

प्रोजेक्ट्स एण्ड डेवलपमेंट इन्डिया लिमिटेड PROJECTS & DEVELOPMENT INDIA LIMITED (A GOVT. OF INDIA UNDERTAKING) CIN NO.:U74140UP1978GOI028629

SHEET 1 of 1

PDIL BHAWAN, SAMTA, SUBHANPURA, VADODARA-390 023, INDIA. **PHONE**: EPBAX-2388418, 19, 20, 21, **TELEFAX** : 91(O265) 2388398, 99 E-MAIL:<u>pdilwro@wro.pdilin.com</u>

नेविदा सूचना (TENDER NOTICE)

निविदा संख्या/Tender No.: PVMM/Scarv/S/21-22/E-26/101265

प्रकाशन तारिख/ Date of issue: 11.03.2022

सेवा में/ To,

इच्छुक बोलीदाता / INTERESTED BIDDERS

विषय / Sub.: Engagement of agency for Geotechnical / Soil Investigation Work for Construction of Grass Root Pol CUF (Common User Facilities Depot at , Bajalta Jammu J&K.

महोदय/महोदया /Dear Sir/Madam,

पीडीआईएल, वडोदरा, गुजरात, निविदा दो बोलिया ∕ार्पार्ट(पार्ट-I टेक्नो-कमर्शियल बिड और पार्ट-II प्राइस बिड) में आमंत्रित करते हैं, जिसमे केवल घरेलू बोलीदाताओं से राष्ट्रीय प्रतिस्पर्धी बोली के तहत आमंत्रित किया गया है, निम्नलिखित के लिए :

We, PDIL, Vadodara, Gujarat, invites Tenders in Two Bids (Part-I Techno-Commercial Bid and Part II Price Bid) from the Domestic Bidders only for the following under National Competitive Bidding:

SL.	DESCRIPTION OF JOBS/SERVICES	TENTATIVE
		QUANTITY
1.0	Engagement of agency for Geotechnical / Soil Investigation work for Proposed Grass Root POL CUF (Common User Facilities) Depot at Bajalta Jammu (J & K) as per the attached Scope of Work Doc No. PC00192-SOW-0201, Rev.0 Dt. 08.03.22 and Technical Enquiry Specification Doc No. PC00192-TS-0201, Rev.0 dt.08.03.2022 and Commercial Terms & Conditions mentioned at Annexure-IIIB & IIIC.	As Per attached Scope of Work

- टिप्पणी: इस निविदा के संबंध में कोई भी परिशिष्ट / कोरिगेंडम / बोली समापन विस्तार तिथि, केवल हमारी वेबसाइट <u>https://pdilin.co.in</u> और सीपीपी पोर्टल <u>https://eprocure.gov.in</u> पर जारी किया जाएगा । इसलिए बोलीदाताओं से अनुरोध है कि वे नियमित रूप से हमारी वेबसाइट पर जाएँ ताकि वे ख़ुद को अपडेट रखें।
- **Note:** Any Addendum/Corrigendum/Bid Closing due date extension in respect of this tender shall be issued on our website: <u>https://pdilin.co.in</u> & <u>https://eprocure.gov.in</u> on CPP Portal only. Bidders are therefore requested to regularly visit our website to keep themselves updated.

कृपया निविदा (आईटीबी) दस्तावेज में दिये गये संबंधित विवरण जैसे कि विशेष ⁄महत्वपूर्ण तिथिया, निविदा के लिए निर्देश, कार्य व्यापकता और नियम और स्थिति का दायरा ईत्यादि को ध्यान पुर्वक पडे और उसि अनुसार निविदा मे भाग ले ।

Please refer tender documents (ITB) for particulars pertaining to the critical dates, instruction for Bidding, scope of Work and Terms & Condition.

प्रोजेक्ट्स एंड डेवलपमेंट इंडिया लिमिटेड, निविदा या संबंधित दस्तावेजों को प्राप्त करने में किसी भी देरी के लिए जिम्मेदार नहीं होगा।

Projects & Development India Limited, will not be responsible for any delay in receiving tender or related documents

for and on behalf of प्रोजेक्ट्स एंड डेवलपमेंट इंडिया लिमिटेड PROJECTS & DEVELOPMENT,INDIA LIMITED

ad आर.आई. उपाध्याय **R I Upadhyay**

अपर महाप्रबंधक(नागरिकी) एवं विभागाध्यक्ष (सा.प्र.) / Addl.GM (Civil) & HOD (MM)



PROJECTS & DEVELOPMENT INDIA LIMITED (A GOVT. OF INDIA UNDERTAKING)

SHEET 1 of 1

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(OPEN DOMESTIC TENDER)

	ITB NO. : PVMM/Service/21-22/E-26/101265						
	TYPE OF BID (For submission of bids please refer ITB Clause No.2.0 of Annexure-II)	TWO BID SYSTEM					
Published in CPP	TYPE OF OPENING	PUBLIC					
e-Publishing Portal	BID ISSUE DATE	11.03.2022					
(E-Tender ID	BID CLOSING DATE & TIME	21.03.2022 (15.00 Hrs.)					
2022_PDIL_678392_1) &	UNPRICED TECHNO-COMMERCIAL BID OPENING DATE & TIME	22.03.2022 (16.00 Hrs.)					
Hosted at PDIL	PRICE BID OPENING DATE & TIME	To be intimated later.					
Website	VENUE OF BID OPENING	PDIL, Vadodara					
	EARNEST MONEY DEPOSIT (EMD)	Rs.13,000/- (Rupees Thirteen Thousand Only).					
	CONTRACT PERIOD :	Upto 31 st July 2022.					

1.0 **PROJECTS & DEVELOPMENT INDIA LTD.,** a company registered under the Companies Act, 1956 having its registered offices at PDIL Bhavan, A-14, Sector-1, Noida-201 301, India (hereinafter referred to as PDIL or OWNER), a Govt. of India Undertaking under the administrative control of the Dept. Of Fertilizers, Ministry of Chemicals & Fertilizers. We, PDIL, Vadodara, Gujarat invites sealed bids in two parts under National Competitive Bidding, addressed to HOD (MM), for the under mentioned item subject to the 'Scope of Work' and 'Term & Conditions' enclosed herein.

SL.	DESCRIPTION OF JOBS/SERVICES	QUANTITY
	Engagement of agency for Geotechnical / Soil Investigation work for	
1	Proposed Grass Root POL CUF (Common User Facilities) Depot at	
	Bajalta Jammu (J & K) as per the attached Scope of Work Doc No.	As Per attached
	PC00192-SOW-0201, Rev.0 Dt. 08.03.22 and Technical Enguiry	Scope of Work
	Specification No. PC00192-TS-0201, Rev.0 dt.08.03.2022 and Commercial	
	Terms & Conditions mentioned at Annexure-IIIB & IIIC.	

2.0 The following enclosed documents are the part of ITB.

1.0	Pre-Qualification Criteria (PQC)	ANNEXURE-I, Rev 0	Sheets-1
2.0	Instructions to Bidder- e procurement	ANNEXURE-II, Rev 0	Sheets-1 to 5
3.0	General Conditions of Contract (GCC)	ANNEXURE-IIIB, Rev 0	Sheets-1 to 3
4.0	Special Conditions of Contract (SCC)	ANNEXURE-IIIC, Rev 0	Sheets-1 to 1
5.0	Technical Enquiry Specifications & Scope of Work Doc. No.PC00192-TS-0201, Rev.0 Dt. 08.03.22 & PC00192-SOW-0201, Rev.0 Dt. 08.03.22	ANNEXURE-IV, Rev.0	Total Sheets- 23
6.0	Schedule of Rate (SOR) Doc. No. PC00192-5211-0940, Rev.0 (Submit Separately- in PRICE BID ENVELOPE).	ANNEXURE-V, Rev.0	Sheets-1 to 1
6.1	Unpriced Schedule (Unpriced SOR) Doc. No. PC00192-5211-0940, (Submit with Envelope-B/Unpriced bid without prices)	ANNEXURE-V (Unpriced), Rev.0	Sheets-1 to 2
7.0	Checklist / Agreed Commercial Terms & Conditions (ACTC)	ANNEXURE-VI, Rev.0	Sheet-1
8.0	Declaration by Bidder	ANNEXURE-VII, Rev.0	Sheet-1
9.0	Declaration by Bidder for Bid Security (EMD)	ANNEXURE-VIIa, Rev.0	Sheet-1
10.0	RTGS/NEFT Format For E-Payment	ANNEXURE-VIII, Rev.0	Sheet-1
11.0	Details Of Contractor / Company	ANNEXURE-IX, Rev.0	Sheet-1

for and on behalf of

PROJECTS & DEVELOPMENT INDIA LIMITED

R I Upadhyay Addl.GM (Civil) & HOD (MM)



Please refer the **Pre-Qualification Criteria (PQC)** which are given hereunder:

A. PQC (Technical): Experience Criteria

Bidder must have experience of having successfully completed similar works during last 07 (Seven years) ending last day of the month previous to the one in which Tenders/Bids are invited, should be either of the following:

Three similar completed Work/Order, each of Value not less than **Rs.4,00,000/-** (Rs. Four Lakhs only)

Or

Two similar completed Work/Order, each of Value not less than **Rs.5,00,000/-** (Rs. Five Lakhs only)

Or

One similar completed Work/Order of Value not less than **Rs.8,00,000/-** (Rs. Eight Lakhs only)

Similar works definition: having experience of Geotechnical / Soil Investigation work etc.

<u>Required document</u>: the bidders are required to submit Copy of Purchase Order / Completion Certificate / Performance Certificate documents towards proof of value of order executed.

B. <u>Pre Qualification Criteria (Financial)</u>:

- i. Average Annual Financial turnover during the last 3 years, ending 31st march of the previous financial year, should be at least Rs.3,00,000/-
- ii Networth shall be Positive as on 31st march 2021

<u>Required document</u>: To meet the above criteria, the bidder are required to submit copy of annual Report (Balance Sheet and Profit & Loss account) for the last 03(three) financial years / Chartered Accountant 's certificate.



- 1.0 A bidder who meets the Pre-Qualification Criteria as per ITB and intents to quote against this ITB may download the bidding document from PDIL website <u>http://pdilin.com</u> OR Central Public Procurement Portal <u>https://eprocure.gov.in/cppp</u> and submit the Bid complete in all respects as per terms & conditions of contract on or before the bid closing date and time.
- 2.0 <u>Submission of Bids</u>: Bids shall be submitted as detailed below:
- 2.1 Bidders to submit the bids online through the Central Public Procurement Portal for e-Procurement at https://eprocure.gov.in/eprocure/app)
 - 1) Possession of valid Digital Signature Certificate (DSC) and enrollment/registration of the contractors/bidders on the e-procurement / e-tender portal is a prerequisite for e-tendering.
 - 2) Bidder should do the enrollment in the e-procurement site using the "Click here to Enroll" option available on the home page. Portal enrollment is generally free of charge. During enrollment/registration, the bidders should provide the correct/true information including valid email-id. All the correspondence shall be made directly with the contractors/bidders through email-id provided.
 - 3) Bidder need to login to the site thro' their user ID/ password chosen during enrollment/registration.
 - 4) Then the Digital Signature Certificate (Class II or class III Certificates with signing key usage) issued by SIFY / TCS / nCode / eMudra or any Certifying Authority recognized by CCA India on eToken / SmartCard, should be registered.
 - 5) The DSC that is registered only should be used by the bidder and should ensure safety of the same.
 - 6) Contractor/Bidder may go through the ITB / tenders published on the site and download the required ITB documents/schedules for the tenders he/she is interested.
 - 7) After downloading / getting the ITB / Tender document/schedules, the Bidder should go thro' them carefully and then submit the documents as asked, otherwise bid will be rejected.
 - 8) If there are any clarifications, this may be obtained online thro' the tender site, or thro' the contact details. Bidder should take into account the corrigendum published before submitting the bids online.
 - 9) Bidder then logs in to the site through the secured log in by giving the user id/ password chosen during enrolment/registration and then by giving the password of the eToken / SmartCard to access DSC.
 - 10) Bidder selects the tender which he/she is interested in by using the search option & then moves it to the 'my tenders' folder.
 - 11) From my tender folder, he / she selects the tender to view all the details indicated.
 - 12) It is construed that the bidder has read all the terms and conditions before submitting their offer. Bidder should go through the tender schedules carefully and upload the documents as asked; otherwise, the bid will be rejected.
 - 13) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document/schedule and generally, they can be in PDF/xls/rar/zip/dwf formats. If there is more than one document, they can be clubbed together and can be provided in the requested format. Each document to be uploaded through online for the tenders should be less than 2 MB. If any document is more than 2MB, it can be reduced through zip/rar and the same can be uploaded, permitted. Bidder Bid documents may be scanned with 100 dpi with black and white option. However of the file size is less than 1 MB the transaction uploading time will be very fast.
 - 14) If there are any clarifications, this may be obtained through mail, or during the pre-bid meeting if any. Bidder should take into account the corrigendum published from time to time before submitting the online bids.
 - 15) The Bidders can update well in advance, the documents such as certificates, annual report details etc., under My Space option and these can be selected as per tender requirements and then send along with bid documents during bid submission. This will facilitate the bid submission process faster by reducing upload time of bids.
 - 16) Bidder should submit the Tender Fee/ EMD as specified in the tender. The original should be posted/couriered/given in person to the Tender Inviting Authority, within the bid submission due date & time for the tender. Scanned copy of the instrument should be uploaded as part of the offer.
 - 17) While submitting the bids online, the bidder reads the terms & conditions and accepts the same to proceed further to submit the bid packets



- 18) The bidder has to select the payment option as offline to pay the Tender FEE / EMD as applicable and enter details of the instruments.
- 19) The details of the DD / any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise submitted bid will not be acceptable.
- 20) The bidder has to digitally sign and upload the required bid documents one by one as indicated. Bidders to note that the very act of using DSC for downloading the bids and uploading their offers shall be deemed to be a confirmation that they have read all sections and pages of the bid document including General conditions of contract without any exception and have understood the entire document and are clear about the requirements of the tender requirements.
- 21) The bidder has to upload the relevant files required as indicated in the cover content. In case of any irrelevant files, the bid will be rejected.
- 22) If the price bid format is provided in a spread sheet file like BoQ_xxxx.xls, the rates offered should be entered in the allotted space only and uploaded after filling the relevant columns. the Price Bid / BOQ template must not be modified / replaced by the bidder; else the bid submitted is liable to be rejected for the tender.
- 23) The bidders are requested to submit the bids through online e-tendering system to the Tender Inviting Authority (TIA) well before the bid submission end date & time (as per Server System Clock). The TIA will not be held responsible for any sort of delay or the difficulties faced during the submission of bids online by the bidders at the eleventh hour.
- 24) After the bid submission (i.e after Clicking "Freeze Bid Submission" in the portal), the acknowledgement number, given by the system should be printed by the bidder and kept as a record of evidence for online submission of bid for the particular tender and will also act as an entry pass to participate in the bid opening date.
- 25) The time settings fixed in the server side & displayed at the top of the tender site, will be valid for all actions of requesting, bid submission, bid opening etc., in the e-tender system. The bidders should follow this time during bid submission.
- 26) All the data being entered by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered will not viewable by unauthorized persons during id submission & not be viewable by any one until the time of bid opening.
- 27) Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 28) The confidentiality of the bids is maintained since the secured Socket Layer 128 confidentiality technology is used. Date storage encryption of sensitive fields is done.
- 29) The bidder should logout of the tendering system using the normal logout option available at the top right hand corner and not by selecting the (X) exit option in the browser.
- 30) For any queries regarding e-tendering process, the bidders are requested to contact as provided in the tender document. Parallel for any further queries, the bidders are asked to contact over phone: 1-800-233-7315 or send a mail over to <u>cppp-nic@nic.in</u>.
- 2.2 Bidders are required to submit their bids under **three envelopes/Parts** as detailed below <u>Online at CPP</u> <u>Portal & also accept Physical Submission Of Offer.</u>

Envelope (A)

1) Earnest Money Deposit (EMD) as per Cl. 6.0 below.

(Scanned copy of EMD to be uploaded online at CPP Portal and Original EMD instrument to be submitted to PDIL, Vadodara as mentioned at clause no. 6.0 below within the date stated at cover page)

OR

A copy of valid Registration Certificate, in case of NSIC/MSE registered Companies.

2) Annexure-VIII Format of Bank Details (RTGS) for on line payment, all the details duly filled in.



Envelope(B): Un-priced Technical and Commercial Bid which comprises the following documents:

- a. Documents in support of 'Pre-Qualification Criteria" as per Annexure-I, attached.
- b. Complete ITB documents duly signed & stamped in each page with "Deviations"/"Exception" sheet (if any) and all Annexure duly filled in.
- C. **Price Confirmation Copy** A copy of Priced offer (Annexure-V), keeping price blank (hiding the price) and in place indicating "Quoted" or "√", as a confirmation of price quoted against the enquired item and all applicable Taxes & Duties, shall be submitted
- d. Copy of Check List / ACTC (Annexure-VI) as enclosed, duly filled by the bidder making all the points clear and not leaving any voids.
- e. Photo copy of PAN card.
- f. A Copy of GST registration certificate
- g. Any other document as per the requirement specified in the ITB.

Envelope (C): Price Bid

Price Schedule as per Annexure-V with quoted rates in Rs. and Taxes & Duties, as applicable, signed and stamped.

3.0 Opening of Bids

Bid opening will be Public. Envelope A and B only will be opened on Technical Bid Opening Date. Price Bids (Envelope C) of only those bidders will be opened which will be considered technically and commercially acceptable.

4.0 Evaluation of Bids

Bids shall be evaluated for Pre-Qualification Criteria (PQC) first and Techno-Commercial Bid Evaluation shall be carried out, only for those Bids which shall meet the Pre-Qualification Criteria (PQC).

Bids shall be scrutinized on Techno-Commercial parameters. Bids having unacceptable deviation may be rejected at this stage. However, clarifications shall be sought from bidder for any shortcoming found in their Bid at this stage.

The PRICE BID shall be opened only of those bidders who will be technically and commercially suitable.

5.0 Price Evaluation Criteria

- 5.1 Price Evaluation of Bids shall be done considering the quoted prices by the bidder in the Price Schedule/Schedule of rates i. e Annexure-V along with taxes and duties, on overall lowest bidder considering the Input TAX Credit(ITC) benefit, wherever applicable to PDIL.
- 5.2 In case of any discrepancy, unit rate shall prevail for calculation to arrive at the total price.

In case a bidder does not fill up any amount and leaves it blank or writing 'N/A' or put '-' against any item of Price Schedule, it shall be deemed that cost of such item (s) is included in other item by the bidder elsewhere in the quoted price.

Incomplete Price Schedule may result into rejection of bid.

- 5.3 <u>PUBLIC PROCUREMENT POLICY FOR MICRO & SMALL ENTERPRISES (MSEs)</u>: Benefits shall be extended to bidder under the Policy as per guideline issued by Ministry of MSME's Order dt.23.03.2012 issued vide Gazette Notification no.503 dt.26.03.2012 and related subsequent circulars for Public Procurement Policy for Micro & Small Enterprises (PPP for MSE), shall be applicable subject to submission of copy of valid/active Udyog Aadhaar Memorandum / Registration Certificate.
- 5.4 **PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA) ORDER 2017**: Benefits shall be extended to bidder under the Policy as per guideline issued by DIPP's Order No.P-45021/2/2017-B-E-11 dt.15.06.2017 and Revision Order No.P-45021/2/2017-PP (BE-II) dt.28.05.2018 and related subsequent circulars for Public Procurement Preference to Make in India (PPP to MII), shall be applicable. **Minimum Local Content shall be 50% for this tender.** The bidder shall provide a declaration in the attached Format (Anneuxre-X) that the item offered meets the minimum local content as specified in tender and shall give details of the location(s) at which the local value addition is made. *In case the total quoted price (excluding GST) is <u>up to Rs.10 crore</u> the bidder is required to provide self-certification and In case the total quoted price (excluding GST) is <u>more than Rs.10</u>*



<u>crore</u>, the bidder is required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of bidder other than companies) (**This tender is invited from Domestic bidders only considering the above MII-Order-2017**).

- 5.5 In case a bidder is eligible for seeking benefit under the Policy of PPP to MII-Order-2017 as well as PPP for MSE-Order-2012, then the bidder should categorically seek benefits against one of the two only i.e. either PPP to MII-Order-2017 OR PPP for MSE-Order-2012 policy. The option once exercised cannot be modified subsequently.
- 5.6 In case of participation of MSEs Vendor and Make in India (local content) Vendor against the same tender, MSE Vendor will be given preference to match with L-1 bidder as per Public Procurement Policy and accordingly allocation/award of order will be made.
- 5.7 PART/SPLIT ORDER is "Not Applicable", hence, Evaluation shall be carried out on Overall basis and shall be considered with reference to Ministry of MSME's Office Memorandum F.No.22 (1)2012-MA, dtd.24.10.2016 under SI.21 of FAQ with reference to MSEs Order 2012.
- 5.8 Please note that benefits against clause no.5.3 above with reference to MSEs Order 2012, shall be applicable as per Ministry of MSME's Office Memorandum F.No.22 (1)2012-MA, dtd.24- October-2016 under SI.18 of FAQ.
- 5.9 It may be noted that Government of India has implemented Trade Receivable Discounting System (TReDS) to address challenges faced by MSMEs in delayed payments (after receipt/acceptance of Material/Services) from Government buyers leading to shortfall of Working Capital.

TReDS is an online electronic institutional mechanism for facilitating the financing of trade receivables of MSMEs through multiple financiers.

PDIL is already registered on the below mentioned TReDS platform:

M/s Receivable Exchange of India (RXIL), Mumbai-

MSME Bidders are requested to register on the TReDS platform. The MSME vendors can avail the TReDS facility, if they want to.

6.0 Earnest Money Deposit (EMD)

Earnest money deposit **Rs. 13,000/- (Rupees Thirteen Thousand Only)** shall be submitted by way of Demand Draft/ Banker's Cheque only drawn on any Scheduled/Nationalized Bank in favour of 'Projects & Development India Ltd.' Payable at Vadodara **Quotation/Bid without EMD may not be considered.** However, NSIC/MSEs registered Companies are exempted from submission of EMD provided a valid Certificate in this regard is submitted.

- 6.1 EMD shall be refunded:
 - To the unsuccessful bidders after acceptance of order by the successful bidder(s).
 - To the successful bidder(s) after deposition of Security money/ confirmation by the Bank for the Security cum Performance Guarantee submitted by bidder.
 - No interest shall be payable on EMD.
- 6.2 EMD may be forfeited without prejudice to any other right or remedy of PDIL including but not limited to following circumstances:
 - a) If a bidder withdraws his bid during the period of bid validity specified by the bidder

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- b) In the case of successful bidder, if the bidder fails to accept the order
 - OR
- c) If a bidder is found to have furnished Mis-representation or wrongful declaration/ presentation of qualifying data and other facts in their Bid

7.0 Validity of Bids:

FORM NO: 02-0000-0021F2 REV 1



Prices quoted should remain valid for our acceptance for a minimum period of 90 days from the date of opening of technical bids. PDIL will not allow any revision in prices within validity period after sealed tender are opened.

- **8.0** If at any later date, it is found that documents, information and data submitted by the Bidder in the Bid, and based on which the Bidder has been considered eligible or successful or has been awarded the Contract is incorrect or false to the extent that had the correct or true information been made available to the OWNER at the time of Bid evaluation, the bid would have been declared ineligible or unsuccessful, the Bidder shall be forthwith disqualified or, as the case may be, the contract awarded based on such incorrect or false information shall be cancelled and the EMD/PBG/Security Deposit shall be liable to be forfeited.
- **9.0** Bidders are required to carefully go through the entire scope of ENQUIRY, terms and conditions, and other requirements before quoting. They should feel free to contact PDIL before submission of bid if they have any query on it. Once the bid is submitted, PDIL will presume that the bidder has understood thoroughly the Scope of Supply along with terms & conditions and all these are acceptable to them.
- **10.0** Bids shall be typed or written in indelible ink and must be free from corrections / erasing / overwriting etc. Any changes made must be authenticated with initial by the Bidder.
- **11.0** Bid shall be ideally in conformity to the Scope of supply/work along with all Terms & conditions, stipulated in the ENQUIRY. PDIL shall appreciate to receive a Bid having no deviation. However, under unavoidable circumstance, a Bidder may submit Deviations in a separate sheet, which PDIL at its own liberty may accept or reject. Deviations found elsewhere inside the Bid document shall not be considered. Deviations including condition(s), if any, found in the Price bid shall liable for rejection of a Bid in totality.
- **12.0** PDIL reserves the right to reject any or all the bids without assigning any reason whatsoever and does not bind itself to accept the lowest or any other bid. All bids in which any of the prescribed conditions are to be fulfilled or are incomplete in any respect are liable to be rejected. PDIL is at liberty to take any of the following actions in case of this ITB:
 - a) to cancel the tender without reference to the bidders.
 - b) to postpone the due date and time.
- **13.0** Bidders shall not be entitled to claim any costs, charges, expenses or incidentals for or in connection with the preparation and submission of their bids even though Project & development of India Limited may withdraw the enquiry/tender or reject all bids.
- **14.0** <u>SITE VISIT</u>: If needed, Bidder may visit the site before quoting their rates. For site visit and any clarifications please contact to:

Shri D K Karamata Addl. GM (Civil), Projects & Development India Limited, Vadodara. Phone:0265-2388403, EPABX-0265-2388418-21, Extn-109, FAX: 0265-2388398/99 Email: dkkaramata@wro.pdilin.com

- 15.0 Bids submitted thro' FAX and e-mail will not be accepted. No request from any bidder to PDIL to collect the bid from airlines, cargo agents etc. shall be entertained by PDIL.
- 16.0 PDIL reserve the rights to assess bidder's capability and capacity to perform the contract
- 17.0 Bids must be submitted on or before the closing date and time physically in the bid box at the office of HOD(MM), Projects & Development India Limited, PDIL Bhawan, Samta, Subhanpura, Vadodara-390023, Gujarat, India, or by registered post/courier on the above address so as to reach well in advance of the closing date and time. Offers received late are liable for rejection & no complaint shall be entertained in this regard for any reason whatsoever including postal/courier delay.
- 18.0 To know more about PDIL, please visit our website <u>http://www.pdilin.com</u>



1.0 Scope of Contract

The Scope of Contract/ Purchase Order (P.O), shall be as per 'Scope of Work & Technical Enquiry Specification' and/or 'Schedule of Rate (SOR)', attached to the ITB, unless & otherwise it is modified, at subsequent stage of bidding.

2.0 Firm Price

Price to be quoted shall be firm and subject to no escalation whatsoever during the contractual completion period including extended period, if any, except for any statutory variations i.e. change in the rate of tax & duty and/or inclusion of any new tax & duty.

Bid with variable price will not be accepted.

3.0 Price Basis

Duly executed at location specified elsewhere in this ITB.

4.0 <u>Taxes and duties</u> (To be read in conjunction with SCC)

- 4.1 Rate of **Goods & Service Tax (GST)**, should be indicated in the 'Price Schedule' and which shall be paid as extra.
- 4.2 Statutory variation in taxes and duties including imposition of any new tax & duty, within the scheduled Completion period, as per P.O, shall be paid at actual on production of documentary evidence.
- 4.2.1 In case of delay in execution, if there is any increase in the rate of tax & duty and/or there is imposition of any new tax/ duty by statutory authorities, PDIL shall restrict the payment of taxes & duties, as prevalent on the scheduled delivery/ completion period only, as mentioned in the P.O and amendment(s) there to.
- 4.2.2 If there is any decrease in applicable rate of taxes & duties &/or there is any withdrawal of any tax & duty by statutory authorities, during the completion period including extended/amended period of P.O, shall accrue to PDIL's a/c.
- 4.3 The Contractor has to submit / furnish all necessary documents / information to enable PDIL claim Input Tax Credit(ITC),wherever applicable, in respect of GST.
- 4.4 PDIL shall not issue any form other than Form-38 i.e. Road Permit, if required, on written request by the Contractor.
- 5.0 Effective date of Contract/ P.O: Shall be the date of issuance of LOI/ P.O.

6.0 <u>Completion Period/ Time Schedule</u>

6.1 Mobilization Period: ...days from the date of intimation by PDIL.

Completion Period: Upto 31st July 2022 days/ weeks/ month from the date of issue of Order/ handing over site.

6.2 For Annual Maintenance Contract (AMC)/ Annual Rate Contract (ARC)

The Contract shall be valid for a period of TWO (02) Year/s from the Effective date. This period can be further extended on mutual agreement.

7.0 Payment Terms

100% Payment shall be released, within 30 days after completion complete scope of job/work as per *technical specification attached*, elsewhere in the ITB, on the invoice, duly certified by Engineer In Charge of PDIL.

7.1 Payment For AMC/ARC:

100% quarterly/monthly/ payment shall be released within 15 days of submission of invoice on Weekly basis duly certified by Contact person/ Engineer In Charge of PDIL i.e.HOD(P&A). The quarterly Weekly bills shall be submitted by the contractor with all necessary documents to the Engineer-In-charge/Contact Person of PDIL for the Contract.

The above payments shall be released subject to submission of Security cum Performance Guarantee/ Security Deposit, **if applicable**, as mentioned herein below, failing which the same amount shall be deducted from the Contractor's Bill(s)



All payments will be made by account payee cheque or direct transfer in bank account through RTGS.

- 7.2 **Tax deduction at source: Income tax**, as applicable as per income tax act, shall be deducted at source from the Supplier's bills and a certificate towards this deduction shall be issued to the Supplier.
- 7.3 As per Ministry of Finance (Department of Revenue) Circular No.65/39/2018-DDO, dtd.14.09.2018, <u>TDS</u> <u>@2% under GST</u>, shall be deducted from Contractor's bills for the <u>Order Value 2.5 Lacs or More</u> and a certificate towards this deduction shall also be issued to the Contractor.

8.0 Security Deposit

- 8.1 Security Deposit shall be applicable for P.O value more than Rs. 2.00 lac.
- 8.2 Security cum Performance Guarantee/ Security Deposit for an amount equivalent to 10% of P.O value shall be submitted within 15 days of issuance of P.O, in the form of Demand Draft (DD)/Banker's Cheque. The same shall be valid to cover completion period.

Bank Guarantee (BG) for Security Deposit shall be entertained for value \geq Rs 1.00 lac. PBG shall be valid to cover completion period plus three (03) months claim period thereafter. PBG shall be issued by any Scheduled Commercial Bank. Format of PBG is enclosed herewith at Annexure-X.

8.3 In the absence of submission of Security Deposit, the equivalent amount after adjustment of EMD amt., if any, shall be adjusted from the bills.

8.4 In case of ARC, Earnest Money deposit (EMD) shall be retained as Security Deposit for faithful performance of contract.

- 9.0 No interest shall be payable on Security Deposit.
- 9.1 PDIL Vadodara, however, reserves the right to encash/ forfeit the Security Deposit, if the Contractor fails to execute the Contract and/or abide by all the terms and conditions of the P.O.
- 9.2 Security deposit shall be refunded after 30 days of completion of Contract on the certification of Engineer In Charge for due fulfilment of the contractual obligations and after adjusting the expenditure incurred by the Owner, if any, on account of any failure on the part of the contractor.

10.0 Price reduction clause

In the event of delay in completion beyond contractual completion period, price reduction @ 0.5% per week or part thereof subject to maximum 5% of total P.O value shall be recovered from Contractor's bill(s).

11.0 Insurance

Necessary insurance(s) to cover accident risk for his employees loss of life, material etc. to crew or the third party to be arranged by Contractor at his cost.

11.1 Statutory obligation and Safety Rules (For AMC/ ARC)

The Contractor will have to follow all safety rules and measures during contract period and will be fully responsible for implementing rules, obligations and statutory provisions of government and all the consequences in the event of any eventuality.

The Contractor shall be responsible to observe and comply with all statutory requirement including contract labour act 1970, minimum wage act – 1948 and EPF act 1952 etc. including all amendments thereof in vague both of central and state government. PDIL shall be kept indemnified against any action brought against it or any violation / non –compliance of any act /acts, all expenses for compliance of above acts and regulations shall be borne by the contractor.

The Contractor shall comply with at his cost all safety norms such as Fire and Safety regulation act as applicable at site.

The Contractor shall be responsible for all risk involved in respect of their personnel and material at site and arrange proper insurance coverage at his cost.

Personnel deployed should be medically fit to work should posses good conduct and should have no past criminal record and shall maintain high standard discipline, decency and decorum. PDIL reserves the right at its sole discretion to ask for replacement of any person employed by the contractor.

12.0 <u>Termination</u>



In the event of unsatisfactory performance, PDIL reserves right to cancel part or whole of the order / contract and make alternate arrangement at any time during currency of contract on risk & costs of contractor and / or forfeit security deposit.

13.0 Force Majeure

The act of God, epidemic, wars, revolution, and official strike shall be treated as force majeure condition. In event of occurrence of such condition neither party shall be responsible for delay in performance provided that it is notified within 07 days of its occurrence. The Contractor shall provide justification by documentation countersigned by the local chamber of commerce.

14.0 <u>Arbitration</u>

All cases of dispute arising during execution of contract shall be resolved by mutual discussion of parties operating the Contract. In the event of failure to do so, matter will be settled as per Arbitration and Conciliation Act, 1996, as amended from time to time.

However, wherever applicable, in case of settlement of commercial disputes between PSEs inter SE and PSE(s) and Government Department(s), the same shall be settled through Permanent Machinery of Arbitrators (PMA) setup in the Department of Public Enterprises(DPEs) as per the following Clause:

"In the event of any dispute or difference relating to the Interpretation and application of the provisions of the contracts, such dispute or difference shall be referred by either party for Arbitration to the sole Arbitrator in the Department of Public Enterprises to be nominated by the Secretary to the Government of India in-charge of the Department of Public Enterprises. The Arbitration and Conciliation Act, 1996 shall not be applicable to arbitration under this clause. The award of the Arbitrator shall be binding upon the parties to the dispute, provided, however, any party aggrieved by such award may make a further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs, Ministry of Law & Justice, Government of India. Upon such reference the dispute shall be decided by the Law Secretary or the Special Secretary/Additional Secretary, when so authorized by the Law Secretary, whose decision shall bind the Parties finally and conclusively. The Parties to the dispute will share equally the cost of arbitration as intimated by the Arbitrator".

The performance under this contract, shall not stop for any reason, whatsoever, during the said dispute / proceedings, unless the service provider is specifically directed by PDIL to desist from working in this behalf.

15.0 Jurisdiction

The P.O shall be deemed to have been entered into at Noida/Vadodara/Sindri, for PDIL's different Unit, as the case may be and all cases of action in relation to the P.O shall, therefore, be deemed to have been assigned within its jurisdiction for respective Unit/location.



- 1.0 <u>SCOPE OF JOB</u>: Engagement of agency for Geotechnical / Soil Investigation Work for Construction of Grass Root Pol CUF (Common User Facilities) Depot at , Bajalta Jammu J&K BPCL (PDIL's Project Site), as per Scope of Work Doc. No.PC00192-SOW-0201, Rev.0 Dt. 08.03.2022 & Technical Enguiry Specification, Doc. No. PC00192-TS-0201, Rev.0 dt.08.03.2022, enclosed with this ITB.
- 2.0 <u>PRICE BASIS</u>: The bidder shall quote item wise Unit rates and Total amount in attached Schedule of Rates (Doc. No. PC00192-5211-0940, Rev.0). The quoted Prices shall be Duly executed the job at Bajalta Jammu J&K BPCL basis inclusive of all cost of labour, equipment & machineries or all other associated cost with consumables and all taxes & duties EXCEPT GST which shall be applicable as indicated by bidder in ACTC/Separately. No extra payment shall be made.
- 2.1 **<u>FIRM PRICE</u>**: **Quoted Prices** shall remain Firm & Fixed during the contract period and no variation in quoted Service Charges shall be applicable,
- 3.0 **PART ORDER/SPLIT ORDER:** Part Order / Split Order is **NOT APPLICABLE** for this tender, hence, evaluation shall be carried out on overall basis.
- 4.0 <u>DISCREPANCIES IN QUOTED PRICES/ OTHER ISSUES</u>: The prices must be written both in figures and words. Unit prices shall be considered correct in the event of any discrepancy with regard to total price. In the event of difference, prices written in words shall be valid & binding. If the bidder has submitted prices in the price schedule & also on their own letter head/format, the prices written in the Price Schedule shall be considered valid & binding, in case of any discrepancy. In case of submitted Price Bid does not contain Bidder's name/Official Seal, Unsigned shall be considered incomplete with reference to requirement of ITB clause 2.0- Envelope(c)-Price Bid of Anx.-II (Instruction to Bidder), may lead rejection of submitted Price Bid.
- 4.1 In case Price bid is submitted by Bidder copying the price schedule format and missed out/changed any text which conflicts to PDIL's prescribed format, PDIL reserve the right to consider the bidder's submitted Prices ONLY for the text details indicated in the Price Schedule (Annexure-V) with reference to the confirmation against Unpriced Schedule.
- 4.2 Besides, the PDIL's standard procurement procedure shall prevail on any other issues.
- 5.0 <u>Goods & Service Tax (GST):</u> GST shall be paid EXTRA as applicable as per GST law against GST Registration Number Only. Bidder shall clearly indicate the present applicable rate of GST in Percentage (%)and enclose copy of GST registration certificate alongwith unpriced offer..
- 5.1 In case, PDIL is eligible to avail Input TAX Credit (ITC) against-payment of GST, the credit amount will be considered while evaluating the price to arrive at the net landed cost for which necessary documents shall be provided by the bidder to enable PDIL to avail the credit.
- 5.2 Imposition of any new taxes & duties and changes in quoted taxes & duties after issuance of LOI/PO by statutory authorities during contractual period shall be considered on production of documentary evidence
- 5.3 Bidders shall clearly indicate in their offer whether they will incorporate the PDIL's GST No. at IRCTC e-ticket booking portal towards GST paid against Ticket Fare while booking of tickets.

6.0 <u>TENURE OF JOB: Upto 31st July 2022</u> w.e.f. date of award of contract.

- **7.0 <u>PAYMENT TERMS:</u>** Within 30 days of submission of your invoice duly certified by Contact Person, PDIL for executed services/Work.
- 7.1 Invoice for payment shall be submitted to Contact person of PDIL who shall forward after certification, to Finance for payment.
- 7.2 The mode of Payment to Supplier/Contractor in PDIL is generally E-Payment through RTGS/NEFT. To facilitate the same, Successful Bidder to fill up the required details in the format for E-Payment through RTGS/NEFT (Refer Annexure-VIII) and submit the same alongwith EMD in Envelope-A.
- 7.3 If you are eligible/entitled for any privilege/benefit under any statutory body/act/law like MSMED Act 2006 for MICRO/MEDIUM/SMALL Scale Company etc, please submit the valid documentary evidence and clearly indicate in your offer.



8.0 PERFORMANCE SECURITY DEPOSIT: As per clause no.8.0 of GCC (Annexure-IIIB).

- 9.0 <u>CONTACT PERSON/ENGINEER-INCHARGE for OPERATION OF ORDER/CONTRACT</u>: This order/contract shall be operated by contact person of PDIL Shri DK Karamata, Addl. GM(Civil/Computer/PE) PDIL, Vadodara, (Email:dkkarmata@wro.pdilin.com) or his authorized representative. Invoice for payment shall be submitted to him who shall forward after certification, to Finance for payment.
- **10.0** In case of an irreconcilable conflict between General Conditions of Contract, Special Conditions of Contract, terms specified in Special Conditions of Contract shall prevai



TITLE

TECHNICAL SPECIFICATION FOR GEOTECHNICAL / SOIL INVESTIGATION WORK AT BAJALTA, JAMMU (J&K)

PROJECT

CONSTRUCTION OF GRASS ROOT POL CUF (COMMON USER FACILITIES) DEPOT AT BAJALTA, JAMMU (J&K)

OWNER BHARAT PETROLEUM CORPORATION LIMITED JAMMU

ENGINEERING CONSULTANT PROJECTS & DEVELOPMENT INDIA LIMITED VADODARA

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REV	REV DATE	EFF DATE	PURPOSE	PREPD	REVWD	APPD



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1.00 SCOPE

- 1.01 These specifications cover the procedure for soil investigations for foundations.
- 1.02 The work shall be carried out in accordance with the specification set out below and as directed by the Engineer-in-Charge, where necessary.

2.00 CODES

- 2.01 These specifications conform to the Indian Standards on soils and Foundations as given below :
 - IS: 1498 Classification and Identification of Soil for General Engineering Purposes.
 - IS: 1888 Method of Load Tests on Soil.
 - IS: 1892 Code of practice for Site Investigations for Foundations.
 - IS: 2131 Method for Standard Penetration Test.
 - IS: 2132 Code of Practice for Thin Walled Tube sampling of soils.
 - IS: 2720 Method of Test for Soils (Relevant Parts).
 - IS: 2911 Code of practice for design and construction of pile foundations.
 - (Part-I)
 - Section-1: Driven cast-in-situ concrete piles.
 - Section-2: Bored cast-in-situ piles.
 - Section-3: Driven precast concrete piles.

IS: 2911 Code of practice for design and construction of pile foundations.

(Part-II) Under Reamed Piles.

- IS: 4434 Code of Practice for In-Situ-Vane-Shear Test for Soils.
- IS: 4968 Method for sub-surface sounding for Soil:
- (Part-I) Dynamic Method Using Cone without Bentonite Slurry.
- IS: 4968 Method for sub-surface sounding for Soil:
- (Part-II) Dynamic Method Using Cone and Bentonite Slurry.
- IS: 4968 Method for sub-surface sounding for Soil:
- (Part-III) Static Cone Penetration Test.
- IS: 5249 Method of Tests for Determination of In-situ Dynamic Properties of Soils.

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- Code of Practice for in-situ permeability tests : IS: 5529
- (Part-I) Test in overburden.
- IS: 6403 Code of Practice for determination of allowable bearing pressure on shallow foundations.
- IS: 6935 Determination of water level in borehole.
- Code of practice for calculation of settlement of foundations : Shallow IS: 8009 foundations subject to symmetrical static vertical loads.
- IS: 9118 Method for measurement of pressure by means of manometer.
- 2.02 Reference to any code in these specifications shall mean the Latest revision of the code unless otherwise mentioned. In the event of any conflict between the requirements in these specifications and the referred codes, the former shall govern.

3.00 SOIL INVESTIGATIONS

3.01 BORING

Boring shall be carried out in accordance with the provisions of IS: 1892 and as per the specifications given below:

- 3.01.1.0 AUGER BORING
- 3.01.1.1 Augers shall be of helical or post hole type and may be manually or power operated. The Augers shall be used only up to ground water level and no water shall be added during auger boring. The diameter of the hole shall be minimum 100 mm and preferably 150 mm.
- 3.01.1.2 Uncased holes shall be permitted only up to a depth where the sides of the hole can stand unsupported. In case side fall is noticed, steps shall be taken immediately to stabilize the holes by using bentonite slurry or by casing pipes as directed by the Engineer.
- 3.01.1.3 No water shall be added while boring through cohesive soils and cohesion less soils above water table. While boring through cohesion less soil below water table, water in the casing shall always be maintained at or above the water table.
- 3.01.1.4 The cuttings brought up by the auger shall be carefully examined and soil descriptions duly recorded. Representative samples shall be preserved for laboratory testing.
- 3.01.1.5 Wherever in-situ tests are conducted and undisturbed samples are obtained at specified depths from the borehole, care shall be taken to ensure that the borehole is properly cleaned and free from foreign matters at the time of conducting these operations.
- 3.01.1.6 Water table in the borehole shall be carefully recorded and reported.



3.01.2.0 SHELL AND AUGER BORING

- 3.01.2.1 Augers shall be of helical or post hole type and may be manually operated. The diameter of the hole shall be minimum 100 mm and preferably 150 mm.
- 3.01.2.2 Specifications set forth in clauses 3.01.1.2 to 3.01.1.7 for Auger Borings shall apply to shell and Auger borings also.
- 3.01.2.3 Auger shall be used for soft to firm clay and for silt deposits at upper depths of 10 meters or up to the water table whichever is deeper. For deeper depths in such deposits and for very stiff to hard clays and dense sands located at any depth, use of shell may be made.
- 3.01.2.4 While boring in soft clays and in sandy deposits below water table, it shall be ensured that the shell diameter shall be at least 25 to 50 mm less than the casing diameter. This is to ensure that suction is not created in the borehole during withdrawal of the shell with consequent "Caving in and blowing" in the boreholes.
- 3.01.3.0 ROTARY MUD CIRCULATION DRILLING
- 3.01.3.1 The drilling shall be carried out manually conforming to IS: 1892 or by use of a suitable mechanical rig.
- 3.01.3.2 Drilling up to water table shall be done by auger and provisions of clauses 3.01.1.1 to 3.01.1.7 shall apply. Below the water table drilling by rotary and circulation shall be adopted.
- 3.01.3.3 Use of percussion tools may be permitted in very stiff to hard clays and dense sandy deposits.
- 3.01.3.4 Use of chisel/ percussion shall be permitted exclusively in strata having SPT below count greater than 100/30 cm penetration or less. If the rate of advancement of boring by chiseling is little or slow (i.e. less than 20cm in 4 hrs). The contractor may adopt core drilling with Nx size Tc bit. Where the core recovery exceeds 25%, the Tc bits shall be used for coring in soft/weathered rock and diamond bits for hard rock having core recovery 50% or more. Double tube core barrel shall be used for coring. The drill core and cutting shall be preserved carefully in core boxes and core recovery & RQD of each of the core taken shall be recorded. The selected core samples shall be transported to the laboratory for testing at no additional cost. The cost of core boxes shall be deemed to have included in the quoted rates. The contractor shall at his own cost transport the core boxes to the place of storage as directed by the Engineer-In-Charge.

3.01.4.0 TERMINATION CRITERIA

The boreholes shall be terminated as per the following criteria:

- a) When the specified depth of borehole is reached and drilling in soft/weak/weathered rock reaches 5.0m depth or
- b) Drilling in hard rock reaches 1m depth.



If very hard soil is met within the borehole at depths shallower than specified in tender documents, the bore- hole shall be advanced by chiseling. If in the opinion of the Engineer-in-Charge, the rate of advancement of borehole is still low, coring may be resorted to subsequently.

3.01.5.0 BORE-LOG

Immediately on completion of a borehole, bore-log shall be prepared and submitted to the Engineer-in-Charge in triplicate. Detailed bore logs indicating coordinates, Reduced level, ground water table etc., sub soil section along various profiles indicating boreholes nos., depth wise in-situ tests like SPT

3.01.6.0 BACK-FILLING OF BOREHOLES

Backfilling of Bore holes to be done with 1:1Cement: Bentonite or Mud grout.

3.02 IN-SITU TESTING

- 3.02.1.0 STANDARD PENETRATION TEST
- 3.02.1.1 The test shall be conducted at regular intervals or at a depth where the strata changes, whichever occurs earlier. Up to a depth of 10 m, interval shall be 1.5 m. Thereafter SPT tests shall be conducted at an interval of 2 m up to 20 m depth, followed by an interval of 3 m beyond 20 m depth.
- 3.02.1.2 The test shall be carried out by driving a standard split spoon by means of 63.5 kg hammer with a 75 cm free fall. Detailed procedure of testing, as specified in IS: 2131 "Method of Standard Penetration Test in Soils" shall be followed. The samples obtained in the split spoon shall be labeled and preserved for identification tests in the laboratory.
- 3.02.1.3 The standard penetration test shall be discontinued when N is greater than 75 blows for 30 cms of penetration.
- 3.02.2.0 VANE SHEAR TEST
- 3.02.2.1 These tests shall be conducted in soft to firm clays and sensitive clays. These tests shall also be conducted in case of stiff fissured clays where samples cannot be taken.
- 3.02.2.2 Test may be conducted from the bottom of bore-hole or by direct penetration from ground surface as per IS: 4434. The results of vane shear test shall be maintained and submitted to the Engineer-in-Charge in triplicate.
- 3.02.2.3 The apparatus used for Vane Shear Tests shall satisfy the requirements conforming to IS: 4434.
- 3.02.2.4 The following points shall be carefully supervised in the field :
 - a. The vane selected shall be the largest size suitable for the general soil conditions at site.



- b. The vane shall be frequently checked for straightness.
- c. If torque versus rotation curve is to be determined, It is essential that the torque rods shall be calibrated prior to the use in the field. The amount of rod twist, if any, shall be established in degree per meter per unit torque. This correction becomes progressively more important as the depth of test increases. The calibration shall be made at least to the maximum depth of testing anticipated.
- d. During the test, it is essential that the rods and Vane are placed centrally in the bore-hole. For this purpose guides shall be used at an interval in depth of not more than 5.0 m.
- e. The apparatus shall be checked and calibrated as and when required.
- f. Straightness of vane shall be checked while the entire assembly of vane connected with rod is lowered to the bottom of bore-holes. Vane shall be pushed with a moderate steady force up to a depth of five times the bore-hole diameter below the bottom of bore-holes. Precaution shall be taken to ensure that no torque is applied to the torque rods during the application of thrust. No hammering shall be done.
- g. 5-minute's time shall be allowed to lapse after insertion of vane.
- h. Torque indicator readings shall be recorded at intervals of 30 seconds until the vane readings drop appreciably from the maximum.
- i. Samples shall be collected from the levels at which the tests have been conducted.
- j. In case of tests by Direct Penetration from Ground Surface, rods shall remain tight when vane is lowered. Guides shall be placed at every 3.0 m. to centralize and reduce friction between rods and extension pipe.

3.02.3.0 DYNAMIC CONE PENETRATION TEST

- 3.02.3.1 The method of conducting the tests and the details of the equipment shall conform to one of the two alternatives given below. The particular method to be followed is indicated under specific requirements:
 - a. The test shall be conducted in accordance with IS: 4968 (Part- I). The cone size shall be 50 mm.
 - b. The test shall be conducted in accordance with IS: 4968 (Part- II). A continuous flow of bentonite slurry shall be maintained through the rods and the cone so as to avoid friction between the rods and the soil. The cone size shall be 65 mm. and provided with vents for flow of bentonite slurry.
- 3.02.3.2 Dynamic cone penetration tests shall be terminated when blow counts (Ne) exceed 150 for two successive penetrations of 30 cms. each.



- 3.02.3.3 The results shall be recorded in a suitable tabular form enclosed, giving blow counts for every 30 cm. penetration, supplemented by a graphical plot of blow counts versus depth.
- 3.02.4.0 STATIC CONE PENETRATION TEST
- 3.02.4.1 The method of conducting tests and the details of the equipment used for this test shall conform to the requirements of IS: 4968 (Part- III).
- 3.02.4.2 The capacity of the equipment to be used for test shall not be less than 3.0 tonnes but preferably 10.0 tonnes.
- 3.02.4.3 The test shall not be carried out on gravely soils and for soils with Standard Penetration Value "N" greater than 50.
- 3.02.5.0 PLATE LOAD TEST
- 3.02.5.1 Plate Size and Thickness:
 - a. For Clayey and silty soils and for loose to medium compact sandy soils (N<15), chequered plate of 60 x 60 cm shall be used. Alternatively, circular plate of equivalent area also may be used.
 - b. For dense sandy or gravely soils (15<N<30) the smallest size shall be 30 cm. square and largest 75 cm. square. Circular plates of equivalent areas may also be used.
 - c. The minimum thickness of the chequered plate shall be 25 mm.
- 3.02.5.2 Test Pit:
 - a. Test pit shall be at least five times as wide as the test plate and the depth of the pit shall be the same as the depth of actual foundations.
 - b. If the test is to be done on strata below water table, the water level shall be maintained at the plate level, throughout the test by dewatering, especially in sandy soils.
 - c. The test shall be conducted immediately after excavation of soil.

3.02.5.3 Placing of Test Plate:

Plate shall be placed on the soil by spreading fine sand in a layer not exceeding 5 mm carefully leveled and set horizontally at the bottom of the pit. A minimum seating pressure of 70 g/cm² shall be applied and removed before starting of the load test.

- 3.02.5.4 The method of conducting Plate Load Tests shall conform to IS: 1888.
- 3.02.5.5 Settlement and Observation:



- a. Settlement shall be recorded with at least two dial gauges, resting at diametrically opposite ends of the plate.
- b. Settlement shall be observed for each increment of load after an interval of 1, 2.25,4, 6.25,9, 16, 25, 36 and 64 minutes and thereafter every one hour.
- c. The next load increment shall be applied when the rate of settlement is less than 0.02 mm/hr with a minimum period of two hours. For computing the rate of settlement its extrapolation for periods less than one hour shall not be permitted.

3.02.5.6 Record:

- a. Record shall consist of the following:
 - 1. Load-settlement reading in tabular form.
 - 2. Time-settlement curve for each load stage.
 - 3. Load-settlement curve in natural and log-log scale.
 - 4. Modulus of sub-grade reaction evaluated from test.
- b. In addition to above, the record shall also contain the followings :
 - 1. Date
 - 2. List of personnel
 - 3. Weather conditions
 - 4. Irregularity in routine procedure, if any.
- 3.02.5.7 Post Test Requirements:
 - a. Back-filling of the pit shall be carried out in an approved manner and as per the directions of Engineer-in-Charge on completion of test.
 - b. An auger bore-hole shall be made from the depth of test extending to a depth of 6.0 m below test depth so as to ascertain the nature of sub-soil test depth. If required, undisturbed samples shall be obtained at suitable depths from borehole.

3.02.6.0 FIELD CBR TEST

This test shall be conducted as per IS: 2720 (Part-XXXI) at specified depth after removing top soil, vegetation and organic matter.

3.02.7.0 DYNAMIC SOIL TESTS

3.02.7.1 General

The following tests shall be conducted for the determination of dynamic properties of soil for use in the design of foundations subject to vibratory loads:

3.02.7.2 Wave Velocity Measurements

The test set up and method of conducting the tests shall conform to IS: 5249. The concrete block shall be cast at the expected foundation level. After completion of the test, back filling of the pit shall be carried out in an approved manner and as per the directions of the Engineer-in-Charge after removing the concrete block.

3.02.7.3 Resonance Tests

The equipment set up and method of conducting the tests shall conform to IS: 5249.

3.02.7.4 Cyclic Plate Load Test

The test set up and plate size shall conform to that for plate load tests. After stabilization of settlements for each load increment, load shall be removed and elastic rebound and residual settlement recorded.

3.02.7.5 Repeated Triaxial Shear Test

This test shall be carried out for confining pressure ranging from 0.5 Kg/cm² 4.0 Kg/cm².

The triaxial sample shall first be subjected to an initial load equal to the anticipated static working load, which shall be indicated at the time of testing. Positive and negative values of a small increment of load shall then be applied to the sample in cycles and graph plotted of stress against strain. E-Value shall be obtained from this plot after obtaining a stable state.

Results of all the above tests shall be incorporated in the form of a plot of shear modulus Vs. confining pressure for a range of pressure up to 4.0 Kg/cm². All the stress-strain diagrams as well as Mohr's circle envelopes is to be included in the report.

3.02.7.6 Electrical Resistivity Test

This test shall be conducted as per Appendix B, Clause 3.2 of IS1892 - 1979. The test shall be done by using 4 points. The locations where ERT IS to be performed shall be finalized in consultation with EIC.



3.03 SAMPLING

3.03.1.0 Sampling Record:

All samples (disturbed and undisturbed) collected from the pit/bore-hole shall be labeled and attached to the top of sampler, in case of undisturbed samples. In case of samples collected in Jar or other containers, the label should be properly pasted to the Jar/container.

- 3.03.2.0 Undisturbed Soil Samples from Borehole:
- 3.03.2.1 Samplers for recovering undisturbed samples from cohesive soils at the specified depth shall conform to IS: 2132. However, use of samples less than 70 mm diameter shall not be permitted.
- 3.03.2.2 The sampling procedure shall conform to IS: 2132. Both the area ratio of the cutting edge, as well as recovery ratio of the sample shall be measured and reported. For normal soils, area ratio of the sampling tubes, shall conform to IS: 2132, that is it may vary from 10.9 percent to 12.4 percent but for sampling in very hard and dense soils, use of thick walled sampling tubes with area ratio not exceeding 20% may be permitted subject to the approval of the Engineer-in-Charge.
- 3.03.2.3 In order to reduce the wall friction, suitable precautions such as oiling inside and outside the sampling tubes shall be observed. The sampling tube shall have smooth finish.
- 3.03.2.4 In soft to firm clays, undisturbed samples shall be collected by pushing the tube continuously without impact or twisting. Driving of sampling tubes shall be permitted only if stiff to very stiff and hard deposits exists.
- 3.03.2.5 For highly sensitive soils, piston samples shall be employed.
- 3.03.2.6 For soft clays exceeding more than 15 m depth from the ground level, collection of undisturbed samples shall be supplemented by the In-situ Vane shear test.
- 3.03.2.7 The top and bottom of the sample shall be clearly marked on the sampling tube.
- 3.03.2.8 Undisturbed samples shall be tested within a period of two weeks of taking them from the bore holes of Trial pit.
- 3.03.2.9 If any space is left between the end of the tube and top of wax, the same shall be tightly packed with raw dust or any other suitable material. A close fitting bid or screwed cap shall then be placed on each end of the tube and held in position by adhesive tape.
- 3.03.3.0 Undisturbed Soil Samples from Trial Pits
- 3.03.3.1 Samples shall be obtained at specified depths from Trial Pits in a timber or steel box as under:



A benching shall be made at the level where it is proposed to take the sample. A cube of 30 cm size shall be formed by careful trimming with knife or any other suitable sharp instrument. A timber box having dimensions slightly larger than the soil cube shall be slipped on it so as to act as a container and the sample removed from the pit without causing any disturbance.

- 3.03.3.2 After recovery of the sample, all exposed faces shall be sealed with wax to prevent moisture loss and the sample shall be properly labeled and transferred to the laboratory immediately.
- 3.03.4.0 Disturbed Soil Samples

Disturbed soil samples shall be collected at every half a meter and at every change of strata from boreholes as well as from trial pits. Identification labels indicating depth. Borehole number and visual soil classification shall be affixed on the containers.

- 3.03.5.0 Water Samples
- 3.03.5.1 Samples of ground water shall be obtained from the specified boreholes at the depths specified by Engineer-in-Charge.
- 3.03.5.2 At the specified depth water shall be bailed or pumped out so that fresh ground water flows into the borehole. Care shall be taken in avoiding any contamination with surface water at any time. Water sample shall be collected in a five liter polythene or glass container and labeled properly.

4.00 LABORATORY TESTING OF SOILS

- 4.01 STORING OF SOIL SAMPLES IN LABORATORY
- 4.01.1.0 Soil samples shall be inspected and tested shortly after their arrival at the laboratory. Proper arrangement for storing shall be made in cases where testing of samples is not possible immediately after they are brought to the laboratory.
- 4.01.2.0 Bags of canvas, cans and bins can be used for storing large quantities of soil. The containers should have a label or tag which gives such data as soil type, project location, sampling date, boring number, sample depth, etc.
- 4.01.3.0 If the undisturbed clay samples are taken from pit, they should be covered with a protective coating. The coating shall preferably be with wax having melting point between 120° to 160°F. The wax coating can be applied by either dipping the soil sample in the melted wax or using a soft brush to spread the melted wax. Wax should not be heated to more than a few degrees above its melting temperature, since heating to higher temperatures tend to drive off more volatile hydro-carbons, thus making the wax more permeable and more brittle upon coating.
- 4.01.4.0 If the soil sample is to be stored for more than 15 days, a protective coating of wax, in more than one layer, is recommended with a total thickness of 12 mm to 18 mm.



4.01.5.0 A few selected soil samples shall be stored in the laboratory till the soil investigation report is finalized and approved by the Engineer.

4.02 HANDLING OF UNDISTURBED SAMPLES IN LABORATORY

- 4.02.1.0 The undisturbed samples shall be handled in the laboratory with due precaution to avoid disturbances and loss of moisture content which may adversely affect the test results.
- 4.02.2.0 Unprotected samples shall never be handled with bare hands because the hands foster disturbance and loss of moisture. The sample shall be protected by using Aluminium cellophane or wax paper before handling it.
- 4.02.3.0 When transporting a specimen, it should be supported over its entire length by using a mould, plate or paper sling.
- 4.02.4.0 A chunk from an undisturbed sample collected from pit shall be cut with a wire saw which consists of a frame with a piano wire stung tightly across it. Any wax or other covering used to protect the sample shall be cut with a knife or hacksaw. Care shall be taken when trimming the finished specimen. The wire in the wire saw used for final trimming shall be smaller in diameter than that used for preliminary cutting and the wire shall be cleaned prior to each cut.
- 4.02.5.0 In case of samples taken in sample tubes, the samples shall be extrude from their tubes by a steady pushing process and not by a jerky or driving one. Prior to extrusion, the plug which protects the end of the soil shall be removed by scrapping it with a knife or sawing off that portion of the tube which contains plug. The extrusion shall employ the same direction of motion or motion of the soil with respect to the tube as existed during sampling, because a reversal of stress tends to cause disturbance.
- 4.03 PROCEDURES OF TESTING
- 4.03.1.0 All apparatus used for laboratory testing shall conform to the specifications laid down in the relevant Indian Standards.
- 4.03.2.0 All testing procedures shall conform to those laid down in relevant Indian Standards.
- 4.03.3.0 For proper interpretation, results of each laboratory test shall be presented either as given in relevant Indian Standard or as specified in specific requirements.
- 4.03.4.0 Attenberg Limits

The tests result should include liquid limit and plastic limit of the soil samples tested. These tests should be conducted as per IS: 2720 Part V.

4.03.5.0 Natural Moisture Content

In case of organic soils, the oven temperature shall be 60 deg. C and not 105 deg.C.



4.03.6.0 Specific Gravity

This test should be conducted as per IS: 2720, Part 3.

4.03.7.0 Grain Size Distribution

Wherever applicable both the sieve and hydrometer analysis shall be conducted to indicate complete range of grain size in the soil sample tested. Generally, Hydrometer analysis will be carried out, wherever percentage passing No.200 sieve is greater than 30%.

4.03.8.0 Unconfined Compression Test

This test shall be conducted as per IS: 2720, Part X.

4.03.9.0 Free Swelling Index

This test shall be conducted as per IS: 2720, Part 40.

4.03.10.0 Swelling Pressure Test

This test shall be conducted as per IS: 2720, Part 41.

4.03.11.0 Consolidation Tests

The following loading stage shall be employed: 0, 0.1, 0.25, 1.0, 2.0, 4.0 and 8.0 kg / sq.cm. From e Vs log p curves, pre consolidation pressure shall be determined to establish whether the soil is normally consolidated or over consolidated. The point (e, p) showing initial condition of the soil under test must be specifically marked on the consolidation curves. Settlement predictions based on the field virgin compression curve shall only be acceptable. The procedure adopted in respect of obtaining compression indices from the field curve and that for computing settlements for the type of clay under consideration shall be clearly illustrated in the report. It is to be noted that deviations from the standard procedure of performing consolidation tests given in IS:2720 are permissible in order to enable computation of settlements based on the above procedure i.e. cycles (s) of loading, unloading and reloading shall be employed wherever required. The following curves shall be included in the report:

a) e vs. : log p

b) e vs. : p

c) Compression vs.: log t or compression vs t.

The choice of relationship depends upon the shape of the plot, which enables a clear determination of Cv, the coefficient of consolidation.

The time period required for 50% and 90% primary consolidation should be given in the report.

Computation of secondary settlements, if significant, shall also be made and included in the report.



4.03.12.0 Chemical Tests on Water & Soil

Chemical tests shall be conducted on soil and water samples to report the following:

SI. No.	Parameter
1.	рН
2.	Turbidity
3.	Total Suspended Solids(TSS)
4.	Total Dissolved Solids (TDS)
5.	Alkalinity as CaCO ₃
6.	Calcium Hardness as CaCO ₃
7.	Total Hardness as CaCO ₃
8.	Chlorides as Cl
9.	Sulphates as SO ₄
10.	Total Silica as SiO ₂
11	Colloidal Silica as SiO ₂
12	Reactive Silica as SiO ₂
13.	Total Iron as Fe
14.	Organic Matter as KMnO ₄
15.	Bacterial Count

4.03.13.0 Proctor Density Tests

These tests shall be conducted as per IS: 2720 Part VII samples collected randomly in consultation with Engineer-in-Charge.

5.0 REPORT

- 5.01 The report shall state in brief the description of the test procedures employed. It shall contain all field and laboratory test results.
- 5.02 The report shall also include wherever required a sample calculation with reference to formula used to evaluate the various parameters.
- 5.03 Report shall also contain the summary of various soil parameters evaluated, in a Performa as given in ANNEXURE- A enclosed.
- 5.04 Report shall contain character and genesis of soil.



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- 5.05 Detailed bore-logs, subsoil sections, laboratory and field test results both in tabular as well as in graphical form and a plot plan showing locations and reduced levels of bore holes and other tests.
- 5.06 Results obtained and their interpretation.
- 5.07 Recommendation for type, depth, ultimate and safe bearing pressure and settlement of foundations for the following structures:
 - i. Process units, power plants etc., which carry a heavy unit load.
 - ii. Non plant structures such as, substation, control room etc., which are lightly loaded.
 - iii. Other structures like base and retaining wall for mound, pipe rack, Pipe Bridge, pump foundations founded at or near ground surface.
- 5.08 Recommendations shall also be given for allowable bearing pressure and settlements for foundations of sizes ranging from 1 to 10 metres placed at different depths ranging from surface to 3 metres below the ground surface.
- 5.09 Aggressiveness of soil and soil water to reinforced concrete and steel and other building materials.
- 5.10 Suitability of soil and degree of compaction of fill for the pavement and tank farms and recommendation for thickness of pavement for class AA and Class A loadings.
- 5.11 Modulus of subgrade reaction for pressure ranging up to 3 Kg/cm². The recommended values shall include the effect of size, shape and depth of foundation.
- 5.12 In case of poor soil conditions recommendations are to be made for the following:
 - a. Ground improvement techniques, stabilizing slopes, etc. adopting internationally accepted norms and practices considering economy of foundation system. In case of ground improvement, type(s) of improvement method(s) recommended, depth of treatment and settlements and bearing capacity estimates after treatment shall be indicated.
 - b. Pile foundations, if considered necessary. If so, type(s) of pile recommended (bored/driven), depth of pile, depth of fixity, negative skin friction, and safe load capacity for different sizes of piles. Sample calculations showing load carrying capacity of both driven & bored pile to be included in the soil report.

All recommendations shall be supported by back up calculations.

5.13 Any other information of special significance encountered during investigation and likely to have a bearing on design and construction.



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- 5.14 Interim reports based on the data available shall be supplied to the Engineer-in-Charge at various stages of investigation for review/comments. Comments, if any, on these reports shall be duly incorporated in the final report.6 copies of final report along with soft copy to be submitted.
- 5.15 A set of longitudinal and transverse soil profile connecting various boreholes shall be presented in order to show the variation of soil stratum.

Borehole / Pit No.	, Depth in Metre	Brief Description	NMC (%)	Bulk Density (g/cc)	Dry Density g/cc)	Sp. GraviTy	Grai	n Size Di	stributio	on	Atte Li	rberg mit	Shear	Test	Consc T	lidation est		ो अर्ह जि G	: 9
							Gravel	Sand	Silt	Clay	LL	PL	с	Ø	Pr. Range	mv		EOTEC	
							(%)	(%)	(%)	(%)	(%)	(%)	(Kg/Cm ²)	(Deg.)	(Kg/Cm ²)	(Kg/Cm ²)	α	HNIC/	TECH
																	JALIA, JAMMU (J&K)	L / SOIL INVESTIGATION WORK AT	ICAL SPECIFICATION FOR
																	Sheet 18 of 18	DOCUMENT NO.	PC00192-TS-0201
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TITLE

SCOPE OF WORK FOR GEOTECHNICAL / SOIL INVESTIGATION WORK AT BAJALTA, JAMMU (J&K)

PROJECT

CONSTRUCTION OF GRASS ROOT POL CUF (COMMON USER FACILITIES) DEPOT AT BAJALTA, JAMMU (J&K)

OWNER BHARAT PETROLEUM CORPORATION LIMITED JAMMU

ENGINEERING CONSULTANT PROJECTS & DEVELOPMENT INDIA LIMITED VADODARA

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2.	Scope of work	3	
3.	Site Cleaning	4	



1.0 GENERAL

- 1.1 This section of the tender Documents deals mainly with the Brief Scope for conducting Geotechnical /Soil investigation work at BAJALTA, JAMMU (J&K)
- 1.2 Bharat Petroleum Corporation Limited, Jammu, is proposing for Capacity augmentation of facilities at the above mentioned Terminal for making it fully OISD compliant and also meeting other statuary requirements.
- 1.3 The Proposed Soil Investigation work is inside the BPCL Jammu Terminal as per Plot Plan.
- 1.4 Key plan showing location of bore-hole and other site investigation tests is attached for reference Drg no. PC00192-5211-0200.

2.0 SCOPE OF WORK

- 2.1 The scope of work, not limited to, consists of Geotechnical / Soil Investigation work carrying out at site and at laboratory various soil tests to arrive at the following:
 - a) Depth below the ground level at which the foundation system is to be laid.
 - b) Type of foundation system for:
 - Storage Tank foundation
 - Control room, Admin Building & Pump House/sheds
 - Pipe rack/pipe support
 - RCC culvert
 - Pump foundation
 - Support for other related utilities
 - c) Access the degree of compaction of the filled layers and recommend the SBC on the foundation levels. Suggest the type of pile with diameter and pile capacity in compression, tension & lateral etc., if applicable
 - All soil dynamic parameters for design of foundation for vibratory equipments.



- cBR for design of RCC road/pavement and suggestive soil improvement technique, if required.
- f) Sample calculation for all arrived soil parameters i.e. pile capacity (if applicable), SBC, etc.
- g) Type of cement and the type of rebar to be used depending on soil and water properties like suplhate and chloride content.
- Providing Methodology of Ground Improvement in all respect required in case of liquefaction effect on soil during Earthquake.
- Recommendation for provision of steeper slopes to be suggested so as to lessen the horizontal distance of the slope to cover a level difference of max 28m from NGL at some locations.
- 2.2 The scope of work under this includes supervision through qualified and technical personnel, skilled and unskilled labor, etc. and mobilization of all relevant and adequate plants, tools and tackles equipment, machineries, etc., to carry out all works for successful completion of the job. All the works shall be carried out strictly in accordance with the "Technical Specifications" enclosed with this document.
- 2.3 The scope of work covered under soil investigation work includes setting out of bore hole location as per drawing, field investigation, laboratory testing and submission of soil investigation report incorporating the observations made during the field investigation and result of laboratory tests, analysis of all results, foundation recommendations with calculation and other related information along with necessary charts, curves and drawings and submission of draft and final report as per SOR.
- 2.4 The scope of work is defined in general and is not limited to above, Bidder has also to carry out job which is not listed here but required for Completion of Works.
- 2.5 Payment shall be as per item rate quoted by the successful bidder in the SOR. Bidder to access the job in totality and any field/lab test required, but not mentioned in SOR, is to be carried out for completion of the work and no extra payment shall be made for such jobs.



- 2.6 All recommendations in the soil investigation report are to be to be backed up by proper calculations, references and justifications.
- 2.7 The tender demands for total of 15 bore hole of 25m each to be performed at site. Out of which 5 bore holes are envisaged to be performed immediately within 1 month from issue of LOI / PO. At this juncture approx. half of the ongoing filling activity will be completed at site. These 5 bore holes shall suggest the degree of compaction & SBC. If the filing is not proper, remedial measures to mitigate the same is to be suggested/recommended. The rest 10 bore holes are to be performed after hand over of site by the ongoing Land Development job by the said contractor. This is expected to be finished by June 2022. The completion time for this project is to be considered as 31st July 2022. After this a final report comprising of all the required scope of work, asked for in the tender is to be submitted. The location and these 5 and 10 bore holes shall be as directed by the BPCL/PDIL Engineer-in-charge at Jammu site. Tentative locations are given in attached tender drg.

3.0 SITE CLEANING

During investigation and on completion of investigation clearing all the debris and waste materials scattered around the site and disposal of the same as per direction of the Engineer-in-Charge, shall be in the scope of the Contractor.



TITLE

SCHEDULE OF RATES FOR GEOTECHNICAL / SOIL INVESTIGATION WORK AT BAJALTA, JAMMU (J&K)

PROJECT

CONSTRUCTION OF GRASS ROOT POL CUF (COMMON USER FACILITIES) DEPOT AT BAJALTA, JAMMU (J&K)

OWNER

BHARAT PETROLEUM CORPORATION LIMITED JAMMU

ENGINEERING CONSULTANT

PROJECTS & DEVELOPMENT INDIA LIMITED VADODARA

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DESCRIPTION OF ITEMS

DOCUMENT NO REV SHEET 2 OF 4 UNIT RATE IN FIGURES IN WORDS

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PC00192-5211-

0940

A. GEOTECHNICAL SURVEY

SL.NO.

В	GEOTECHNICAL / SOIL INVESTIGATION WORK						
	1. The Contractor shall note that the supply of Manpower, arranging precise instruments,						
NOTES	cutting of wild, bushes, etc. required for	proper exe	cution of th	e work, sh	all be their		
	responsibility.						
	2. The Contractor shall note that the supply / procurement of all the materials, required for						
	the job, shall be their responsibility of the Cor	ntractor.					
	3. The Contractor shall inspect and examin	ne the site	and its surro	unding and	shall satisfy		
	himself before submitting his bid as to the fo	orm and nat	ure of the sit	e, the quant	tum and the		
	nature of work and material necessary for su	ccessful cor	npletion of th	ne works and	d the means		
	of access to site and in general shall himse	elf obtain a	ll necessary	information	as to risks,		
	contingencies and other circumstances whic	h may influ	ence or affeo	ct his Tende	r. Under no		
	circumstances, extra payment consequent or	n any misun	derstanding o	or otherwise	on the part		
	of the Contractor shall be allowed.				2012 000 0000		
	4. The Contractor may required to collect U	JCS for pile	design when	encounter w	vith rock. No		
	extra payment shall be made against this wor	k.					
	5. Quantities indicated in SOR may vary at s	site. Paymer	nt shall be ma	ide on actua	l quantity of		
	work executed.				(
	Mobilization of necessary plant /						
	equipment, personnel and materials at site,						
	shifting the same from place to place	Lump sum	1.00				
	complete in all respect for carrying out						
	GEOTECHNICAL investigation work for the						
A-01	specified area as shown in the drawings						
	and as per enclosed scope of work,						
	specifications and direction of Engineer-in-						
	Charge within the stipulated time schedule						
	and demobilization after completion of						
	Tield Work						
	Making 150 mm. nominal diameter						
	soil including disintegrated (weathered				*		
	rocks using suitable approved method of						
	boring including chiseling, cleaning						
	providing casing nine as required or as						
A_02	directed by the Engineer-in-Charge	Meter	375.00				
A-02	including collection of water samples and	meter	575.00				
	disturbed soil samples observation of	-					
	ground water table etc. transportation of						
	all the collected samples to the laboratory						
	and back filling of bore holes on completion						
	of the same, complete in all respect as per						
A-01	Mobilization of necessary plant / equipment, personnel and materials at site, shifting the same from place to place complete in all respect for carrying out GEOTECHNICAL investigation work for the specified area as shown in the drawings and as per enclosed scope of work, specifications and direction of Engineer-in- Charge within the stipulated time schedule and demobilization after completion of field work Making 150 mm. nominal diameter boreholes at various locations in all types of soil including disintegrated / weathered rocks using suitable approved method of boring including chiseling, cleaning, providing casing pipe as required or as directed by the Engineer-in-Charge including collection of water samples and disturbed soil samples, observation of all the collected samples to the laboratory and back filling of bore holes on completion of the same, complete in all respect as per	Lump sum Meter	1.00				

Name of Contractor

Signature of Contractor

	SCHEDULE OF RATE	S FOR		PC00192-5211-		
पा डा आइ एत	GEOTECHNICAL / SOIL INVEST	IGATION	WORK	DOCUME	DOCUMENT NO	
PDIL	AT BAJALTA, JAMMU	(J&K)		SHEET	C 3 OF	4
SL.NO.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	UNIT RATE IN FIGURES	UNIT R	ATE
	scope of work, specifications and direction of Engineer-in-Charge for depth from natural ground level to 25.0 M depth. There are Fifteen bore holes of 25.0m depth.					
A-03	Collecting 100 mm nominal dia. undisturbed soil samples at every 1.0M interval up to 3.0M and at every 2.0M interval beyond 3.0M and at the change of strata from the bore holes at various locations and transporting all the collected samples to the laboratory for specified tests, complete in all respect as per scope of work and specifications and direction of Engineer-in-Charge.	EACH	210.00		77	
A-04	Performing Standard Penetration tests in the bore holes at specified interval and at the change of strata complete in respect as per specifications and direction of the Engineer-in-Charge.	EACH	210.00			
A-05	Collecting ground water samples from bore holes and transporting the same to the laboratory as per the scope of work, specification and direction of Engineer-in- Charge.	EACH	15.00			
A-06	Conducting Various laboratory tests on soil samples at an approved laboratory including preparation of soil samples to determine the following properties of soil, complete in all respect as per scope of work and specifications:	=	=	=	=	
	A) Natural Water Content	EACH	210.00			
	B) Bulk and Dry Density	EACH	210.00			
	C) Specific Gravity and Void Ratio	EACH	15.00			
	D) Liquid Limit and Plastic Limit	EACH	210.00			
	E) Grain Size Analysis :	=	=	=	=	
11	i) Sieve Analysis	EACH	210.00			
	ii) Hydrometer Analysis	EACH	15.00			
	F) Unconfined Compression Test	EACH	15.00			
	G) Direct Shear Test	EACH	15.00			
	H) Triaxial Shear Tests	EACH	15.00			
	i) Unconsolidated Undrained Test	EACH	15.00			

Name of Contractor

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Signature of Contractor

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PDIL	AT BAJALTA, JAMMU	(J&K)		DOCUME		REV
SL.NO.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	UNIT RATE IN FIGURES	UNIT R	4 ATE RDS
	I) Consolidation Test	EACH	15.00		1	
	J) Swelling Pressure Test	EACH	15.00			
	K) Shrinkage Limit Test	EACH	15.00			
	L) Proctor Density Test	EACH	15.00			
	M) Differential free swell index test	EACH	15.00			
A-07	Conducting Chemical Test on soil Conducting Chemical Test on soil samples to determine pH Value, Sulphate Content and Chloride Content.	EACH	15.00			
A-08	Conducting Chemical Test on ground water samples to determine pH value, Sulphate content and chloride content.	EACH	15.00			
A-09	Conducting Electrical Resistivity test at locations within plot area, complete in all respects as per scope of work and specifications and direction of Engineer-in- charge.	EACH	8.00			
A-10	In-Situ California Bearing Ratio Test	EACH	4.00			
A-11	Submitting Draft / Interim Report in 3 (three) copies and Final Report in 3 (three) copies after the approval of Draft / Interim Report including all field records and laboratory test results, graphs, recommendations etc. for area wise / depth wise, complete in all respect as per scope of work and specifications. If pile is required, Then Type of pile, diameter and depth of pile. Depth of fixity, Pile capacity (in Compression, Tension & lateral Shear) & Structural details. This item also includes the rate for submission of step by step Methodology of Ground Improvement in all respect required in case of liquefaction effect on soil during Earthquake at Proposed Site. The report shall also include recommendation for stabilizing soil slope at 45 degree to 75 degree for max height of 30m.	Lump sum	1.00			
	GRAND TOTAL					

Signature of Contractor

Signature of Owner

Name of Contractor

Signature of Contractor

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	SCHEDULE OF RATES FOR	DOCUMENT NO.		DOCUMENT NO. SHEET NO RE		REV DEPARTMENT	
पीडी आई एल PDIL	GEOTECHNICAL INVESTIGATION WORK AT BAJALTA, JAMMU (J&K)	PC001	192-SOR-0201	1 OF 2	0	CIVIL	
SL.NO.	Description of Items	UNIT	QUANTITY	UNIT RATE (INR)		TOTAL PRICE (INR)	
A	GEOTECHNICAL / SOIL INVESTIGATION INVESTIGATION WORK he Contractor shall note that the supply of Manpower, arranging precise instruments, cutting of						
2	wild, bushes, etc. required for proper execution of the work, shall be their responsibility. The Contractor shall note that the supply / procurement of all the materials, required for the job, shall be their responsibility of the Contractor.						
3	The Contractor shall inspect and examine the site and its surrounding and shall satisfy himself before submitting his bid as to the form and nature of the site, the quantum and the nature of work and material necessary for successful completion of the works and the means of access to site and in general shall himself obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect his Tender. Under no circumstances, extra payment consequent on any misunderstanding or otherwise on the part of the Contractor shall be allowed.						
4	The Contractor may required to collect UCS for pile design when encounter with rock. No extra payment shall be made against this work.						
5	Quantities indicated in SOR may vary at site. Payment shall be made on actual quantity of work executed.						
	Description of Items	UNIT	QUANTITY	UNIT RATE (INR)		TOTAL PRICE (INR)	
	Mobilization of necessary plant / equipment, personnel and materials at site, shifting the same from place to place complete in all respect for carrying out GEOTECHNICAL investigation work			RS. (In Figure)i Bid	in Price RS. (I Bid	n Figure)in Price	
A-01	and direction of Engineer-in-Charge within the stipulated time schedule and demobilization after	Lumpsum	1.00	RS. (In Words)	RS. (n Words)	
	completion of field work			in Price Bid		in Price Bid	
	Making 150 mm. nominal diameter boreholes at various locations in all types of soil including disintegrated / weathered rocks using suitable approved method of boring including chiseling, cleaning, providing casing pipe as required or as directed by the Engineer-in-Charge including callesting of ground users and disturbed on a sentence becamering of ground water table of a			RS. (In Figure)i Bid	in Price RS. (I Bid	n Figure)in Price	
A-02	transportation of all the collected samples to the laboratory and back filling of bore holes on completion of the same, complete in all respect as per scope of work, specifications and direction	Meter	375.00	RS. (In Words)	RS. (n Words)	
	of Engineer-in-Charge for depth from natural ground level to 25.0 M depth. There are Fifteen bore holes of 25.0 m depth.			in Price Bid		in Price Bid	
	Collecting 100 mm nominal dia. undisturbed soil samples at every 1.0M interval up to 3.0M and at every 2.0M interval bevond 3.0M and at the chance of strata from the bore holes at various	00 mm nominal dia. undisturbed soil samples at every 1.0M interval up to 3.0M and at interval beyond 3.0M and at the change of strata from the bore holes at various d transporting all the collected samples to the laboratory for specified tests, complete t as per scope of work and specifications and direction of Engineer-in-Charge.		RS. (In Figure)i Bid	in Price RS. (I Bid	n Figure)in Price	
A-03	locations and transporting all the collected samples to the laboratory for specified tests, complete in all respect as per scope of work and specifications and direction of Engineer-in-Charge.		210.00	PS (In Words)	RS (n Words)	
				in Price Bid		in Price Bid	
	Performing Standard Penetration tests in the bore holes at specified interval and at the change of strata complete in respect as per specifications and direction of the Engineer-in-Charge.		RS. (In Figure)i Bid	in Price RS. (I Bid	n Figure)in Price		
A-04		LACIT	210.00				
				in Price Bid		in Price Bid	
4.05	Collecting ground water samples from bore holes and transporting the same to the laboratory as	E I CIU	45.00	RS. (In Figure)i Bid	in Price RS. (I Bid	n Figure)in Price	
A-05	per the scope of work, specification and direction of Engineer-in-Charge.	LACIT	13.00	RS. (In Words)	RS. (n Words)	
				in Price Bid		in Price Bid	
A-06	Conducting Various laboratory tests on soil samples at an approved laboratory including preparation of soil samples to determine the following properties of soil, complete in all respect as per scope of work and specifications:	=	=				
	A) Natural Water Content	EACH	210.00	RS. (In Figure)i Bid	in Price RS. (I Bid	n Figure)in Price	
				RS. (In Words) Price Bid	in RS. (I Price	n Words) in Bid	
				RS. (In Figure)i Bid	in Price RS. (I Bid	n Figure)in Price	
	B) Bulk and Dry Density	EACH	210.00	RS. (In Words) Price Bid	in RS. (I Price	n Words) in Bid	
				RS. (In Figure)i	in Price RS. (I	n Figure)in Price	
	C) Specific Gravity and Void Ratio	EACH	15.00	RS. (In Words)	in RS. (n Words) in	
				Price Bid	Price	Bia	
	D) Liquid Limit and Plastic Limit	EACH	210.00	Bid	Bid	In Figure) In Price	
				RS. (In Words) Price Bid	in RS. (I Price	n Words) in Bid	
	E) Grain Size Analysis :	=	=	RS. (In Figure)	in Price PS /	n Figure) in Price	
	i) Sieve Analysis	EACH	210.00	Bid	Bid		
				RS. (In Words) Price Bid	in RS. (Price	n Words) in Bid	
				RS. (In Figure)i Bid	in Price RS. (I Bid	n Figure)in Price	
	ii) Hydrometer Analysis	EACH	15.00	RS. (In Words)	in RS. (n Words) in	
				Price Bid	Price	Bid	

	SCHEDULE OF RATES FOR	DOCUMENT NO.		DOCUMENT NO.		SHEET NO	R	EV	DEPARTMENT
पीडी आई एल PDIL	GEOTECHNICAL INVESTIGATION WORK AT BAJALTA, JAMMU (J&K)	PC00	192-SOR-0201	1 OF 2		0	CIVIL		
SL.NO.	Description of Items	UNIT	QUANTITY	UNIT RATE (INR))		FOTAL PRICE (INR)		
				RS. (In Figure) Bid	in Price	RS. (In F Bid	igure)in Price		
	F) Unconfined Compression Test	EACH	15.00	RS. (In Words) Price Bid	in	RS. (In V Price Bio	/ords) in 1		
				RS. (In Figure) Bid	in Price	RS. (In F Bid	igure)in Price		
	G) Direct Shear Test	EACH	15.00	RS. (In Words) Price Bid	in	RS. (In V Price Bio	/ords) in 1		
	H) Trinid Shar Tota	EACH	15.00	RS. (In Figure) Bid	in Price	RS. (In F Bid	igure)in Price		
		DACH	13.00	RS. (In Words) Price Bid	in	RS. (In V Price Bio	/ords) in វ		
	i) Unconsolidated Undrained Test	FACH	15.00	RS. (In Figure) Bid	in Price	RS. (In F Bid	igure)in Price		
			15.00	RS. (In Words) Price Bid	in	RS. (In V Price Bio	/ords) in 1		
		БАСН	15.00	RS. (In Figure) Bid	in Price	RS. (In F Bid	igure)in Price		
	· · · · · · · · · · · · · · · · · · ·			RS. (In Words) Price Bid	in	RS. (In V Price Bio	/ords) in 1		
	.i) Swelling Pressure Test	EACH	15.00	RS. (In Figure) Bid	in Price	RS. (In F Bid	igure) in Price		
		Exert	15.00	RS. (In Words) Price Bid	in	RS. (In V Price Bio	/ords) in 1		
	K). Shrinkaqe Limit Test	EACH	15.00	RS. (In Figure) Bid	in Price	RS. (In F Bid	igure)in Price		
				RS. (In Words) Price Bid	in	RS. (In V Price Bio	/ords) in 1		
	L) Proctor Density Test	FACH	15.00	RS. (In Figure) Bid	in Price	RS. (In F Bid	igure)in Price		
				RS. (In Words) Price Bid	in	RS. (In V Price Bio	/ords) in j		
	M) Differential free swell index test	EACH	15.00	RS. (In Figure) Bid	in Price	RS. (In F Bid	igure)in Price		
				RS. (In Words) Price Bid	in	RS. (In V Price Bio	/ords) in 1		
A-07	Conducting Chemical Test on soil Conducting Chemical Test on soil samples to determine pH	FACH	15.00	RS. (In Figure) Bid	in Price	RS. (In F Bid	igure)in Price		
	Value, Sulphate Content and Chloride Content.			RS. (In Words) Price Bid	in	RS. (In V Price Bio	/ords) in 1		
	Conduction Chemical Test on ground water samples to determine pH value. Subbate content and			RS. (In Figure) Bid	in Price	RS. (In F Bid	igure)in Price		
A-08	chloride content.	EACH	15.00	RS. (In Words) Price Bid	in	RS. (In V Price Bio	/ords) in 1		
4.00	Conducting Electrical Resistivity test at locations within plot area, complete in all respects as per	EACH.	15.00	RS. (In Figure) Bid	in Price	RS. (In F Bid	igure)in Price		
A-09	scope of work and specifications and direction of Engineer-in-charge.	EACH	15.00	RS. (In Words) Price Bid	in	RS. (In V Price Bio	/ords) in 1		
				RS. (In Figure) Bid	in Price	RS. (In F Bid	igure)in Price		
A-10	In-Situ California Bearing Ratio Test	EACH	4.00	RS. (In Words) Price Bid	in	RS. (In V Price Bio	/ords) in 1		
A-11	Submitting Draft / Interim Report in 3 (three) copies and Final Report in 3 (three) copies after the approval of Draft / Interim Report including all field records and laboratory test results, graphs, recommendations etc. for area wise / depth wise, complete in all respect as per scope of work and specifications. If pile is required, Then Type of pile, diameter and depth of pile. Depth of fixity, Pile construct (in Compression Teacing & Interim Scher) & Constructed with Table and the pile of the pile	Lumpsum	1.00	RS. (In Figure) Bid	in Price	RS. (In F Bid	igure)in Price		
	capacity (in Compression, Tension & lateral Shear) & Structural details. This item also includes the rate for submission of step by step Methodology of Ground Improvement in all repect required in case of liquification effect on soil during Earthquake at Propsed Site (i.e. IOCL Visakhapatnam Terminal)			RS. (In Words) Price Bid	in	RS. (In V Price Bio	/ords) in 1		
	TOTAL AMOUNT								
	GST EXTRA @% (CGST@% + SGST@%)								
	GRAND TOTAL(Including GST)								



This ACTC should be duly filled and to be **Submitted** alongwith unpriced offer:

SL.	DESCRIPTION	BIDDER'S CONFIRMATION / ACCEPTANCE
1.0	BIDDER'S NAME & ADDRESS with Telephone & FAX no., Name of Contact Person, Email ID	
1.1	BIDDER'S OFFER NO. & DATE	
20	Confirm Submission of Earnest Money Deposit OR MSME/NSIC	
	document as per Clause 2.2 of Annexure-II of ITB.	
3.0	Annexure-I, in respect of PQC.	
4.0	Confirm submitted Price Confirmation Copy (Unpriced Schedule) - A copy of Priced offer(Annexure-V), keeping price blank (hiding the price) and in place indicating "Quoted" or " $$ ", as a confirmation of price quoted against the enquired item and all applicable Taxes & Duties along with un-priced techno commercial bid.	
5.0	Confirm acceptance of TECHNICAL ENQUIRY SPECIFICATIONS & Terms & Conditions as per Annexure-IV of ITB.	
6.0	Confirm acceptance of Commercial Terms & Conditions of ITB as per GCC (ANNEXURE-IIIB) and SCC (Annexure-IIIC).	
7.0	COFIRMATION OF FOLLOWING TERMS AND CONDITIONS:	=================
7.1	Confirm PRICE BASIS – The QUOTED PRICE based on duly executed the Job on PDIL's Project site at BPCL, Jammu Basis, as per ITB and shall be FIRM and inclusive of all as per Clause No.2.0 & 2.1 of Annexure-IIIC of ITB.	
7.2	GST shall be Extra as Applicable as per law, Indicate Present applicable rate in percentage (%).	SGST Extra @% CGST Extra @% OR IGST Extra @%
7.2.1	Indicate Service Accounting Code (SAC) for tendered Services	
7.2.3	Please Note & Confirm that in case, PDIL is eligible to avail Input TAX Credit (ITC) against-payment of GST, the credit amount will be considered while evaluating the price to arrive at the net landed cost for which necessary documents shall be provided by the bidder to enable PDIL to avail the credit.	
7.2.4	Confirm the Work Completion period/ Contractual Period, as per ITB.	
7.2.5	Indicate GST REGISTRATION No. (Enclose copy of Certificate)	
7.2.6	In Case GST is not applicable, Confirm that you are not coming under the purview of GST Registration.	
7.3	Confirm acceptance of PAYMENT TERMS AS PER ITB.	
7.4	Indicate PAN Card No. <i>(Enclose copy)</i>	
7.4.1	In Case submitted PAN card is in Individual name, Please Confirm that the person whose name is indicated on PAN card is "SOLE PROPRIETOR" of the company and note that income from the subject contract shall be under the indicated PAN No.	
7.5	Confirm PERFORMANCE SECURITY AS PER ITB	
7.6	Confirm acceptance of VALIDITY of Offer (90 Days from technical Bid opening date)	
7.7	We hereby Confirm that we are neither put on holiday nor Black-Listed by any Government/PSU/Private Firm or Financial Institution and a self declaration on our letterhead (as per Annexure-VII) regarding the above has been submitted with unpriced bid.	
7.8	CONFIRM THAT The invitation to Bid together with all its attachments thereto shall be considered to be read, understood and accepted by the Bidder while submitted their offer.	
7.9	It is confirmed that in case any of the TERMS & CONDITIONS mentioned in this Summary are at variance with those indicated anywhere else in our offer, the conditions indicated in this summary shall prevail.	



(To be submitted on Bidder's Letterhead as per below performa)

DECLARATION

To, Projects & Development India Ltd., Vadodara-390023

Subject : ITB No.	Dt
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Sir,

We hereby declare that M/s ______ is neither put on holiday nor Black-Listed by any Government/PSU/Private Firm or Financial Institution.

Signature:

Name:

Designation:

Seal of the Bidder:



(To be submitted on Bidder's Letterhead as per below performa)

DECLARATION FOR BID SECURITY

To,

Projects & Development India Ltd.,

Vadodara-390023

Subject: BID SECURITY DECALARATION.

Ref. ITB No. _____ Dt. _____

Sir,

We _____(Name of the Bidder) hereby declare and accept that we will be suspended for 02 (two) years, if we withdraw or modify our Bid during its validity Or in the event of Order if we fail to sign the contract, or submit a Performance Security as defined in the bid document or refuse to execute the Contract/Order.

Place:

Date

[Signature of Authorized Signatory of Bidder]

Name:

Designation:

Seal of the Bidder:



Date:

Τo,

Projects & Development India Ltd. PDIL, Bhawan, Samta, Subhanpura, Vadodara-390 023. Gujarat.

Dear Sir,

With reference to your letter/E-mail, we hereby agree to accept the payment of our bills through "EFT/RTGS/Internet". The bank account details are as given below:

1	Beneficiary's Name	
2	Name of the Bank (to which payment should be sent)	
3	Branch name	
4	Address of the Branch	
5	STD Code No. and Telephone no. of Branch	
6	Branch Code	
7	9 digit code no. of Bank & Branch as appearing on the MICR cheque (copy of cancelled cheque must be enclosed.)	
8	Bank account number (As appearing on the cheque book)	
9	Account type (SB/CA/CC)	
10	Branch IFSC Code (Applicable only for RTGS payments)	
11	Copy of blank cancelled cheque or photocopy of a cheque for verifying the accuracy of the 9digit code number to be enclosed.	

A blank cancelled cheque leaf relating to the above bank account is enclosed for verifying the accuracy of the bank account details.

I hereby declare that the particulars given above are correct and complete.

(Signature of Account Holder) Seal of the Vendor

Encl : Cancelled Cheque No.

**** We hereby confirm that the above bank account details of beneficiary are correct in all respects and the account of Beneficiary (PDIL vendor) is maintained at our bank branch .

(Name of Bank & Branch)

Authorized Signatory

**** Verification required only in case vendors name is not printed/appearing on the cancelled cheque leaf being submitted to PDIL office.



In Case of Order, the contractor shall provide the below information <u>for updating Award of</u> <u>Contract at CPP Portal (e-publishing)</u>, without fail.

SI	PARTICULARS	BIDDER'S COMMENTS
1.0	CONTRACTOR'S/COMPANY NAME	
2.0	CONTACT PERSON	
3.0	CONTACT PERSON'S DATE OF BIRTH	
4.0	COMPANY's REGISTRATION NO.	
5.0	COMPANY'S REGISTERED ADDRESS	
6.0	COMPANY'S ESTABLISHMENT YEAR	
	COMPANY'S NATURE OF RUSINESS With	MANUFACTURER
7.0	regard to Tendered Item	SERVICE PROVIDER
		TRADER
		LIMITED
		UNDERTAKING
8.0	(TICK $\sqrt{1}$ appropriate option)	JOINT VENTURE
		PARTNERSHIP
		OTHERS
		MICRO
		SMALL
	COMPANY CATEGORY	MEDIUM
9.0	(TICK √ appropriate option)	ANCILLARY UNIT
		PROJECT AFFECTED PERSON OF THIS COMPANY
		SSI
		OTHERS
10.0	With reference to GOI Gazette Notification No.503	
	dt.26.03.12, Please confirm whether you are	
	under MSMED Act 2006 and submit documentary	
	evidence in this respect.	
11.0	Further to Above, If you are MICRO & SMALL	
	2006 and OWNED BY SC/ST ENTREPRENEURS,	
	please confirm and submit documentary evidence	
40.0	issued by government authority in this respect.	
12.0	Gazette Notification No.5670(E) dt.09.11.18. If vou	
	OWNED BY OWMEN ENTREPRENEURS registered	
	under MSMED Act., please confirm and submit	
	in this respect.	

DATE :

AUTHORISED SIGNATORY OF THE BIDDER with Official Seal