of Conflict of Interest	YES / NO
18	ANNEXURE – 19: Consent for Buyer Added Specific Terms & Condition	YES / NO
19	ANNEXURE – 20: Check List	YES / NO

[On Company's Letter Head]

ANNEXURE – 3

DETAILS OF THE FIRM

These details are necessary to create the database of suppliers

Supplier Name			
Works / factory at			
Within Gujarat / Outside Gujarat			
Pvt. Firm / Public Ltd. / State Govt. Undertaking / Central Govt. undertaking		(Indicate the relevant status)	
Supplier Category		Manufacturer / Authorized dealer / Distributor / Trader / Agent	
Vendor Registration Letter No. & Date		NOT APPLICABLE	
Vendor Registration Fee for New Entrants / Re-registration		NOT APPLICABLE	
Vendor Registration / Re-registration fee paid Date		NOT APPLICABLE	
Vendor Registration Validity Period		NOT APPLICABLE	
VAT / TIN No. and VAT / TIN Date, if applicable			
GST Registration No. and GST Date			
MSEs / SSI Certificate / EM No. and Date			
NSIC/DGS&D/CSPO Certificate No. (Should be revalidated since last 3 yrs.)@			
NSIC/ DGS&D/CSPO Certificate Date. @			
Whether under NSIC / DGS&D / CSPO scheme. If Yes then Monetary limit. @		Rs.	
Custom No. and Date (If applicable)			
ISO Certification Details			
Name of ISO Certification Agency			
Validity Period of ISO Certification		From Date_____ to Date_____	
Address of	Registered Office	Factory / Works	Authorized Representative (As per cond. no.:40 above)
Contact Person Name			
Designation			
Address			
City & Pin code			
State			
Country			
Phone Nos.(Office)			
Phone Nos.(Residence)			
Fax Nos.			

[On Company's Letter Head]

ANNEXURE – 3 (Continued)

STD Code.			
Mobile No.			
Web site address			
Email-id			
Specimen signature			

DETAILS OF PARTNERS / DIRECTORS OF FIRM / COMPANY

Sr. No.:	Name of Partners / Directors DIN no. as applicable	e Mail ID	Address of Office & Contact Phone / Fax No. / Mobile No.	Address of Residence & Contact Phone / Fax No./ Mobile No.
1				
2				
3				
4				
5				

Name of Authorized Signatory:

@ Applicable for Gujarat based (Works in Gujarat) bidders only.

[On Company's Letter Head]

ANNEXURE – 4

UN – PRICED SCHEDULE (COPY WITHOUT PRICES)

Sr. No.	Details of the Items / Equipments Offered	Quantity Offered	Firm's Per Annum Production Capacity for the offered item / items @

@ No. of shift per day in operation at factory/works considered for working out annual production capacity may be mentioned.

[On Company's Letter Head]

ANNEXURE – 5

DELIVERY SCHEDULE

Tenderer should furnish their Delivery Schedule of the tendered items in the following table only

Approval of drawing / prototype sample, if applicable is to be completed in commencement period only (as indicated by COMPANY in the tender)

Sr. No.	Details of the Items / Equipment Offered	Tenderer's Commencement Period as per tender	Tenderer's Delivery Schedule after Commencement period.

Note:

The bid will be rejected if offered delivery is more than the requirement of tender, without going in to further correspondence with bidder.

GSECL

[On Company's Letter Head]

ANNEXURE – 6

DETAILS OF THE EXPERIENCE FOR SUPPLY OF TENDER ITEM / SIMILAR TYPE
OF TENDER ITEM IN LAST FIVE YEARS FROM THE DUE DATE OF GeM BID:

No	ITEMS SUPPLIED TO	ORDER REFERENCE No. & DATE	Name of ITEMS	ORDER QUANTITY	ORDER FULLY EXECUTED YES / NO	STATUS, IF ORDER UNDER EXECUTION	Qty. on hand if order under execution	REMARKS
A	GUVNL (Formerly GEB) MGVL/UGVL/DGVL/PGVL/GETCO/GSECL							
1) 2) 3) 4) 5)								
B	OTHER STATE ELECTRICITY BOARD:							
1) 2) 3) 4) 5)								
C	PRIVATE FIRMS:							
1) 2) 3) 4) 5)								

[On Company's Letter Head]

ANNEXURE – 7

LIST OF PERFORMANCE CERTIFICATES

**(SCANNED COPY/IES OF PERFORMANCE REPORT/S TO BE UPLOADED IN
GeM BID ONLY)**

Sr. No.	Name of the Authority by whom certificate is issued	Reference No. & Date	Details of items supplied
1	2	3	4

GSECL

[On Company's Letter Head]

ANNEXURE – 8

LIST OF TYPE TESTS REPORTS

(SCANNED COPY/IES OF TYPE TEST REPORT/S DULY NOTARIZED OF EACH OFFERED ITEM AS PER REQUIREMENT)

No	Type Test Report No. & Date	Tests Carried out at (Name of Laboratory)	Rating & Type / Designation of Item / Equipment	Name of the test Conducted	Results Of the Tests.

GSECL

[On Company's Letter Head]

ANNEXURE – 9

LIST OF THE TENDER DRAWINGS

(DRAWING OF EACH OF ITEM OFFERED AS PER REQUIREMENT OF
TENDER TO BE SUBMITTED)

No.	Description / drawing of	Drawing Number	Number of Sheets
1	2	3	4



[On Company's Letter Head]

ANNEXURE – 10

Vendor must fill up below details & should place at the top of the Technical Bid.

No	Description		
1	PRICES: [FIRM ONLY] [Please specify Yes / No]	:	
2	RATES QUOTED Pkg & Fwdg charges: Freight charges: Insurance charges:	: : : :	FOR: Inclusive____% / Exclusive____% Inclusive____% / Exclusive____% Inclusive____% / Exclusive____%
3	GST: [IN PERCENTAGE] (Please Specify INCUSIVE / EXCLUSIVE / EXEMPTED)	:	
	Please quote your GST Registration No. : & Date	:	
4	Please specify place of manufacturer unit from where material is to be supplied	:	
5	PENALTY TERMS AGREED: _____ (Please Specify YES/NO.)		
6	SECURITY TERMS AGREED: _____ (Please Specify YES/NO.)		
7	Performance Bank Guarantee TERMS AGREED (Wherever applicable): 10 % of Order End Cost : _____ (Please Specify YES / NO.)	:	
8	DETAILS OF EMD PAYMENT		
9	DELIVERY TERMS AGREED:_ (Please Specify YES/NO.)		
10	VALIDITY OF THE OFFER AGREED: 120 Days from the date of opening of (Please Specify YES/NO.)		
11	PAYMENT TERMS AGREED as per Tender Document: _____ (Please Specify YES/NO.)		
12	ITEMS OFFERED:		
13	Mobile No./Telephone Nos. & Fax No: & Mail ID	:	
14	Authorized person of the firm	:	
15	Name of the proprietor, partners, directors [as the case may be], along with address, telephone, fax no. etc.	:	
16	If Vendor Registration is Done (Please submit copy of Vendor Registration approval letter in the EMD cover)	:	NOT APPLICABLE

Company's Round Seal

Signature of Tenderer

ANNEXURE – 11

(SCANNED / PHOTO COPY OF EACH OF FOLLOWING TO BE SUBMITTED IN GeM BID AS AN ATTACHMENT)

Vendors must furnish the below details / documents along with Technical Bid as attachments in GeM Bid:

1. List of testing equipment's (must have been calibrated up dated) for offered item/s of tender
2. List of machinery installed for manufacturing of offered item/s of tender
3. Annual production capacity (with shift in operation) of each item manufactured
4. Copy showing GST Registration no. and date and issuing authority
5. Copy of valid factory license (for manufacturer)
6. Copy showing Registration No. under shops and Estt. Act and issuing authority (if applicable)
7. Audited Accounts and financial turnover of Last Three Years of the firm, duly certified by Authorized Charter Accountant
8. Performance reports, if any
9. Consent letter from their principals to manufacture such items whenever applicable
10. Copy of partnership deed / Memorandum of Pvt. or Public limited company's, issued by RoC
11. Copy of each order of subsidiary company of GUVNL for each item offered which are executed in last five years (list to be submitted in physical form in "EMD Cover Document" also)
12. Copy of each order of subsidiary company of GUVNL and other COMPANY / SEB for each item offered, which is under execution.

Note: In case of non-attachment of mandatory document or attachment of wrong document, bid/offer shall be rejected.

.....

[On Company's Letter Head]

ANNEXURE – 12

**TECHNICAL DEVIATIONS (IF ANY) TO BE FURNISHED IN THIS ANNEXURE
ONLY**



[On Company's Letter Head]

ANNEXURE – 13

(UNDERTAKING IN REGARD TO QUOTED PRICE)

(All bidders will have to furnish the following undertaking duly filled in, for all the quoted item/s of the tender along with online Technical)

We accept and undertake that GSECL is authorized to place LOA / Purchase Order at lower 'unit ex-works price with GST on ex-works price' than the 'unit ex-works price with GST on ex-works price' quoted / offered by us in the present tender of GSECL for tendered item/s with similar specifications as per the above tender of GSECL, which is quoted / offered to other subsidiary company of GUVNL, during the period of past 30 days from last date of submission of this tender to next 30 days after the last date of submission of bid of this tender by GSECL.

We also understand that LOA / Purchase Order placed by one subsidiaries of GUVNL on the basis of above undertaking shall not be considered as 'offered' price for the tender items in subsequent tender by other subsidiaries of GUVNL, if it is not within period mentioned above.

I / We accept above undertaking.

Seal of the Firm

**Signature of the Tenderer
With Designation**

Place:

Date:

GSECL

[On Company's Letter Head]

ANNEXURE – 14

UNDERTAKING IN REGARD TO STOP DEAL / BANNED FOR BUSINESS DEALING / BLACKLIST THEREOF.

**Sub: Undertaking in regard to Stop Deal / Banned for Business dealing / Blacklist
Thereof.**

Ref: GeM Bid No.:

I / We _____ authorized
signatory of M/S _____ here by certify that M/S
_____ and their proprietor / any partner / any
directors of the firm is not stop deal and/or banned for business dealing and/or black listed by
any Govt. organization.

Signature of the Tenderer

Seal of the Firm

GSECL

[On Company's Letter Head]

ANNEXURE – 15

Ref.: GeM Bid No:

Date:

“I / We declare that we are manufacturer for all the tendered items”.

Confirm / Not Confirm: _____

Name of Bidder / Manufacturer: _____

Address of the works:



[On Company's Letter Head]

ANNEXURE – 16

CERTIFICATE – “A”

I / We _____ authorised signatory of
M/s. _____ hereby certify that
M/s. _____ is not related with other firms who have
submitted tenders for the same items under this inquiry / Tender.

Seal of the Firm

**Signature of the Tenderer
With Designation**

Place:

Date:



[On Company's Letter Head]

ANNEXURE – 17

Tender No. GSECL/ ET-5919 (GeM)

Due On:

IMPORTANT INSTRUCTIONS

1. The Tenderer should clearly give certificate along with the Technical Bid:

“This is to confirm and certify that the offer submitted by me is strictly in accordance with GSECL Tender specifications, Guaranteed Technical Particulars and drawing as mentioned in the Tender Specifications. There is no commercial or Technical deviation (except the deviations shown in Annexure of Technical Deviations as per Clause No. 10 of this tender Section: D) in the offer from GSECL Tender Specification. I undertake to abide by GSECL Technical specification / Guaranteed Technical Particulars / Drawing, I undertake to supply materials strictly as per GSECL Technical specification / Guaranteed Technical Particulars / Drawing, even if any technical deviations are mentioned by me. I also undertake to abide by all commercial conditions of GSECL, including delivery schedule.”

(Signature of the Tenderer)

2. Any offer without above certificate will not be considered and the tender will be out rightly ignored in the absence of above certificate.
3. After opening of the Tender, if it is found that the offer given by the Tenderer is not according to GSECL specifications, Guaranteed Technical Specifications, Drawing and commercial terms and conditions and false certificate is given by the Tenderer, then GSECL will not deal with the firm for the present Tender. It is, therefore requested that the Tenderer should take care in giving their offer and submission of documents, including Type Test certificate.
4. The conditional tenders will not be accepted.

[On Company's Letter Head]

ANNEXURE – 18

DECLARATION IN RESPECT OF CONFLICT OF INTEREST

We hereby certify that our firm M/S. _____ do not have any conflict of interest with other bidders for particular quoted item viz. _____.

We hereby declare and confirm that the above information and particulars are true and correct.

For _____

Authorized Signature of Tenderer

Seal of the Firm

Place:

Date:

GSECL

[On Company's Letter Head]

ANNEXURE – 19

Consent for Buyer Added Specific Terms & Condition

We hereby certify that I / We have read all the Terms & Condition of the bid (Including Buyer Added Specific Terms & Condition) and other document attached in GeM Bid No._____.

I / We hereby agree with all the terms and condition as per GeM Bid No:.

For_____

Authorized Signature of Tenderer

Seal of the Firm

Place:

Date:

GSECL

[On Company's Letter Head]

ANNEXURE – 20

CHECK LIST

GeM Bid No:

Name of the Tender:

Name of the Firm:

Full Address of the Firm & Bidder (For Communication):

e Mail Address:

Mobile No:

Commercial Terms of Conditions of GSECL

No	Clause No	Clause Description (in Short)	Remarks / Page No
1	1 of Section: C	Scanned copy of PAN and GST Registration, Bank Details along with cancelled cheque	
2	2 of Section: C	Validity of offer for a period of 120 days from the date of opening of the technical bids	
3	5 of Section: C	EMD	Udyam Registration Certificate & CSPO/NSIC (Manufacturing / Services) No: Place: OR DD No: Date: OR RTGS / NEFT No: Date:
14	Section: D	Integrity Pact duly stamped and Signed	
		Annexure-14 (Undertaking Regarding Stop Deal / Banned duly stamped and Signed on Company's letter head	
		Annexure-18 (Conflict of Interest among Bidders / Agents) duly stamped and Signed on Company's letter head	
		Annexure-19 (Consent for Buyer Added Specific Terms & Condition)	

T&C as per GeM Bid:

No	Clause Description (in Short)	Remarks (if Not Agreed) / Attach document if required
1	ePBG (as per GTC of GeM): After award of contract, Successful Bidder can upload scanned copy of the DD in place of PBG and has to ensure delivery of hard copy to the original DD to the Buyer within 15 days of award of contract.	
2	Experience Criteria	
3	Past Performance	
4	Bidder Turnover	
5	Certificate (Requested in ATC)	
6	OEM Authorization Certificate	
7	OEM Annual Turnover	
8	Compliance of BoQ specification and supporting document	
9	Balance Sheet of Last 3 Years	
10	Audited Profit and loss account of last 3 Years	
11	Turnover duly certified by C.A. Last Three Year	
12	Undertaking regarding Acceptance of Terms & Conditions of bid	
13	Tender Specific Authorization (OEM) Certificate	
14	Technical Specification Compliance	

GSECL

FORMAT-1

(ON STAMP PAPER OF Rs.300/-)

E. M. D. BANK GUARANTEE FORMAT

FOR TENDER NO. _____ (Gujarat State Electricity Corporation Ltd.)

Whereas M/s. _____ (Name & Address of the Firm) having their registered office at (Address of the firms Registered office) (Here in after called the 'Tenderer') wish to participate in the tender No. _____ for _____ (Supply/ Erection/ Supply & Erection Work) (Name of the material/ equipment/ Work) For Gujarat State Electricity Corporation Ltd (Hereinafter called the "Beneficiary") and whereas Bank Guarantee for Rs. _____ (Amount of Bank Guarantee towards EMD) valid till _____ (Mention here date of validity of this guarantee which will be 6 (Six) months from the date of submission of Bid of the tender) which is required to **be submitted by the Tenderer along with the tender.**

We, _____ (Name of the Bank and address of the Branch giving the Bank Guarantee) having our registered office at _____ (Address of Bank's registered office) hereby give this Bank Guarantee No. _____ dated _____ and hereby agree unequivocally and Unconditionally to pay within 48 hours on demand in writing from the Gujarat State Electricity Corporation Ltd or any officer authorized by it In this behalf any amount not exceeding Rs. _____ (Amount of E.M.D.), (Rupees _____ (In words) to the said Gujarat State Electricity Corporation Ltd on behalf of the Tenderer.

We _____ (Name of the Bank) also agree that withdrawal of the tender or part thereof by the tenderer within its validity or Non submission of performance Guarantee towards execution/ supply period by the Tenderer within 15 days from the date of issue of letter of acceptance by the Gujarat State Electricity Corporation Ltd would constitute a default on the part of the Tenderer and that this Bank Guarantee is liable to be invoked and en cashed within its validity by the Beneficiary in case of any occurrence of a default on the part of the Tenderer and that the en cashed amount is liable to be forfeited by the Beneficiary.

This agreement shall be valid and binding on this Bank up to and inclusive of _____ (Mention here the date of validity of Bank) and shall not be terminable by notice or by Guarantee) change in the constitution of the Bank or the firm of Tenderer Or by any reason whatsoever and our liability here under shall not be impaired or discharged by any extension of time or variations or alternations made, given, conceded with or without our knowledge or consent by or between the tenderer and the Gujarat State Electricity Corporation Ltd.

Notwithstanding anything contrary contained in any law for the time being in force or banking practice, this bank guarantee shall not be assignable, transferable by the beneficiary (i.e. Gujarat State Electricity Corporation Ltd.). Notice or invocation by any person such as assignee, transferee, or agent of beneficiary shall not be entertained by the bank. Any invocation of the guarantee can be made only by the beneficiary directly.

NOT WITHSTANDING anything contained hereinbefore our liability under this guarantee is restricted to Rs. _____ (Amt. of EMD) Rupees _____ (In words). Our Guarantees shall remain in force till _____ (Date of validity of the Guarantee). Unless demands or claims under this bank Guarantee are made to us in writing on or before _____ (date of validity of bank Guarantee), all rights of beneficiary under this bank Guarantee shall be forfeited and we shall be released and discharged from all liabilities there under:

Place:

Date:

Please Mention here Complete Postal Address of the Bank with Branch Code, Telephone and Fax Nos.	Signature of the Bank's Authorized Signatory with Official Round Seal.

NAME OF DESIGNATED BANKS:

- 1] All Nationalized banks
- 2] Guarantees issued by following banks will be accepted for the period up to 31.03.2025. The validity cutoff date in GR is with respect to date of issue of bank Guarantee irrespective of the date of termination of Bank Guarantee.
 - 1] AXIS Bank
 - 2] Saraswat Co-Operative Bank
 - 3] City Union Bank
 - 4] Rajkot Nagarik Sahakari Bank Ltd.
 - 5] HDFC Bank
 - 6] Saurashtra Gramin Bank
 - 7] IndusInd Bank
 - 8] DCB Bank
 - 9] Kotak Mahindra Bank
 - 10] Tamilnadu Mercantile Bank
 - 11] Nutan Nagarik Sahakari Bank Ltd
 - 12] HSBC Bank
 - 13] ICICI Bank
 - 14] A U Small Finance Bank
 - 15] CSB Bank
 - 16] Federal Bank
 - 17] The Gujarat State Co-operative Bank
 - 18] Equitas Small Finance Bank
 - 19] Ahmedabad Mercantile Co-operative Bank Ltd
 - 20] Bandhan Bank
 - 21] The Kalupur Commercial Co-Operative Bank Ltd.
 - 22] IDBI Bank
 - 23] The Mehsana Urban Co-Operative Bank Ltd
 - 24] DBS Bank India Limited
 - 25] The Surat Peoples Co-Operative Bank
 - 26] The Surat District Co-Operative Bank
 - 27] Karnataka Bank
 - 28] IDFC first bank
 - 29] Karur Vysya Bank
 - 30] South Indian Bank
 - 31] Utkarsh Small Finance Bank
 - 32] SVC Co-Operative Bank Ltd
 - 33] Jana Small Finance Bank
 - 34] The Cosmos Co-Operative bank Limited
 - 35] Baroda Gujarat Gramin Bank

GSECL

FORMAT-2

(ON STAMP PAPER OF RS.300/-)

FORM OF BANKER'S UNDERTAKING

[Bank Guarantee towards Security Deposit for **execution/supply period** as per Commercial Terms and Conditions of Enquiry]

We, _____ (Name of Bank and address of the branch giving the bank _____ Guarantee) having _____ our registered office at _____ (address of Bank's registered office) hereby give this Bank Guarantee No. _____ date: _____ and hereby agree unequivocally and unconditionally to pay immediately on demand in writing from the Gujarat State Electricity Corporation Limited or any Officer authorized by it in this behalf any amount up to and not exceeding Rs. _____ (Amount of Bank Guarantee (BG) towards **execution/supply period**) (Rupees _____ in words) to the said Gujarat State Electricity Corporation Limited on behalf of M/s. _____ who have entered into a contract for the supply/works specified below:

L.O.A/LOI No. _____ dated _____.

This agreement shall be valid and binding on this Bank up to and inclusive of (Date of validity of the Bank Guarantee) and shall not be terminable by notice or by change in the constitution of the Bank or the firm of Contractors / Suppliers or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alterations made, given conceded or agreed, with or without our knowledge or consent, by or between parties to the said within written contract.

"Notwithstanding anything contrary contained in any law for the time being in force or banking practice, this Guarantee shall not be assignable, transferable by the beneficiary (i.e. GUVNL or Subsidiaries). Notice or invocation by any person such as assignee, transferee or agent of beneficiary shall not be entertained by the Bank. Any invocation of the Guarantee can be made only by the beneficiary directly."

"NOTWITHSTANDING" anything contained herein before, our liability under this guarantee is restricted to Rs. _____ (Rupees _____ only). Our guarantee shall remain in force until _____ (Date of validity of the Bank Guarantee). Unless demands or claims under this Bank Guarantee are made to us in writing on or before _____ (Date of validity of the Bank Guarantee), all rights of Beneficiary under this Bank Guarantee shall be forfeited and we shall be released and discharged from all liabilities there under:

Place:

Date:

Please Mention here Complete Postal Address of the Bank with Branch Code, Telephone and Fax Nos.

Signature of the Bank's Authorized Signatory with Official Round Seal.

NAME OF DESIGNATED BANKS:

- 1] All Nationalized banks
- 2] Guarantees issued by following banks will be accepted for the period up to **31.03.2025**. The validity cutoff date in GR is with respect to date of issue of bank Guarantee irrespective of the date of termination of Bank Guarantee.
 - 1] AXIS Bank
 - 2] Saraswat Co-Operative Bank
 - 3] City Union Bank
 - 4] Rajkot Nagarik Sahakari Bank Ltd.
 - 5] HDFC Bank
 - 6] Saurashtra Gramin Bank
 - 7] IndusInd Bank
 - 8] DCB Bank
 - 9] Kotak Mahindra Bank
 - 10] Tamilnadu Mercantile Bank
 - 11] Nutan Nagarik Sahakari Bank Ltd
 - 12] HSBC Bank
 - 13] ICICI Bank
 - 14] A U Small Finance Bank

15] CSB Bank
17] The Gujarat State Co-operative Bank
19] Ahmedabad Mercantile Co-operative Bank Ltd
21] The Kalupur Commercial Co-Operative Bank Ltd.
23] The Mehsana Urban Co-Operative Bank Ltd
25] The Surat Peoples Co-Operative Bank
27] Karnataka Bank
29] Karur Vysya Bank
31] Utkarsh Small Finance Bank
33] Jana Small Finance Bank
35] Baroda Gujarat Gramin Bank

16] Federal Bank
18] Equitas Small Finance Bank
20] Bandhan Bank
22] IDBI Bank
24] DBS Bank India Limited
26] The Surat District Co-Operative Bank
28] IDFC first bank
30] South Indian Bank
32] SVC Co-Operative Bank Ltd
34] The Cosmos Co-Operative bank Limited



FORMAT-3

(On non-judicial stamp paper of Rs. 300/- duly notarized)

AGREEMENT

THIS AGREEMENT made on **this** _____ **day of** _____

BETWEEN

_____ (Name of the Company) having Registered Office at _____ and represented by _____ (Name and designation of the Authorized Officer (herein after called “The Supplier” which expression where the context so requires of admits shall include his legal heir, administrators, executors, assignees and legal representatives) of the ONE PART

AND

Gujarat State Electricity Corporation Limited, Ukai Thermal Power Station, Ukai Dam, Taluka - Fort Songadh Dist – Tapi, Gujarat – 394680 (Name of the Company) having Registered Office at **Vadodara** and represented by _____ (Name and designation of the Authorized Officer (herein after called “The Purchaser / Purchaser Company” which expression where the context so requires of admits shall include his administrators executors, authorized person assignees and legal representatives of the OTHER PART.

WHEREAS, The Supplier willingly submitted bids for the **Tender No.** _____ (**Tender ID No.** _____) of the Purchaser company for _____ (Name of the material / items to be supplied by the Supplier) as specified and as per delivery instructions provided in the Acceptance of Tender (AT) Letter of Acceptance (LOA) issued vide No. _____ **dtd:** _____ by the Purchaser Company at the accepted respective prices or rates mentioned against the said items / materials.

AND WHEREAS THE PURCHASER Company has accepted the tender of the Supplier for the **Supply, Erection, Commissioning and Testing** for the total sum of **Rs.** _____ (**Rupees** _____ **Only**) including taxes upon the terms and subject to the conditions herein mentioned in the agreement

AND WHEREAS a list is made out in the “SCHEDULE” hereunder written and all of which said document of the Schedule are deemed to form part of this agreement and included in the expression “the Supply” wherever herein used upon the terms and subject to the conditions hereinafter mentioned.

NOW THIS AGREEMENT WITNESSES AS UNDER AND IT IS HEREBY AGREED AND DECLARED THAT:-

- (1) The Supplier has accepted the Terms and Conditions set out in the Tender Notice No. _____, **Dt:** _____ As well as in the form of Acceptance of Tender (AT) / Letter of Acceptance (LOA) No _____, **dttd** _____ which will hold good and valid during the period of this agreement.
- (2) The Supplier shall do and perform for all supplies and things in this agreement mentioned and described or which are implied therein of there from respectively or are reasonably necessary for the In-time and in manner supplies as mentioned and subject to the general / commercial terms & conditions and stipulations contained in this agreement.
- (3) In consideration of the due provision, executions, completion of the Supply as agreed to by the supplier as aforesaid, the Purchaser company hereby agrees to pay all the sums of money as and when they become due and payable to the supplier under the provision of the agreement and such payment to be made at such times and in such manner as provided in the agreement.
- (4) In respect of the said Tender as per the terms and conditions of this agreement the Supplier has deposited amount in form of Valid Bank Guarantee of **Rs. _____ (Rupees _____ Only)** with the Purchaser Company towards Performance Guarantee of execution period i.e. for security deposit of the supply material / items.
- (5) Upon breach by the supplier of any of the conditions of this Agreement the Purchaser Company may give a notice in writing rescind, determine and put to an end to the A/T without prejudice to the right of the Purchaser company to claim damages for antecedent breaches thereof on the part of the supplier and also to claim reasonable compensation / risk and cost purchase for the loss occasioned by the Purchaser Company due to failure of the Supplier to fulfill the Order as certified in writing by the Purchaser for which Certificate shall be conclusive evidence of the amount of such compensating payable by the Supplier to the Purchaser.
- (6) The Purchaser Company shall not be bound to take the whole or any part of the ordered quantity herein or therein mentioned in the LOA / AT and may cancel the contract at any time after giving ONE MONTH'S NOTICE IN WRITING without Compensating the Supplier.
- (7) This Agreement shall remain in force till the expiry of satisfactory of performance of the Supply during Guarantee / Warranty period including for the quantity mentioned in the repeat order, if any as per the terms & conditions of the LOA / AT.
- (8) Any notice in Connection with the Supply including the Notice for termination may be given by the Purchaser or Any Authorized Officer for the said purpose as per the commercial Terms & Conditions of the LOA / AT.

- (9) If subject to the circumstances beyond control i.e force majeure conditions Supplier fails to deliver the materials, the same shall be governed as per the Tender Documents.
- (10) The Agreed value, extent of supply, delivery dates, Specifications and other relevant matters may be altered by mutual agreement as per the policy of the purchaser Company and if so altered shall not be deemed of construed to mean or apply to affect or alter other general / commercial terms & conditions of the agreement and the agreement so altered or revised shall be and shall always be deemed to have been adhered subject to and without prejudice to said stipulation.
- (11) The following is the Schedule forming part of this agreement as provided herein above.

SCHEDULE

List of documents

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.

In witness where of the parties hereto have set their hands and seals this day, month and year first above written.

Place : _____

Date :

1. Signed Sealed and delivered by
Name, designation, signature with seal or stamp of authorized officer

(Signature with Name, Designation & Official Seal / Stamp)

For and on behalf of M/s. _____ (Supplier)

(Complete Name Address of the authorized person of the Supplier with Purchaser Letter of Board's Resolution in case of company)

In presence of Name, full Address & Signatures:

i) (Please mention name and address with signature of your witness-1)

.....

ii) (Please mention name and address with signature of your witness-2)

.....

.....

2. Signed Sealed and Delivered by

(Signature with Name, Designation & Official Seal / Stamp)

For and on behalf of M/s..... (Purchaser)

(Complete Name Designation & Location / Address of the authorized officer as per DOP of the Purchaser Company)

In presence of Name, full Address & Signatures:

i)

.....

ii)

.....

GSECL



GUJARAT STATE ELECTRICITY CORPORATION LIMITE

SECTION E: PQC (Pre-Qualification Criteria)

Bidder to satisfy all the following requirements-

1. Bidder must be OEM/ Authorised dealer only. Authorised dealer has to attach the valid authorisation letter and all the tender required documents of OEM with Technical Bid.
2. The Bidders have to submit proof of the satisfactory completion of order for supply of quoted sizes of the cables for the quantity not less than 100 Kms during last five years of total of all the sizes of Power/control cables from utilities like Government /Semi government/State Electricity Corporations, NTPC, PGCIL, PVT etc. Any Technical offer without this certificate will be out rightly rejected. The proof means the Purchaser's certificate of completing the supply within the stipulated time limit for the ordered quantity. However the total quantity supplied shall not be less than the one stated above (i.e. 100 Kms).

The details are to be submitted in following format:

Sr. No	ITEMS SUPPLIED TO	ORDER REFERENCE No. & DATE	ITEMS	QTY	ORDER FULLY EXECUTED. YES/NO	STATUS, IF ORDER UNDER EXECUTION	REMARK
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3. The cables offered must bear ISI mark. The Bidder shall invariably submit the attested copy of ISI certificate. Any cables without this mark will be out rightly rejected. The cables will be accepted only from the works, name and address of which is indicated in the offer.
4. All the bids shall comprise the copy of type test reports, of any of the quoted size, which shall not be later than Ten years from the date of opening of the Tender. However GSECL reserves the right to ask any or all the suppliers to carry out the Type Test at the Government Approved Testing Laboratory on the ordered size/s. The GSECL reserves the right to indicate the name of the NABL accredited Testing Lab at his own discretion and the Supplier will have to carry out the Type Tests in the designated laboratory at his own cost.
5. The quantity of each size offered shall be indicated clearly in the Technical Bid. The Bid will be out rightly rejected if this clause is not found clear.
6. This Specification shall be signed page to page without any addition / alteration and shall be submitted with the Technical Bid. Any offer without this will be out rightly rejected.
7. Submission of GTP dully filled by bidder as per attached Schedule C for each of cables with technical bid. Any offer without this will be out rightly rejected.



GUJARAT STATE ELECTRICITY CORPORATION LIMITE

SECTION F: Schedule – B

GSECL

SCHEDULE - B**Description** : Supply of HT cable at GSECL, UTPS.**Reference No.** : ET – 5919**E-Urja RFQ No.** : 69702

Sr. No.	Description of materials with details of Specifications	Quantity Required	UOM	HSN Number	Unit Ex-Works Cost in ₹	Unit Freight, P&F charges in ₹	Unit Insurance Charges in ₹	Total Unit F.O.R. Destination Cost in ₹	GST in %	Unit GST with Cess if any, per unit in ₹	Unit End Cost with GST in ₹	Total Ex-works in ₹	Total F.O.R Cost in ₹	Total End Cost in ₹
1	ALLUMINIUM CABLE 1 CORE X 1000 MM2 H.T.	7	Kilometer											
2	ALLUMINIUM CABLE 3 COREx185 SqMM HT	4.2	Kilometer											
3	ALLUMINIUM CABLE 3 CORE X 240 MM2, XLPE 11 KV HT CABLE	1	Kilometer											
4	3CX50SQMM 11KV(E) GRADE HT XLPE INSULATED FIXED AL CABLE	100	Meter											
5	1CX50SQMM 11KV(E) GRADE HT XLPE INSULATED FIXED AL CABLE	100	Meter											
6	COPPER CABLE 1 CORE X 630 MM	1000	Meter											

Notes:

- (1) The party has to refer **Technical Bid** for Technical Specification of above mentioned item.
- (2) While filling-up various taxes through **On-line Price Bid**, the party has to mention the tax in Rupees instead of percentage.
- (3) TDS applicable as per GST Rules.
- (4) The new section 194Q (introduced vide the Finance Act, 2021) imposes requirement to deduct tax at source @ 0.1% on the purchase of goods subject to meeting the specified thresholds provided under the said section. Correspondingly, it is also provided that, where TDS under the above section 194Q is deductible and is so deducted, the tax collection at source (TCS) under section 206(1H) shall not be applicable to the seller on sale of goods.

Yours Faithfully,

Chief Engineer (Gen.)
GSECL, Ukai TPS.

(Signature of the Tenderer)
(With Company's Round Seal)