

Subject: Approval for SOW - Land Acquisition Consultant for CNG/LNG/LCNG Stations including all statutory permissions

Ref. Documents:

No Attachment



SCOPE OF WORK
CONSULTANCY SERVICES TO CARRY OUT LAND
IDENTIFICATION & ACQUISITION FOR THE
DEVELOPMENT OF CNG/LNG/LCNG STATIONS
INCLUDING ALL STATUTORY PERMISSIONS

Document No: GEL/TS/CIVIL/SERVICE/LAND IDENTIFICATION & ACQUISITION/SOW

00	-	Original Document	27.05.2026
REV. NO	CLAUSE NO.	REVISION DESCRIPTION	DATE OF ISSUE

1. INTRODUCTION

GUJARAT ENERGY LIMITED (GEL) erstwhile GUJARAT GAS LTD. (State Government undertaking) is having City Gas Distribution Networks for Distributing Natural Gas to Industrial/Commercial and Domestic Customers and CNG Stations across 41 districts in the state of Gujarat, Rajasthan, Madhya Pradesh, Haryana, Punjab, Maharashtra and Union Territory of Dadra & Nagar Haveli. GEL is committed to develop eco-friendly infrastructure and transportation fuel for public services in its operating areas as awarded by PNGRB from time to time.

GEL is expanding their CNG/LNG supply chain by setting up new Company Owned CNG/LNG/LCNG Stations at various locations across their operation areas in Gujarat, Maharashtra, UT of Dadra Nagar Haveli, Punjab, Haryana, Rajasthan and Madhya Pradesh states.

This document summarizes technical requirements and specifications for hiring of CONSULTANT to carry out IDENTIFICATION AND ACQUISITION OF LAND and obtaining all statutory permissions including but not limited to Grid Contour Survey, DILR measurement, Title clearance of land, Geo-Technical Investigation, Sale deed registration, News Paper Advertisement as per the requirement, , Mutation entry in revenue records, conversion of land in to Non-agricultural, Change of purpose in land usage, lay out approval, Construction approval, power connection, PESO approval, Factory license, District Magistrate/Police Commissioner NOC, Fire Department NOC, approach road permission from NHAI/MoRTH/PWD/other relevant authorities including forest permission, Consent to Establish & Consent to Operate from SPCB and other permissions from various authorities FOR DEVELOPMENT OF CNG /LNG/LCNG STATIONS.

This document covers various activities and/or combination of activities for carrying out IDENTIFICATION AND ACQUISITION OF LAND including all statutory permission for new areas as well as in existing operation areas of GEL.

2. DEFINITIONS

In the Bid / Contract (as hereinafter defined) the following words and expressions shall have the same meanings hereby assigned to them unless the context otherwise requires: -

- "CLIENT" or "COMPANY" shall mean M/s. **Gujarat Energy Ltd. (GEL) (erstwhile Gujarat Gas Ltd.)**, having its Registered Office at Gujarat Energy CNG Station, Section 5/C, Gandhinagar – 382 006, Gujarat, India

- “SELLER/BIDDER/CONSULTANT” shall mean the person, firm or COMPANY with whom PURCHASE ORDER/CONTRACT is placed / entered into by COMPANY for supply of equipment, materials and services. The term CONSULTANT includes its successors and assigns.
- “CONTRACT” shall mean Purchase Order (PO) / Contract and all attached exhibits and documents referred to therein and all terms and conditions thereof together with any subsequent modifications thereto.
- “DELIVERY” terms shall be interpreted as per INCOTERMS - 2013 in case of PO / Contract with a foreign Bidder and as the date of GR or as agreed, in the case of a PO / Contract with an Indian Bidder.
- “DRAWINGS” shall mean and include Engineering drawings, sketches showing plans, sections and elevations in relation to the PO/ Contract together with modifications and/or revisions thereto.
- “ENGINEER IN CHARGE” shall mean the Engineer or Executive-in-Charge of the Project SITE nominated by OWNER at SITE.
- “FINAL ACCEPTANCE” shall mean the Owner’s written acceptance of the Works performed under the PO / Contract after successful completion of performance and guarantee tests.
- “SITE” shall mean the Project or designated destination for which the Contract has been issued and where the equipment / materials shall be erected.
- “SPECIFICATIONS” shall mean and include schedules, details, description, statement of technical data, performance characteristics, standards (Indian as well as International) as applicable and specified in the Contract.
- The "BID" shall mean the Bid submitted by the CONTRACTOR for acceptance by COMPANY.
- "MOBILIZATION" shall mean establishment of sufficiently adequate infrastructure by the CONTRACTOR at site comprising of equipment, tools tackles including setting of

site offices camp with facilities such as power, water, communication etc., establishing manpower organization comprising of adequate strength of skilled, semi-skilled and unskilled workers, who with the so established infrastructure shall be in a position to commence execution of work at site (s), in accordance with the agreed time schedule of completion of work. MOBILIZATION shall be considered to have been achieved, if the CONTRACTOR is able to establish infrastructure as indicated above to commence work at all site (s)/ locations as per time schedule, where so warranted in accordance with agreed schedule of work implementation to the satisfaction of owner/ engineer – in-charge.

- “HSE” means Health, Safety & Environment.

3. DETAILS OF SERVICES

Purchase/Leased of Land for development of CNG/LNG/LCNG STATIONS and all related permissions within statutory bodies/state or UT Industrial Development Corporation/Private Premises

4. CONSULTANT SCOPE OF WORK

The specifications / scope of work / detailed scope of work mentioned hereafter is provided for the purpose of bringing clarity only and in no way intends to limit the basic purpose of this work contract as outlined in clause of the work contract.

While all care has been taken to make it exhaustive and simple, it is expected that CONSULTANT shall review the same and sought any clarifications / clarity regarding the scope before acceptance of the same. It is CONSULTANT’s responsibility to clarify any non-clarity, ambiguity, inclusion or deletion in the scope of work before acceptance of the work contract. On Acceptance of the work contract it would be presumed that the CONSULTANT has gone through this and has no further clarifications are required as far as the scope of work is concerned.

5. GENERAL

All statutory fees, legal fees and court fees for documentation / registration and stamp duty shall be borne by COMPANY. However, cost of stamp paper up to Rs. 1000/- per permission proposal for signing agreement with permission authority, legal fees &

professional fees for the litigation against the Consultancy shall be borne by the CONSULTANT.

All agreements with third parties shall be signed by COMPANY and CONSULTANT shall sign as confirming party or witness.

In event of the termination of the contract at any time before completion of the work / project, the CONSULTANT shall handover the records of work done to the COMPANY and it shall be the property of the COMPANY.

List of submittals to be specified in scope of work. Original of all documents should be retained by CONSULTANT and to be submitted on completion of the project or as and when demanded by the COMAPANY.

6. Purchase of Land For CNG/LNG/LCNG STATIONS and associated Facilities

- 6.1** Under this contract CONSULTANT shall provide service of acquisition/purchase of suitable land for the proposed CNG/LNG/LCNG STATION in line with the requirement communicated to CONSULTANT from time to time.
- 6.2** Company will publish the paper advertisement for purchase of private land for the proposed area. In such cases, Consultant shall prepare draft advertisement, Technical/commercial bid paper in consultation with Company official. After publishing the advertisement in newspaper/s, Consultant will prepare the list of prospect survey numbers and their land owners in the vicinity of proposed location (within 500 MT to 1 KM in consultation with concerned official of Company. Consultant shall ensure the publicity of advertisement in the vicinity of proposed location and distribute the newspaper cuttings and if required provide information/education for bidding for sale of land.
- 6.3** If required, CONSULTANT will be required to search for the suitable and title cleared lands which should be free from all encumbrances and submit the details of such lands along with various options in the vicinity of the area as suggested by the COMPANY.
- 6.4** If required, Consultant shall provide minimum three suitable alternative of land/plot and submit the detailed due diligence report with recommendation of best suitable land with

amount for all alternatives along with techno-commercial comparison, merits and demerits of land/ plots.

- 6.5** Submit the details of the lands along with the revenue records and consent from the land owners to COMPANY for confirmation of the correctness of the same. Submission of the Jantri or equivalent rates of the area and prevailing market rate with justification.
- 6.6** Verifications of the title of the lands and submission of the Title Clearance Certificate from the Advocate, including giving the advertisement in the local newspaper, as may be required.
- 6.7** Collection of the all-missing revenue records etc. required for / asked by the COMPANY for establishing ownership and title of the land.
- 6.8** Co-ordination and communication including all required visit of the site / location with the COMPANY officials and officials of Government and other authorities.
- 6.9** After receipt of the approval from COMPANY, to assist negotiation with land owner as per the prevailing process of the COMPANY.
- 6.10** Prepare suitable and required all such legal documents, viz. Karar Patra, Bana Khat, Sale Deed, Lease deed, Affidavits, etc. to be executed by and between the COMPANY and the land owner. Submit drafts of the said legal documents for review of COMPANY.
- 6.11** Prepare and submit the details of the payments to be made to the land owner and to release/disburse the same to the land owner as per the approval of the COMPANY.
- 6.12** Intimate COMPANY for any disagreement by land owner and submit revised proposal with recommended action plan indicating various alternatives.
- 6.13** On receipt of the approval of revised proposal, to assist renegotiations with land owner and execute necessary legal documents for the purchase of the said plot of land.
- 6.14** Incorporate all changes as may be suggested by COMPANY. Prepare final legal documents required for the transfer/purchase/lease of the land. Execution of Legal Documents/Sale Deed/Lease deed etc.

6.15 Prepare and plan for the execution of the Sale Deed and to be registered at the office of the concerned Sub-registrar office, as per the prevailing laws and submit the same to COMPANY for the approval.

6.16 In Case of Private Land

The job includes identification of the suitable lands, carrying out necessary survey work, collection of revenue records, assisting negotiation with land owners, report submission comparing merits and de-merits of selected plots, assist in making payment to the private land owner after necessary / required procedure, preparation of sale/long lease deeds, entering into an agreement of Sale/long lease, Registration of the deeds, taking Possession of the land, and transfer of the land to Forest Department (if it purchased for compensatory afforestation) including suitability certificate for the said land. All necessary Drawings and approvals required to complete the job without any extra compensation. (Including all indirect costs but excluding cost like payment to land owners, DILR survey fee for measurement, premium payments to Govt., Cost of Stamp Duty, Registration Cost etc.)

6.17 In case of Government Land

The job includes identification of the land, Process of application to the respective authority, carrying out necessary revenue procedures as per relevant laws in the State/UT, assist in making payment to the Govt., obtaining land allotment order/ entering into an agreement of Sale Deed, Leased Deed, Registration of the Documents if required, Possession of the land, and transfer of the land to Forest Department including obtaining suitability certificate(if it purchased for compensatory afforestation) for the said land. All necessary Drawings and approvals required to complete the job without any extra compensation. (Including all indirect costs but excluding cost like payment to land owners, Payment to Government, DILR for measurement, Cost of Stamp Duty, Registration Cost, etc.)

6.18 Carry out co-ordination, liaison & follow-up with the local and State / UT Government Authorities as mentioned herein above for the permissions for Non-agricultural use OR change of purpose/use and for the construction thereon.

6.19 Mutation of correct COMPANY name in the revenue records such as 7/12, form no. 6, etc., after execution of the Sale Deed in favour of COMPANY by the land owner.

- 6.20** Carrying out topographical survey and contour survey with 3 meters interval of the plot of suggested / selected land/plot by the COMPANY and submission of drawing in latest version of AutoCAD format and KML file. For the detail scope of work, refer relevant clause of this document.
- 6.21** Consultant has to gather/search all the revenue records/ documents required for Title clearance of the land.
- 6.22** CONSULTANT will have to verify and submit all the documents/ legal documents along with the title clearance certificate obtained from the advocate at their own cost, of the land(s) selected by COMPANY.
- 6.23** All required clearances/permission for converting of agriculture land in to non-agricultural use of the land, through the procedures of obtaining clearances under section 63 AA of Bombay land tenancy Act, 1948 or equivalent laws prevailing in area (for the use of bonafide industrial) and then after obtaining certificate under section 65-KH of Land Revenue Code, 1879, (converting of agriculture land in to non-agriculture) for which necessary N.O.C. from PWD / State Electricity Board / Irrigation / Health dept. / (State) Industrial Development Corporation / Village Panchayat / Zilla Panchayat / office of Sub-District Magistrate as the case may be required by Collectorate.
- 6.24** On completion of entire process of the transfer/purchase of the land CONSULTANT should see that the COMPANY's name appears in the revenue records/Government Records such as Gram Panchayat, Collectorate, City Survey, Corporation, (State) Industrial Development Corporation etc. as the case may be, and submit the certified copies of the such entries/transfers, including 7/12 abstracts and entry in village form no. 6 (Hakk Patrak) and related revenue records.
- 6.25** Mutation of Non-agriculture status of the land after obtaining NA permission and submission of 7/12 with correct Company name with NA status of land.
- 6.26** Due care is to be taken for proper company name is mutated in revenue records, Orders of 63/AA & 65KH permissions and all revenue correspondence.

6.27 Also, Consultant will apply for lay out approvals for obtaining NA permission and Construction approval from competent revenue offices. For the detail scope of work, refer relevant clause of this document.

6.28 Consultant will also assist/ apply approvals for other ancillary infrastructures requirements of electricity, water, drainage, approach road from various authorities such as from Corporation / (State) Industrial Development Corporation / Collectorate / Panchayat / town planning / gram Panchayat / Zilla Panchayat / State Electricity Board / State Highways, SEZ and other roads, etc., as the case may be. For obtaining above permissions, consultant will appoint an architect, structural engineer and/or any specialize service provider at their own cost.

6.29 All the responsibility for the completion of job will be in the CONSULTANT scope.

6.30 Submission of all acquisition details:

On completion of the work the CONSULTANT without any additional cost shall make following submission.

- Detailed report for Land Identification
- Consent duly signed by the land owner.
- Revenue records collected for last 60 years of purchased land for title clearance, newspaper advertisement for title clearance and Title clearance certificate
- Registered deed/Karar Patra/Bana Khat/ Affidavits, signed by the land owner. Allotment order in case of government land.
- DILR measurement sheet before and after the purchase of land/plot.
- Village map showing the land.
- Original copy of the negotiation agreements made
- All the above documents are also to be submitted in original and in digital format (by scanning) in CD-ROM/Pen Drive to COMPANY.
- Special terms & conditions, other than General agreement, agreed between COMPANY & land owners during negotiation.
- All the revenue records duly mutated in the name of the company with complete correspondence file and orders.
- Layout approval with duly approved drawing in original and soft copy.
- Construction approval with duly approved drawing in original and soft copy.

7. LAY OUT APPROVAL FOR COMPANY OWNED LAND

7.1. Prepare & submit the application for Layout Plan approval to concerned authority

File No: GGL-Tech. Services-2026-5-180125

- 7.2.** Prepare layout drawing and plans as per GDCR/Prevailing norms of authority duly signed and stamped as required by the Town Planning Office
- 7.3.** To appoint registered/empaneled architect of the concerned authority. The fees for appointment of registered/empaneled architect shall be borne by consultant.
- 7.4.** To get the drawings signed & stamped by registered/empaneled architect of the authority as per the requirement
- 7.5.** Submission of documents in required number of sets to Town Panning office
- 7.6.** Obtain demand note of scrutiny fees as per the prevailing norms of authority as applicable and send to Company for payment
- 7.7.** Arrange site visit of junior town planner if required
- 7.8.** Make revision in the drawings as per the scrutiny of the town planner and resubmit the same to TP Office
- 7.9.** Obtain final approval

8. CONSTRUCTION APPORVAL/BUILDING PERMIT FOR COMPANY OWNED LAND

- 8.1.** Prepare & submit the application for Construction approval/Building permit to concerned authority for the Company owned land as per the requirement of COMPANY
- 8.2.** Prepare building permit drawings and plans as per GDCR/Prevailing norms of authority
- 8.3.** To appoint registered/empaneled architect of the concerned authority. The fees for appointment of registered/empaneled architect shall be bared by consultant.
- 8.4.** To get the drawings signed & stamped by registered/empaneled architect of the authority as per the requirement of the authority
- 8.5.** Submission of documents in required number of sets to concerned authority

- 8.6. Obtain demand note of scrutiny fees as per the prevailing norms of authority as applicable and send to Company for payment
- 8.7. Arrange site visit of concerned authority as per the requirement
- 8.8. Make revision in the drawings as per the scrutiny of the authority and resubmit the same to concerned authority
- 8.9. Obtain final Construction approval/Building permit
9. **DISTRICT MAGISTRATE / POLICE COMMISSIONER NOC FOR ESTABLISHMENT OF CNG/LNG/LCNG STATION FOR COMPANY OWNED LAND.**
- 9.1. Company will provide the approval from PESO (Petroleum & Explosives Safety Organization) along with PESO approved drawing.
- 9.2. Submission of application to District Magistrate/Police Commissioner and any other competent authority as prescribed by Government seeking No Objection Certificate for setting up of CNG/LNG/LCNG Station.
- 9.3. Collection of revenue/other related documents from any other agencies/govt. authorities as per the requirement of department/authorities.
- 9.4. Submission of documents and/or drawings in required number of sets as required by authority.
- 9.5. Timely submission of queries raised by statutory bodies/departments.
- 9.6. Follow up and obtain NOC's from all the departments as required by District Magistrate/Police Commissioner and any other competent authority.
- 9.7. The scope of work shall include appointment of any architect/engineer/any other specialized person as per the statutory norms for getting the NOC.
- 9.8. Obtain District Magistrate's/Police Commissioner's NOC as per the prevailing norms of PESO along with duly approved drawings.

- 9.9.** Handover of DM / Police commissioner NOC in 2 sets (One original + One Notarized) and in Soft copy (PDF format) after obtaining No Objection Certificate.
- 10. TOPOGRAPHICAL/CONTOUR SURVEY, HANDING OVER THE POSSESSION AND STONE MARKING OF PURCHASED LAND**
- 10.1.** Agency shall carry-out topographical survey of the area including nearest asphalted road/approach road like spot levelling in the intervals of 3 metre for plotting contours, dimensions of the plot, verification of dimensions with govt. records, encroachments if any, fixing the boundary pillars of the plot and provide DGPS coordinates for all the corners of the plot/Land.
- 10.2.** Survey of underground and above ground utilities.
- 10.3.** To provide data for High flood level (HFL).
- 10.4.** The tentative boundaries of the area to be surveyed are marked in the respective village revenue maps.
- 10.5.** All survey points and permanent pillars shall be constructed in PCC M-15 grade as directed by COMPANY/Client's representative.
- 10.6.** Stone Markers are installed at each and every corner of purchased land. Stone Markers are pre-cast, reinforced concrete or stone markers of dimensions 150 x 200 x 750 mm deep shall be buried at 500 mm depths. Markers shall have smooth finish and be painted with durable emulsion paint in 'Post Office' red colour.
- 10.7.** True North, Magnetic North and angle between them for each location has to be identified using suitable approved methods and indicated in the drawings.
- 10.8.** Wind velocity prevailing at the site shall be measured and wind-rose diagram shall be plotted in the drawing.
- 10.9.** Ground Levels shall be shown on rectangular grid pattern as specified. Additional level to show sudden change of levels shall also be indicated.
- 10.10.** Invert levels of existing drains at regular intervals shall be taken. Top Levels of Manholes shall also be taken.

10.11. Also, the nearest drain/Storm Water drain at the proximity to site shall be located for connecting the plant treated discharge.

10.12. Handover the possession of purchased land to the Company representative at Site to initiate the construction activities.

10.13. Submit topographical surveyed map incorporating all suggestion given by company with 3 meters interval contour in Hard copy as well as in AutoCAD format as specified above in latest version and KML file of the land.

11. SOIL INVESTIGATION OF PURCHASED LAND

11.1. A minimum 10-meter depth (or up to refusal) with collecting of soil samples, SPT and water level measurement is to be performed. Two boreholes are required. The location of bore hole is to be finalized with Company and to be shown in the Topographical/contour drawing of plot. Thereafter, laboratory tests are to be done on selected soil samples.

11.2. In- situ geotechnical work execution technique

✓ **WORK SCHEDULE**

The program of the works must comply with the site availability.

✓ **SETTING UP OF THE IN- SITU TESTS**

- The CONSULTANT shall be provided with the location of the in-situ tests. He must set up the tests at site, after locating the position of the boreholes accurately.
- If the location, azimuth or inclination of any drill holes or in- situ tests does not confirm to the given indication, such holes shall be executed anew at the CONSULTANT's expenses.
- After completion of the work, the CONSULTANT shall provide a map with the location of in - situ tests "as built".
- CONSULTANT should check for the presence of underground services prior to commencing of drilling or trial excavations and will validate and confirm that no underground services are at risk of being damaged or disturbed in any way.
- In case specifications give under are insufficient, the test and works shall comply with relevant Indian Standard Specifications, wherever applicable.
- CONSULTANT is responsible for supplying the work site in due time with all material required for smooth and timely execution of work.

✓ **EXECUTION OF THE BORE-HOLES WITH SPT**

- Boreholes of 110 mm to 150 mm internal diameter shall be sunk to the required depth with Shell and auger equipment through sand, silt and clay, but excluding rocks, pebbles or grabbers.
- The methods and machinery must, in all cases, tend to mark the levels and confirm the nature of the crossed layers.
- If one of the crossed layers causes landslide or soil instability, the drilling hole is to be protected by any efficient means, provided the subjacent soil is not contaminated. Bentonite slurry can be used in case of cohesionless soils.
- The drilling machine is to be steered by a chief drilling operator with the help of at least one experienced workman.
- The method of drilling is the responsibility of the CONSULTANT. This method must permit to collect samples for identification and description of the crossed layers and to perform SPT. The CONSULTANT shall propose his method before starting the works.
- The drilling is to be vertical.
- In the boreholes SPT will be performed. Mode of operation is explained in this specification.
- During the drilling operation, all incidents are to be recorded, and in particular the losses of water, with estimates of flow and volume, possible caverns, rising of water level, alteration in type and colours of mud, etc.
- The boreholes shall be cased throughout the depth of boring.
- Boreholes shall be cleaned properly before conducting any in-situ test or taking out undisturbed samples.
- After the tests are conducted, the boreholes shall be filled with sand.

✓ **DESCRIPTION OF THE BORE LOG**

- Levels survey
 During the drilling, the levels of separation of the different layers and the upper and lower levels of the possible caverns are to be recorded in relation to the level of topsoil. The location of the water table is to be determined. The dates and hours corresponding, to the end of the perforation and to the recording of levels as well as the losses of water observed during the drilling are to be noted.
- Soil Identification

As drilling progresses, the extracted soil shall be carefully preserved to enable its identification. However, the following information must be noted immediately:

- Sampling level,
- Temporary name given to the soil by the driller,
- Colour and odour,
- Soil consistency,
- Recuperation.



DOCUMENTS TO BE SUPPLIED BY THE CONSULTANT

- At each time, the CONSULTANT shall fill in a report giving details on the work executed, describing difficulties and methods used, the description of machinery, the precise depth of each operation, etc.

- In addition, two weeks after the completion of boring which is covered by the contract, the CONSULTANT hands over a provisional report in two copies including a drilling log, and in particular:
 - i. The reference number of the bore-hole
 - ii. The location marked on a map to a convenient scale together with the X, Y and Z co-ordinates of the bore-hole
 - iii. The point level from which depths are measured
 - iv. The diameter of the bore-holes
 - v. The recuperation
 - vi. All observations and incidence noted by the operator concerning the boring operation
 - vii. The equipment in use and the process for drawing samples
 - viii. The levels of water at the start and at the end of each shift
 - ix. The date at which the boring starts and ends, together with a graph showing progress and effective preparation speeds
 - x. The depths at each operation
 - xi. The reports on special tests or sampling with the numbers of the samples extracted and their position
 - xii. The sectional drawing of the bore-hole with references and symbolic representations of the nature of the crossed soils
 - xiii. A global report shall collect all the results and data from the various daily reports, from the drilling logs, etc.

- Five copies of this global report shall be submitted two weeks after completion of the in-situ works.

- The CONSULTANT shall also submit over a reproducible original of all the maps, drilling maps, etc., which are part of his daily report and of the global report.

✓ **STANDARD PENETRATION TESTS IN THE BOREHOLES**


- Mode of operation: Standard Penetration Tests shall be carried out during the boring in accordance with IS 2131 (latest). The depth of each test shall be correctly determined. In the event that the penetration resistance "N", determined in a test, is less than 5, the Engineer may require to clean out the borehole and to carry out another test immediately afterwards. Small-disturbed samples removed from the Standard Penetration Test split spoon sampler shall be taken in accordance with IS 2132 (latest). The Standard equipment with split spoon sampler in soil or solid cone in hard soil with 63.5 kg hammer with a free fall of 750 mm shall be used.
- Unless otherwise instructed a Standard Penetration Test (SPT) shall be carried out every 0.5m in the upper soft layers and at 1.0 m interval in the bottom layers.
- Documents to be supplied by the CONSULTANT
- The information on the Standard Penetration Test to be submitted by the CONSULTANT consists of the following:
 - i. Penetration resistance (N blows/300 mm) or the Penetration (mm) for 50 blows. The procedure of testing and determination of N value shall be as per IS: 2131 (latest).
 - ii. Depths (m) between which penetrations resistance is measured.
 - iii. Depth of casing and size at time of test.
 - iv. Before start of test depth SPT tools sunk under own weight from base of borehole.
 - v. Number of blows for each 75 mm of Penetration including seating blows.
 - vi. Type of equipment
 - vii. Weight of hammer.
 - viii. Height of drop.
 - ix. Method of release.
 - x. Use of drilling mud or casing.

- Disturbed samples resulting from SPT shall be taken for classification purposes. They shall be placed immediately in an airtight, non-corrodible and durable container, which the sample will fill with a minimum of air space. The undisturbed samples shall be taken at intervals of 2 m or at change of stratum whichever occurs earlier. The samples shall be minimum 100 mm dia and 450 mm long.



DOCUMENT AND REPORT

- At the end of the investigation and on completion of all the tests, the CONSULTANT shall submit a report consisting of the following documents and recommendations.
 - i. Plan showing the location of the boreholes with co-ordinates as executed.
 - ii. All field records namely the bore-log, details of samples taken, records of all in-situ and laboratory test profiles, classification of soil stratum, and any other significant details which might be found out during investigation.
 - iii. All computations leading to the logical conclusion of bearing capacities of soil, safe capacity of piles etc. shall be included in report. If references are drawn from standard test books, such references shall be clearly indicated.
 - iv. The report shall contain recommendation about: -
 - a) The safe net bearing capacity of soil for isolated / strip footings and proposed depth of footings, starting from bottom level.
 - b) The safe net bearing capacity of soil for mat/ raft foundations at basement level.
 - c) Estimated lengths, and capacities of piles of various diameters specially 230 mm dia pile for boundary wall, if recommended.
 - d) For design of retaining walls, recommendations shall be made as to the layer of excavated Design parameters like coefficient of earth pressure at rest shall be recommended.
 - e) Safe bearing capacity of soil for temporary structures and structures of secondary importance shall be included.
 - f) Water table in each bore hole.

 GUJARAT ENERGY	SOW - SCOPE OF WORK CONSULTANCY SERVICES TO CARRY OUT LAND IDENTIFICATION & ACQUISITION FOR THE DEVELOPMENT OF CNG/LNG/LCNG STATIONS INCLUDING ALL STATUTORY PERMISSIONS	Page 18 of 35
--	---	---------------

g) Max. Water table to be adopted for design of foundations.

✓ **LABORATORY TEST ON SELECTED SOIL SAMPLES**

- The following tests shall be performed on the selected soil samples (according to IS 2720) and water samples collected.
 - i. Atterberg Limits: - Liquid limit + plastic limit shall be required for U.D. samples
 - ii. Natural Moisture: - shall be required for U.D. samples.
 - iii. Particle size analysis: Sieve & hydrometer analysis on at least one sample from each stratum shall be required.
 - iv. Wet & Dry Density: for U.D. samples.
 - v. SP Gravity: For one sample from each stratum.
 - vi. Unconfined compression Test: To be conducted at site on about 25% of U.D. Samples.
 - vii. Triaxial Tests: Un-drained quick tests shall be done on UD samples available at Laboratory.
 - viii. Consolidation Tests: on U.D. samples taken at least one from each stratum shall be conducted for a range of pressure from 2.7 t/sq. m to 8.6 t/sq. m.
 - ix. Chemical Tests: Sulphate- & chloride contents of water samples.
 - x. Sulphate, carbonate, chloride and organic matter, content of soil samples.
- A global report including all the preliminary test reports shall be provided to the ENGINEER. This report must be reproducible and supplied in 3 copies.

12. APPROACH ROAD PERMISSION FROM CONCERNED AUTHORITY

- 12.1.** Identify the concerned road authority. If it is National Highway Authority of India or National Highway division's road apply the permission as per the MORT&H norms and if other than that, apply to concerned State Govt. authority as per their norms. If Road Side Social Forest or Protected Forest permission is required then the same will be applied and secure as per agreed time line.

- 12.2.** Understand the permission requirement, verify the applicable authority and if require clarify with COMPANY and seek further details if any related to company which deems necessary for the application and confirm within two (2) working days that process is initiated.
- 12.3.** It shall be deemed that the CONSULTANT is well acquainted with the nature of work and implications involved in performing the above activities including collection of the required input data from the concerned offices. The price offer of the agencies against this work shall be inclusive of all the expenses to be incurred by them for all the contingencies involved in delivering and discharging the scope of work.
- 12.4.** Collection of application format for approval / permission, required data / details for application from respective State / Central/local Authorities and other utility company.
- 12.5.** Prepare the detail drawing or any relevant drawing required for application to particular authority and submit along with the draft application to COMPANY for the review and approval within 20 (Twenty) days of job intimation.
- 12.6.** Submit the applicable rules along with draft copy of the sample agreement, flow chart for process of permission, name, address & contact no of all statutory authorities, refundable / non-refundable fees & rent (along with supporting documents) and confirm that applicable permission will be obtained within agreed service level time line to COMPANY.
- 12.7.** Incorporate all recommendations suggested by COMPANY in the final application letter and prepare final application letter for signing of the COMPANY'S authority within two working days.
- 12.8.** On signing of the application by the COMPANY submit application to the concerned authorities, collect & submit acknowledgement of the receipt within 2 (Two) working days.
- 12.9.** Co-ordination, liaison and follow up with authorities on regular basis, Prepare & submit follow-up letters for the permissions.
- 12.10.** Collect required details from authority for payment like PAN, GST, Bank details, invoice, office address, payment to be made in favour of, mode of payment, undertaking in case TDS is not applicable etc. if not collected earlier.

- 12.11.** Collect/secure the permission letter and demand note from respective authority and forward the soft and hard copy of permission and other document to the COMPANY. Demand note and terms and condition of the permission to be checked vis a viz latest General resolution, circular notification of the related authority and/or prevailing norms, practice and deviation/variance if any shall be get corrected from the authority. Follow up and assist in removing / diluting of one or more unduly stated harsh conditions from the permission / agreement which are not of statutory nature.
- 12.12.** COMPANY shall provide necessary letters to the State Govt. /Central Govt. / any other authorities as and when necessary. Necessary technical details of the pipeline for making the applications shall be provided by the COMPANY.
- 12.13.** Any statutory and license fees applicable will be paid / reimbursed by the COMPANY on production of original demand note documentary evidence from the concerned authorities.
- 12.14.** Demand note and/or permission letter with recommendation letter showing all details of demand, all details for payment and justification for payment to be submitted to company.
- 12.15.** Prepare draft agreement in coordination with authority, submit it to COMPANY with details in case any deviation from prevailing practice with justification. Prepare and submit Final Agreement for permissions upon receiving confirmation and payment from the COMPANY.
- 12.16.** On receipt of the payment and signed agreement, submit the same to the concerned authority and collect duly signed agreement from the authority. On receipt of the agreement forward the copy of the same to the COMPANY.
- 12.17.** Collect payment receipts and/or GST invoices and/or any other documents as per prevailing norms as per requirement of the COMPANY from the authorities and forward the copy of the same to the COMPANY.
- 12.18.** Taking Permissions / NOC from the authorities and subsequent submission to COMPANY.

12.19. Submit complete file with copy of application letter with attachment and all the original documents / payment receipts / challan/ permission / agreements with summary in hard and soft copies in desire format to the COMPANY.

12.20. Carry out required liaison with the authorities during construction work including arranging site visit and meeting required with authority for clarification/resolution of issue/queries related to the permission.


12.21. Prepare and submit the status report of assigned permission from different authority and other utility companies, type of payment made towards individual permission and total for assignment/project, in the format and frequency decided by COMPANY.

13. ANNEXURES

- Annexure-01: SOW for ELECTRICAL CONNECTION AND SHIFTING OF OVERHEAD LINE
- Annexure-02: SOW for PESO Consultancy for CNG/LNG/LCNG Stations
- Annexure-03: SOW for SPCB Consultancy for Permissions (CTE and CTO) for CNG/LNG/LCNG Stations
- Annexure-04: SOW for Consultancy to obtain Factory Licenses for CNG/LNG/LCNG Stations

Annexure – 01

SCOPE OF WORK
FOR
ELECTRICAL CONNECTION AND SHIFTING OF OVERHEAD LINE

 GUJARAT ENERGY	SOW - SCOPE OF WORK CONSULTANCY SERVICES TO CARRY OUT LAND IDENTIFICATION & ACQUISITION FOR THE DEVELOPMENT OF CNG/LNG/LCNG STATIONS INCLUDING ALL STATUTORY PERMISSIONS	Page 23 of 35
--	---	---------------

1. HT/LT Power Connection Procurement

The consultant shall provide end-to-end liaisoning and coordination services for obtaining HT/LT power connections with respective DISCOM for CNG/LNG/LCNG stations across GEL operational area. The scope includes but not limited to:

- Preparation and submission of applications to the concerned Electricity Board (EB) / power distribution company
- Preparation of required electrical drawings and documentation as per authority requirements
- Coordination for approval of drawings from relevant authorities
- Liaisoning with DISCOM officials and the Electrical Inspector for necessary approvals
- Arranging and coordinating site inspections/visits by officials
- Regular follow-ups with authorities to ensure approvals within the targeted time frame
- Addressing queries, clarifications, and compliance requirements raised by authorities
- Managing all related liaison activities, local coordination, and conveyance including site visits, lodging, boarding.
- Any additional coordination required to facilitate timely release of power connection

Exclusions:

- Statutory fees, government charges, and official payments to authorities are excluded from this scope.

2. Rerouting / Shifting of LT/HT Overhead Electrical Lines

The consultant shall provide liaisoning and coordination services for rerouting or shifting of existing LT/HT overhead electrical lines passing through the CNG/LNG/LCNG station plot area. The Scope includes:

- Preparation and submission of applications for line shifting/rerouting
- Liaisoning with concerned authorities and departments
- Continuous follow-ups to expedite approvals and execution
- Handling queries, providing clarifications, and attending meetings with officials
- Coordination and participation in joint site visits with Electricity Boards/authority representatives
- Ensuring completion of the rerouting work through proper coordination with stakeholders

- All conveyance including site visits, lodging, boarding.

Exclusions:

- Statutory fees, government charges, and official payments to authorities are excluded from this scope.

3. Client Responsibilities (GEL)

- Provide electrical load details/load sheet for HT/LT connection based on CNG/LNG/LCNG station configuration
- Review and sign off on all documents/applications prior to submission to authorities
- Ensure timely availability of required inputs and approvals for smooth processing

4. Commercial & Statutory Exclusions

- All statutory fees, government charges, and payments to electricity boards or other authorities shall be borne and paid directly by GEL
- Any third-party execution costs (if applicable) are not included unless explicitly specified

5. General Notes

- Services are limited to Liaisoning, documentation, and coordination support only.
- Approval timelines are subject to the policies and procedures of respective state electricity authorities.

Annexure – 02

SCOPE OF WORK
FOR
PESO Consultancy for CNG/LNG/LCNG Stations

1. BIDDERS/CONTRACTORS SCOPE OF WORK

- 1.1. Bidder shall submit the required list of documents/ drawings etc. for case to case. Bidder shall collect the required set of documents along with covering letter and submit all documents needed for PESO application to PESO office for issuance of PESO approval/ license/ amendment/ renewal and obtain receipt of acceptance of the same from PESO office. This receipt of acceptance to be submit in GEL office.
- 1.2. Bidder shall submit online application to concerned PESO office and submit the hard copy of covering letter, Form-C LS-1A/C, Online application form, layouts, Rule – 33 Certification as per SMPV Rules etc. to GEL EIC for signing purpose.
- 1.3. Prepare documents as per format required for submission in PESO online portal and upload documents for application of PESO permission. Relevant information/ documents shall be provided by GEL. However, consultant needs to ensure application as per format required by PESO.
- 1.4. Keep regular follow ups with PESO office (as applicable) for obtaining approval/ license/ renewal/ amendment etc.
- 1.5. Intimate GEL if any query is raised by PESO office (as applicable) along with required details and resubmit it with reply provided by GEL
- 1.6. Confirm availability of PESO officer at PESO office (as applicable) prior to make visit at PESO office along with GEL EIC.
- 1.7. Submit any other documents required by PESO office for approval/ license/ amendment/ renewal and obtain receipt of acceptance of the same from PESO office
- 1.8. Bidder to check status update for all on-going application at regular frequency & provide status update of the same to GEL EIC on fortnightly basis. Any change in application status to be intimated and details required by GEL to be provided on immediate basis.
- 1.9. Bidder shall make his own arrangements to provide all facilities like traveling, lodging, accommodation / boarding, transportation, office expenses, courier charge, packing & forwarding charge etc.
- 1.10. Coordinate and arrange the concerned PESO officer (CCOE Inspector) site visit at site and inform the site visit plan to GEL EIC. Bidder representative shall be present at site during the PESO officer (CCOE Inspector) site visit.
- 1.11. Bidder shall arrange a vehicle on request of GEL to facilitate PESO visit. GEL will pay upto 0-300 km/ day as per SOR line item. In case of transportation is greater than 300 Kms. /day, bidder shall claim extra running kilometer charges. Bidder shall submit the invoice along with documentary evidence to claim travelling charges. Vehicle should be SUV premium category such as Innova, Kia Carnival.
- 1.12. Ensure the availability of original copy issued from PESO office to GEL for all cases.
- 1.13. Printing of drawings/ documents etc. in the scope of bidder.

2. OWNER'S SCOPE OF SUPPLY

- 2.1. GEL shall provide the required documents, DD/ e-payment etc. of PESO license fee/ Scrutiny fee etc. required for PESO license of a Station.
- 2.2. GEL shall provide Pre-Requisite supporting Document (i.e. Details Specification of Cryo Equipment's/ Model/ Capacity etc.) for Rule-33 Certification. (If Required)
- 2.3. GEL shall provide Vehicle arrangement for CCOE Inspector to carry out inspection from PESO office to respective station. However, Bidder shall provide vehicle on the request of GEL.

Annexure – 03

SCOPE OF WORK
FOR
SPCB Consultancy for Permissions (CTE and CTO) for CNG/LNG/LCNG
Stations

1. Consultant Scope of Work:

1.1 Obtaining and/or amendment and/or renewal of Consent To Establish (CTE) & Consent to Operate (CTO) / Consolidated Consent & Authorization (CCA) & Consent Management:

- Consultant shall collect relevant data; documents and information required for the applications and Consultant shall carry out the site visit to cross verify the data and information to fulfil the requirement of applications to SPCB.
- Consultant shall prepare & obtain authorization / signature of GEL authorized person (s) on the application documents.
- Consultant shall complete the application process within 15 days of intimation (through either Email intimation or Hard copy) given by GEL representative
- Consultant shall submit the application to SPCB (online as well as in physical copy) within specified timeline and shall carry out full liaisoning with SPCB till obtaining of Consent and / or Authorization within specified timeline
- Bidder to check status update for all on-going application at regular frequency & provide status update of the same to GEL EIC at defined frequency. Any change in application status to be intimated and details required by GEL to be provided on immediate basis.
- Consultant shall intimate GEL if any query is raised by local RO office/SPCB head office within a day of query raised.
- Consultant shall prepare and submit query response to GEL for review and further after approval from GEL EIC Consultant shall submit query reply to SPCB online as well as physical copy as per requirement and also shall carry out full liaisoning with SPCB to address any query raised by SPCB.
- Consultant shall visit and provide clarification in person to the SPCB/CPCB/MOEF office in case the same is required by the authority or is asked for by GEL authorized representative
- Confirm availability of SPCB officer at concerned office prior to making visit at Local RO office or main SPCB office.
- Consultant shall make own arrangements for like traveling, lodging, accommodation/boarding, transportation, printing, office expenses, courier charge, packing & forwarding charge etc. at its own cost with no additional cost to GEL.
- Consultant is completely responsible including application, query resolution, liaisoning with SPCB authorities for obtaining new Consent to Establish, Consent to Operate and also all amendment, renewal Consent to Establish, Consent to Operate from SPCB

- Consultant shall keep regular follow-up with local RO office and Main SPCB office for obtaining new/ amendment/ renewal of Consent to Establish, Consent to Operate
- Post receipt of the consent / authorization, Consultant shall get amended errors / mistakes / inadequacy if any in the consent / authorization document obtained from the SPCB and also shall carry out full liaisoning with SPCB to address any query raised by SPCB.
- Consultant is responsible for keeping list of all current Consent to Establish, Consent to Operate updated with validity. Original existing list of current Consent to Establish, Consent to Operate will be provide by GEL at the start of contract.
- As per the above list, Consultant is responsible for initiating renewal application, preparing documents & submission to GEL for authorization, for all GEL Consent to Establish, Consent to Operate well in advance of their expiry, however the online renewal application should be done at least 90 days prior to expiry of the consent or as per specific SPCB rules for renewal application whichever is earlier.
- Any query and deviation raised by the SPCB on submitted report, Consultant shall provide justification / clarification to address the concern and resolve the issue if any. In case of any penalty or notice, Consultant shall be liable for the loss to GEL for the error, mistakes or incorrect data in the application.
- Preparation & Submission of all required Environment statements (all applicable forms as per defined SPCB/CPCB formats) within defined timeline (Hard copy as well soft copy) for further submission to SPCB.

1.2 General Terms & Conditions

- Consultant shall perform its works / Services in full accordance with the terms and conditions of the Contract and in compliance with all laws, by laws, ordinances, regulation etc.
- Consultant shall not assign SUB-CONTRACT for any or part of the job assigned by GEL without prior written permission of GEL.
- Consultant shall provide all materials, equipment, instrument, tools or other things of whatsoever nature required in or about the execution of the work, whether of a temporary or permanent nature
- All persons engaged by the Consultant shall be Consultant's own employee and will claim no privileges from OWNER on any circumstance.

2. GEL SCOPE OF WORK

- ### **2.1**
- GEL shall provide Job order (Email intimation/Hard copy) for job to be performed under Consultant's scope of work

- 2.2** GEL shall provide project related information / data required for the assigned job to the Consultant
- 2.3** GEL shall provide certificate of Chartered Accountant for the approved project plan & Project cost
- 2.4** Pollution Control Board Fees for these applications – CTE/CTO/CC&A Fresh or amendment or Renewal shall be paid by GEL directly. In case on written (letter/email) instruction of EIC if the payment is done by Consultant, GEL will reimburse that amount to Consultant based on receipt of payment.

Annexure – 04

SCOPE OF WORK
FOR
Consultancy to obtain Factory Licenses for CNG/LNG/LCNG Stations

A. SCOPE OF WORK

The brief scope of work shall be as under but not limited to: -

1. To prepare detailed application with requisite list of documents for plan/layout approval, stability certificate and to obtain factory license as per prescribed format under the Act/State Rules framed thereunder, and also the consultant shall have to fulfil all formalities, if application is to be made online on portal.
2. To co-ordinate with GEL team with a list of documents required in the application for getting factory license.
3. To prepare plan/layout & necessary drawings/files as per the Factories Act, 1948 & the prescribed State rules framed thereunder & to get it approved from the concerned authority.
4. To submit the final application with relevant documents to the concern authorities and provide an acknowledgement copy to GEL for records.
5. To provide fresh Stability certificate in the prescribed form issued by competent person and to submit it in the concerned office and ensure its renewal from time to time.
6. To carry out Site visit inspection, third party audit, testing & data collection for plan approval/stability certificate by the competent person and suggest areas of implementation as per State Rules/Requirement.
7. Liaison with concerned factory offices to resolve queries raised by the authorities during periodic inspections / visits and to submit the compliance report with respect to the observations as & when required.
8. To make the payment of fees required for the new license or renewal & submit the treasury payment challans for fees paid by consultant to GEL for reimbursement.
9. To complete all the relevant formalities till receipt of the new factory license and to provide approved plans/drawings, Stability certificate and Factory license in original to GEL.
10. To co-ordinate & assist GEL during statutory inspections conducted by the authority & compliance thereunder, as & when required.

Note:

1. License fees for the license shall be reimbursed / paid by GEL as applicable, which shall be paid through Bank or online fees payment.
2. Quoted rates should be including of all Travel, Accommodation, Typing, processing of application through online portal, resolving the queries of authorities, liaising, documentation & all other charges to be included which are associated with the assignment.
3. Taxes shall be extra, as applicable.