



SEMI-CONDUCTOR LABORATORY

Ministry of Electronics and Information Technology
Government of India

Sector 72, S.A.S. Nagar – 160 071, Punjab, India

Phone: 0091 172 2296100/200/300/400 (Ext. 6183/6174)

E-mail: harjeet@scl.gov.in/ashutosh.gaur@scl.gov.in

INVITATION TO TENDER

E-tender /Online bid is invited for “**SUPPLY INSTALLATION COMMISSIONING AND TESTING OF DIESEL ENGINE DRIVEN FIRE PUMP AND OTHER ITEMS**”, in accordance with the purchaser's tender specifications. The invitation to tender, tendering conditions, general conditions of contract, special conditions of contract and additional conditions of contract, if any, which will govern the contract pursuant to tender are attached.

Bidders interested to submit bid are requested to go through the contents of this document and ensure that the bid is submitted online on or before the due date and time indicated in NIT and as per technical specifications and terms and condition indicated herein.

Please note all bid related documents scanned copy is to be submitted on the online portal, only EMD has to reach physical on mentioned address. (If applicable)

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Public Tender Enquiry

Tender Document

For

**SUPPLY INSTALLATION COMMISSIONING AND TESTING
OF DIESEL ENGINE DRIVEN FIRE PUMP AND OTHER ITEMS
TENDER NO.: SCL/PS/64466/FSD/2025**

TENDER INVITING AUTHORITY

**SEMI-CONDUCTOR LABORATORY
MINISTRY OF ELECTRONICS AND
INFORMATION TECHNOLOGY
GOVERNMENT OF INDIA
SECTOR 72, SAS NAGAR MOHALI
PUNJAB – 160 071**

Tel. No. 0091 172 2296183 / 2296174

Email: harjeet@scl.gov.in/ashutosh.gaur@scl.gov.in

TENDER NO.: SCL/PS/64466/FSD/2025

BID SCHEDULE

Online bid invited for and on behalf on SCL, S.A.S Nagar, Punjab

Name of Work	SUPPLY INSTALLATION COMMISSIONING AND TESTING OF DIESEL ENGINE DRIVEN FIRE PUMP AND OTHER ITEMS
Date of Publishing	19.02.2025 (17.00 hrs.)
Clarification Start Date and Time	19.02.2025 (17.05 hrs.)
Clarification End Date and Time	28.02.2025 (11:00 hrs)
Queries (if any)	No queries will be entertained after clarification end date and time
Bid Submission Start Date	19.02.2025 (17:10 hrs.)
Last Date and time of uploading of Bids	17.03.2025 (11:00 hrs.)
Date and time of opening of Bid	18.03.2025 (11:30 hrs.)
Date and time of opening of Financial Bids	Shall be intimated through CPP Portal after completion of technical evaluation.

Interested parties may view and download the tender document containing the detailed terms & conditions from the website <https://eprocure.gov.in/eprocure/app>

(The bids have to be submitted online in electronic form on www.eprocure.gov.in only. No physical bids will be accepted.)

INSTRUCTION FOR ONLINE BID SUBMISSION

The bidders are required to submit softcopies of their bids electronically on the Central Public Procurement (CPP) Portal i.e. <https://eprocure.gov.in/eprocure/app>, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

REGISTRATION

- (i) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal ([URL:https://eprocure.gov.in/eprocure/app](https://eprocure.gov.in/eprocure/app)) by clicking on the link "Online Bidder Enrolment" option available on the home page. **Enrolment on the CPP Portal is free of charge.**
- (ii) During enrolment/registration, the bidders should provide the correct/true information including valid email-id & mobile no. All the correspondence shall be made directly with the contractors/bidders through email-id provided.
- (iii) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- (iv) Any bidder from a country which shares a land borders with India will be eligible to bid in any procurement whether of goods, services (including consultancy services and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with the competent authority as mentioned in the GFR 2017 Rule 144(xi).
- (v) For e-tendering possession of valid Digital Signature Certificate (Class III Certificates with signing key usage) is mandatory which can be obtained from SIFY /nCode/eMudra or any Certifying Authority recognized by CCA India on e-Token/Smartcard.
- (vi) Upon enrolment on CPP Portal for e-tendering, the bidders shall register their valid Digital Signature Certificate with their profile.
- (vii) Only one valid DSC should be registered by a bidder. Bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse and should ensure safety of the same.
- (viii) Bidders can login to the site through the secured login by entering their user ID/password and the password of the DSC/ e-Token.

SEARCHING FOR TENDER DOCUMENTS

- 1) There are various search options built in the CPP Portal to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, organization name, location, date, value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords, etc., to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS:

- (i) For preparation of bid, Bidders shall search the tender from published tender list available on site and download the complete tender document and should take into account corrigendum if any published before submitting their bids.
After selecting the tender document same shall be moved to the 'My favorite' folder of bidders account from where bidder can view all the details of the tender document.
- (ii) Bidder shall go through the tender document carefully to understand the documents required to be submitted as part of the bid. Bidders shall note the number of covers in which the bid documents have to be submitted, the number of documents – including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- (iii) Any pre-bid clarifications if required, then same may be obtained on line through the tender site, or through the contact details given in the tender document.
- (iv) Bidders should get ready in advance the bid documents in the required format (PDF/xls/rar/dwf/jpg formats) to be submitted as indicated in the tender document/schedule.
- (v) Bidders can update well in advance, the documents such as experience certificates, annual report, PAN, EPF & other details etc., under "My Space/ Other Important Document" option, which can be submitted as per tender requirements. This will facilitate the bid submission process faster by reducing upload time of bids.

SUBMISSION OF BIDS:

- (i) Bidder should log into the site well in advance for bid submission so that he/ she upload the bid intime i.e. on or before the bid submission time. Bidder will be responsible for any delay.
- (ii) Bidder should prepare the EMD as per the instructions specified in the NIT/tender document. The details of the DD/BC/BG/ others physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- (iii) While submitting the bids online, the bidder shall read the terms & conditions (of CPP portal) and accepts the same in order to proceed further to submit their bid.
- (iv) Bidders shall select the payment option as offline to pay the EMD and enter details of the DD/BC/BG/others.
- (v) Bidder shall digitally sign and upload the required bid documents one by one as indicated in the tender document.
- (vi) Bidders shall note that the very act of using DSC for downloading the tender document and uploading their offers is deemed to be a confirmation that they have read all sections and pages of the tender document without any exception and have understood the complete tender document and are clear about the requirements of the tender document.
- (vii) **If price quotes are required in XLS format, utmost care shall be taken for uploading Schedule of quantities & Prices and any change/modification of the price schedule shall render it unfit for bidding.**
Bidders shall download the Schedule of Quantities & Prices i.e. Schedule-A, in XLS format and save it without changing the name of the file. Bidder shall quote their rate in figures in the appropriate cells, thereafter save and upload the file in financial bid cover (Price bid) only.
If the template of Schedule of Quantities & Prices file is found to be modified/corrupted in the eventuality by the bidder, the bid will be rejected and EMD if any shall be forfeited.
- (viii) Bidders shall submit their 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.**

- (ix) After the bid submission (i.e. after Clicking “Freeze Bid Submission” in the portal), the bidders shall **take print out of system generated acknowledgement** number and keep it as a record of evidence for online submission of bid, which will also act as an entry pass to participate in the bid opening.
- (x) Bidders should follow the server time being displayed on bidder's dash board at the top of the tender site, which shall be considered valid for all actions of requesting, bid submission, bid opening etc., in the e-tender system.
- (xi) All the documents being submitted by the bidders would be encrypted using PKI (Public Key Infrastructure) encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology.

ASSISTANCE TO BIDDERS:

- (i) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority as per e-mail ID given in the tender.
- (ii) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24X7 CPP Portal Helpdesk. The 24 x 7 Help Desk Number 0120- 4200462, 0120-4001002 and 0120-4001005. The helpdesk email id is support-eproc@nic.in

INSTRUCTION FOR e-PROCUREMENT

1. PREPARATION AND SUBMISSION OF BIDS:

- a. The detailed tender documents may be downloaded from <https://eprocure.gov.in/eprocure/app> till the last date of submission of tender. The Tender may be submitted online through CPP Portal <https://eprocure.gov.in/eprocure/app>
- b. The bidder should submit the bid online in **two part** viz. Technical Bid and Financial Bid. Technical Bid and Financial Bid should be uploaded online in separately.

2. SUBMISSION OF THE BID : All interested eligible bidders are requested to submit their bids online on CPP Portal: <https://eprocure.gov.in/eprocure/app> as per the criteria given in this document:

- a. Technical Bid and Financial Bid should be upload online separately.
- b. Both Technical and Financial Bid cover should be placed online on the CPP Portal (<https://eprocure.gov.in/eprocure/app>).

3. TECHNICAL BID: Signed and Scanned copies of the Technical bid documents as under must besubmitted online on CPP Portal: <https://eprocure.gov.in/eprocure/app>.

- a) **List of Documents to be scanned and uploaded (Under Cover-1) within the period of bidsubmission: -**

- i. Scanned copy of Bank details. (Bank details of principal supplier in case of Import shipments)
- ii. Scanned copy of certificate of GST. (GSTIN of Indian Agent in case of Import Shipments) (Not applicable in case of foreign vendor)
- iii. Scan copy of tender acceptance letter.
- iv. Scanned copy of specifications or brochures (if any).
- v. Scanned copy of other document mentioned in tender document (if any)

b) For Import Shipments – Shipping Terms Ex-Works/FOB international airport basis.

4. Financial Bid

- a. In preparing the financial bids, bidders are expected to take into account the requirements and conditions laid down in this Tender document. The financial bid should be uploaded online as per the specified “.Xls” format i.e. Price Bid Excel sheet attached as ‘Xls’ with the tender and based on the scope of work/Specifications, service conditions and other terms of the Tender document. It should include all costs associated with the Terms of Reference/Scope of Work/Specifications of the assignment.

5. Last Date for Submission of Tender:

- a. Online bids complete in all respects, must be submitted **on or before** the last date and time specified in the schedule of events.
- b. TIA may, at its own discretion, alter/extend the last date for submission of tender.

6. Bid Validity

- a. All the Bids must be valid for a period of 120 days from the last date of submission of the tender for execution of Contract. However, the quoted rates should be valid for the initial/extended period of the Contract from the effective date of the Contract. No request will be considered for price revision during the original Contract period.
- b. A bid valid for a shorter period shall be declared as non-responsive.
- c. In exceptional circumstances, prior to expiry of the original time limit, SCL, Mohali may request the bidders to extend the period of validity for a specified additional period beyond the original validity of 120 days. The request and the bidders' responses shall be made in writing. The bidders, not agreeing for such extensions will be allowed to withdraw their bids without forfeiture of their Bid Security.

7. Modification / Substitution/ Withdrawal of bids:

- a. No Bid shall be modified, substituted or withdrawn by the Bidder after the Bid's due Date.
- b. Any alteration/ modification in the Bid or additional information supplied subsequent to the Bid's due Date, unless the same has been expressly sought for by the Authority, shall be disregarded.

8. Rejection of the Bid: The bid submitted shall become invalid and tender fee shall not be refunded if:-

- a. The bidder is found ineligible.
- b. The bidder does not upload all the documents as stipulated in the bid document.

Instructions to Tenderers

The bidders are required to submit soft copies of their bids electronically on the Central Public Procurement (CPP) Portal i.e. <https://eprocure.gov.in/eprocure/app>, using valid Digital Signature Certificates (DSC). The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

1. This being a two part (Cover) tender i.e. technical and financial part separate, the Technical part should not contain Pricing information of the Tendered stores. The tenders containing Price details of the Tendered stores in Technical Part (Cover-1) will be summarily rejected. Prices should be indicated in the Financial Part (Cover -2) only.
2. Request for the extension of the due date will not be considered.
3. SCL reserves the right to accept or reject any / or all the tenders in part or full without assigning any reasons thereof. The bidder is at liberty to seek information related to bidding conditions, bidding process and/or rejection of its bid.
4. In this tender either the Indian Agent on behalf of the Principal/OEM or the Principal/OEM itself can bid, but both cannot bid simultaneously for the same item. Indian agents while quoting on behalf of their principals shall provide necessary latest authorization letter obtained from their Principals / Manufacturers in their bid.
5. If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the tender for the same item. If submitted, all offers submitted by the said agent shall be excluded from the procurement process.
6. SCL reserves the right to exclude the bidder from procurement process who have not agreed to furnish Security Deposit and Performance Bank Guarantee as sought vide this tender.
7. In case the bidder gives shorter validity than the period specified in the tender enquiry. SCL reserves the right to exclude the bidder from procurement process.
8. Late tenders, delayed tenders, fax quotations and e-mail quotations are not considered. Only tender submitted through CPP Portal shall be considered.
9. SCL reserves the right to verify all claims made by the bidder.
10. SCL reserves the right to change any milestone date of the tendering activity / tender schedule.
11. Tender which is not submitted as per the of instructions mentioned herein is liable to be rejected.
12. The purchaser shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portions of the quantity offered and the tenderer shall supply the same at the rates quoted.
13. It is expressly agreed that the acceptance of the Stores Contracted for is subject to final approval in writing by the Purchaser.
14. It is to be noted that the drawings, specifications, end-use, etc., given by the purchaser, are confidential and shall not be disclosed to any third party.
15. Prices are required to be quoted according to the units indicated in the tender. When

quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.

16. The Prices are to be mentioned both in figures as well as in words. The taxes, duties etc. are to be calculated and indicated in the column provided in online forms explicitly.
17. Bidders are expected to comply with commercial and other terms and conditions given in vendor specified terms of this tender. In case of any deviation, the reasons thereof should be clearly specified in the vendor specified terms column.
18. All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer.
19. Samples, if called for, should be submitted free of all charges by the tenderer and the Purchaser shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of non- acceptance of tender, the tenderer will have to remove the samples at his own expense.
20. Approximate net and gross weight of the items offered wherever required shall be indicated in your offer. If dimensional details are available the same should also be indicated in your offer.
21. Specifications: Stores offered should strictly confirm to our specifications. Deviations, if any, should be clearly indicated by the tenderer in his bid. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary, along with the quotations. Test Certificates, wherever necessary, should be forwarded along with supplies. Wherever options have been called for in our specifications, the tenderer should address all such options. Wherever specifically mentioned by us, the tenderer could suggest changes to specifications with appropriate response for the same.
22. The tenderer should supply along with his tender, the name of his bankers as well as the latest Income-Tax clearance certificate duly countersigned by the Income-Tax Officer of the Circle concerned under the seal of his office, if required by the Purchaser.
23. The contractor shall also undertake the supply of additional number of items covered by the order as considered necessary by the purchaser at a later date, the actual price to be paid shall be mutually agreed to after negotiations.
24. Subletting and Assignment: The contractor/supplier cannot sublet, transfer or assign the order/Contract or any part thereof or interests therein or benefit or advantage thereof in any manner whatsoever, to any other party without written consent of the purchaser. Such consent by the purchaser, however, shall not relieve or discharge the contractor/supplier from any obligation, duty or responsibility under the Purchase Order/ Contract.
25. The contractor/supplier shall indemnify the purchaser against Workmen Compensation Act.
26. The authority of the person submitting the tender, if called for, should be produced.

27. PROCEDURE FOR EVALUATION OF TENDERS:

Technical Evaluation Criteria:

Vendor meeting the eligibility criteria, Scope of Work and basic technical specifications mentioned in SCL Tender are likely to be considered to be technically qualified.

Evaluation of Financial Bids:

The following elements shall be considered for evaluation of Price Bids:

- a. Price quoted by the bidder in the price bid template is for meeting the functionalities given in the Tender and General & Technical Specifications.
- b. Compliance with the Payment Terms prescribed in this tender document. In the event, the bidder offers Payment Terms stringent than SCL prescribed Payment Terms, the bid of the bidder shall be loaded as per prime lending rate of Reserve Bank of India (RBI) and added to the landed cost.

- c. The Contract shall be awarded on overall L-1 basis.





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Tender document

Ref. No: SCL/PS/64466/FSD/2025

Dated: 19-02-2025

Sub: Quotation for supply of “ **SUPPLY INSTALLATION COMMISSIONING AND TESTING OF DIESEL ENGINE DRIVEN FIRE PUMP AND OTHER ITEMS**”.

We are interested in procuring the below mentioned material(s). Kindly submit your quotation online on or before bid submission date & time.

Sl. No.	SCL Material Code	Item Description & Specifications	UOM	Qty.
1.	410418063	Supply of Diesel Engine driven Fire Pump set complete with controller having capacity of 171 M3/Hr., Head 70 Mtrs. Mounted on common base plate supported by anti vibration mounts and back up spares. NOTE: PUMP and Engine shall FM approved and UL listed.	Set	01
2.	410418064	Supply of MS Basket strainer of inlet and outlet size 200mm.	Nos.	01
3.	412619048	Supply of DI Wafer Type Butterfly Valve with Lever Handle 150mm FM approved Pressure rating PN 16 Complete with matching Flanges.	Nos.	01
4.	410418065	Supply of DI Resilient Gate Valve Flanged OS&Y type, PN 16 of Size 200mm Approvals : FM	Nos.	01
5.	412619052	Supply of DI/ Cast Iron Non Return Valve flanged Size 150mm, suitable for Vertical mounting and Pressure rating PN16 Approvals : FM	Nos.	01
6.	412619050	Supply of Venturi Flow Meter Flange Type, Size 150mm Flow rating 2850LPM (750GPM) working pressure 150 psi with analogue display , accuracy +/- 2% Approvals : FM	Nos.	01
7.	412619049	Supply of Remote Engine Control Panel with inbuilt Battery Charger	Nos.	01
8.	410418067	Supply of Fuel Oil tank of Capacity 200ltrs complete with level Indicator, Piping of 15mm Size with inlet and outlet Valve	Nos.	01
9.		Installation, Testing, Commissioning of	Job	01

		items (1 to 8 above) and new piping work & accessories including piping for flow meter. Also modification of existing piping of Suction, Discharge header (size 150mm) and exhaust pipe(size 100mm), heat exchanger cooling water inlet/ outlet piping (size 25MM) and accessories like Gun Metal gate Valves , Pressure Gauges , U-tube, Flow meter etc		
10.		Dismantling of old Fire Pump set and associated piping and accessories.	Job	01

Terms and Conditions:

1. SCL reserves the right of accepting or rejecting any quotations without assigning any reason thereof.
2. Samples, if called for, shall be submitted free of charge and with no obligation to SCL basis.
3. This is only an enquiry and not a purchase order.
4. The Purchaser reserves the right at the time of Contract award to increase or decrease the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions.
5. The Purchaser reserves the right to accept or reject any bid, and to amend the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder or Bidders.

Filled up response fully stamped and signed by authorized bidder to be scanned and uploaded

TENDER ACCEPTANCE LETTER
(To be given on Company Letter Head)

Date: _____

To,

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No: _____

Name of Tender / Work:- _____

Dear Sir,

1. I/ We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely:

_____ as per
your advertisement, given in the above mentioned website(s).

2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents from Page No. ____ to ____ (including all documents like annexure(s), schedule(s), etc .), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.

3. The corrigendum(s) issued from time to time by your department/ organization too has also been taken into consideration, while submitting this acceptance letter.

4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.

5. I / We do hereby declare that our Firm has not been blacklisted/ debarred/ terminated/ banned by any Govt. Department/Public Sector Undertaking.

6. I / We certify that all information furnished by our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,
(Signature of the Bidder, with Official Seal)

Sr. No.	T&C	Vendor's Compliance (Yes/No)
1.	Quoted price to remain valid/firm till the execution of entire PO.	
2.	<p>IMPORTANT: This being two-part Tender Technical and Commercial parts separate, the bidder should not attach any document(s) containing pricing information alongwith Technical Part. The tenders containing price information in Technical Part will be summarily rejected. Prices should be indicated in the BOQ only.</p> <p>If any pricing information, Vendor/s like to provide shall be uploaded as a separate pdf file under tab Supporting documents (Commercial).</p>	
3.	Vendors to submit compliance to Technical Specifications and Scope of Work described in Annexure-1 and Annexure-2 respectively.	
4.	<p>Delivery Term: ON SITE SCL S.A.S Nagar basis.</p>	
5.	<p>WARRANTY: The Contractor shall provide warranty for a period of 12 months from the date of acceptance of entire project at Purchasers site at no extra charges against any manufacturing defect/faulty workmanship etc.</p> <p>In case any defect arises during warranty period, the Contractor should replace/rectify the same at its own cost at site/works.</p>	
6.	<p>DELAY IN COMPLETION/LIQUIDATED DAMAGES: If the Contractor fails to deliver the store/s within the time specified in the Contract or any extension thereof, the purchaser shall recover from the Contractor as liquidated damages a sum of half percent (0.5 percent) of the total purchase order value for every calendar week of delay. The total liquidated damages shall not exceed ten percent (10 percent) of the purchase order value.</p> <p>The term Stores shall mean all that the Contractor agrees to supply under the Contract as specified in the Purchase Order including its replacement/installation, testing and commissioning as per the specifications.</p>	
7.	<p>SECURITY DEPOSIT cum PERFORMANCE BANK GUARANTEE: On acceptance of the purchase order, the Contractor shall submit security deposit for three percent (03 percent) value of the Purchase Order (PO) within 15 days from the date of receipt of PO towards successful execution of the PO. Security Deposit shall be submitted through Demand Draft / Bankers Cheque/ Fixed Deposit Receipt or Bank Guarantee (BG) from any of the Scheduled Banks executed on non-judicial stamp paper of</p>	

	<p>appropriate value, and shall be valid for a period of sixty (60) days beyond the date for completion of the Purchase Order/ expiry date of warranty period whichever is later.</p> <p>This will be returned by SCL immediately on completion of warranty period and execution of PO satisfactorily as per order terms. If not, the amount will be forfeited.</p> <p>Note: In case of BG, Vendor to ensure that their Banker gives Bank Guarantee (BG) confirmation over email from Bank Domain at the following email Ids followed by a letter of confirmation as hard copy: sunitagaur@scl.gov.in CC: harjeet@scl.gov.in Ashutosh.gaur@scl.gov.in</p> <p>In addition, the banker may send a scanned copy of the BG as an attachment.</p> <p>The Demand Draft/Banker's Cheque/Fixed Deposit Receipts should be in favour of Semi-Conductor Laboratory payable at SAS Nagar (Mohali).</p> <p>Bank Guarantee should be in favour of President of India and as per the form as enclosed.</p> <p>Vendor is requested to send Security Deposit by SFMS (Structured Financial Messaging Solution) to SCL's Banker (SBIN0061229).</p>	
8.	<p>TERMS OF PAYMENT:</p> <p>Payment shall be released as under:</p> <ol style="list-style-type: none"> 1. 80 % on supply of material. 2. 15% on completion of Installation and Testing of material. 3. Balance 5% on Commissioning and Handing Over of the System along with installation charges. <p>Payment shall be released after TDS on services (installation etc.), if any.</p>	
9.	<p>LABOUR LAW: Contractor shall abide by all labour laws, rules and regulations in India, which are prevailing, and as enforced from time to time and SCL shall not be responsible for any accident or mishap during the course of the contract to any of engineer/ labour employee by the Contractor. The contractor shall also ensure that the statutory obligations with regards to the employment of labour under law are complied properly and timely.</p>	
10.	<p>REJECTION:</p> <p>In the event that any of the stores supplied by the Contractor is found defective in material or workmanship or otherwise not in conformity with the requirements of the Contract specifications</p>	

	<p>the purchaser shall either reject the stores or request the Contractor in writing to rectify the same. The Contractor, on receipt of such notification shall either rectify or replace the defective stores free of cost to the purchaser. If the Contractor fails to do so the purchaser may at his option either:</p> <p>a) replace or rectify such defective stores and recover the extra cost so involved from the Contractor or</p> <p>b) terminate the Contract for default as provided in this tender document.</p>	
11.	<p>ARBITRATION:</p> <p>In the event of any dispute/s, difference/s or claim/s arising out of or relating to the interpretation and application of the Contract, such dispute/s or difference/s or claim/s shall be settled amicably by mutual consultations of the good Offices of the respective Parties and recognizing their mutual interests attempt to reach a solution satisfactory to both the parties. If such a resolution is not possible, within 30 days from the date of receipt of written notice of the existence of such dispute/s, then the unresolved dispute/s or difference/s or claim/s shall be referred to the Sole Arbitrator appointed by the Parties by mutual consent in accordance with the rules and procedures of Arbitration and Conciliation Act 1996 as amended from time to time. The arbitration shall be conducted in New Delhi in the Arbitration and Conciliation Centre New Delhi (Domestic and International) as per its rules and regulations. The expenses for the Arbitration shall be shared equally or as may be determined by the Arbitrator. The considered and written decision of the Arbitrator shall be final and binding between the Parties. The applicable language for Arbitration shall be English only.</p> <p>Work under the Contract shall be continued by the CONTRACTOR during the pendency of arbitration proceedings, without prejudice to a final adjustment in accordance with the decision of the Arbitrator unless otherwise directed in writing by the DEPARTMENT or unless the matter is such that the works cannot be possibly continued until the decision (whether final or interim) of the Arbitrator is obtained.</p>	
12.	<p>APPLICABLE LAW:</p> <p>The Contract shall be interpreted, construed and governed by the laws of India.</p> <p>The contract shall be subject to exclusive jurisdiction of the Court of S.A.S. Nagar (Mohali), Punjab irrespective of anything mentioned in any correspondence or otherwise.</p>	
13.	<p>Vendor shall indicate specifically whether they falling the category of Class-I local Supplier or Class-II Local Supplier or Non -Local Supplier for evaluation as per Ministry of Commerce and Industry Office Order No. P-45021/2/2017-PP (B-II dt. 16th September 2020).</p> <p>Definitions: A supplier or service provider, whose goods, services or works offered for procurement, has local content:</p> <p>a) Equal to or more than 50% : Class-I local supplier.</p> <p>b) More than 20% but less than 50% : Class-II local supplier.</p>	

	c) Less than or equal to 20% : Non local supplier. (Mention your category)	
14.	Conditions in respect to Bidder from a country which shares land border with India: i) Whether the vendor/Supplier is from any country sharing land borders with India or whether the vendor/Supplier is representing any principal vendor/supplier sharing land borders with India. ii) If the vendor/supplier is from any country which shares land borders with India, or if the vendor/supplier is an Indian Agent representing principal vendor/supplier of a country which shares land borders with India, they shall submit photocopy documentary proof of Registration with Registration Committee constituted by Department of promotion of Internal Industry and Trade [DPIIT]. The provisions of following Orders issued by Department Of Expenditure, Ministry of Finance are applicable in this regard: (a) Order (Public Procurement No.1) Nos.6/182019-PPD dt July 23, 2020. (b) Order (Public Procurement No.2) Nos.6/182019-PPD dt July 23, 2020 (c) Order (Public Procurement No.3) Nos.6/182019-PPD dt July 24, 2020 on clarification to Order (Public Procurement No.1) dt July 23, 2020. iii) Offer received from vendor who falls in this category but does not submit copy of documentary proof of Registration shall be rejected.	

(Signature the Bidder, with Official Seal)

STANDARD TERMS AND CONDITIONS

1. DEFINITIONS:

- (a) The term PURCHASER shall mean the Director, SCL or his successors or assigns.
- (b) The term CONTRACTOR shall mean, the person, firm or company with whom or with which the order for the supply of stores is placed and shall be deemed to include the Contractor's successors, representative, heirs, executors and administrators unless excluded by the Contract.
- (c) The term STORES shall mean what the Contractor agrees to supply under the Contract as specified in the Purchase Order including erection of plants machinery and subsequent testing, should such a condition is included in the Purchase Order.
- (d) The term PURCHASE ORDER shall mean the communication signed on behalf of the Purchaser by an Officer duly authorised intimating the acceptance on behalf of the Purchaser on the terms and conditions mentioned or referred to in the said communication accepting the tender or offer of the Contractor for supply of stores or plant, machinery or equipment or part thereof.

2. PRICES:

Tender offering firm prices will be preferred. Where a price variation clause is insisted upon by a tenderer, quotation with a reasonable ceiling should be submitted. Such offers should invariably be supported by the base price taken into account at the time of tendering and also the formula for any such variation/s.

3. SECURITY DEPOSIT:

On acceptance of the tender and placement of order, the Contractor shall, at the option of the Purchaser and within the period specified by him, deposit with him, in cash or in any other form as the Purchaser may determine, security deposit not exceeding ten percent of the value of the Contract as the Purchaser shall specify. If the Contractor is called upon by the Purchaser to deposit, Security and the Contractor fails to provide the security within the period specified, such failure shall constitute a breach of the Contract, and the Purchaser shall be entitled to make other arrangements for the re -purchase of the stores contracted at the risk of the Contractor in terms of the tender and/or to recover from the Contractor, damages arising from such cancellation.

4. GUARANTEE REPLACEMENT:

- (a) The Contractor shall guarantee that the stores supplied shall comply fully with the specifications laid down, for material, workmanship and performance.
- (b) For a period of **12 months** after the acceptance of the stores, if any defects are discovered therein or any defects therein found to have developed under proper use, arising from faulty stores design or workmanship, the Contractor shall remedy such defects at his own cost provided he is called upon to do so within a period of **14 months** from the date of acceptance thereof by the purchaser who shall state in writing in what respect the stores or any part thereof are faulty.
- (c) If, in the opinion of the purchaser, it becomes necessary to replace or renew any defective stores such replacement or renewal shall be made by the Contractor free of all costs to the purchaser, provided the notice informing the Contractor of the defect is given by the purchaser in this regard within the said **period of 12 months** from the date of acceptance thereof.
- (d) Should the Contractor fail to rectify the defects, the purchaser shall have the right to reject or repair or replace at the cost of the Contractor the whole or any portion of the defective stores.
- (e) The decision of the purchaser notwithstanding any prior approval or acceptance or inspection thereof on behalf of the purchaser, as to whether or not the stores supplied by the Contractor are defective or any defect has developed within the said period of **12 months** or as to whether the nature of the defects requires renewal or replacement, shall be final, conclusive and binding on the Contractor.
- (f) To fulfil guarantee conditions outlined in the tender, the Contractor shall, at the option of the

purchaser, furnish a Bank Guarantee (as prescribed by the purchaser) from a Bank approved by the purchaser for an amount equivalent to 3% of the value of the Contract along with first shipment documents. On the performance and completion of the Contract in all respects, the Bank Guarantee will be returned to the Contractor without any interest.

(g) All the replacement stores shall also be guaranteed for a period of **12 months** from the date of arrival of the stores at purchaser's site.

(h) Even while **the 12 months** guarantee applies to all stores, in case where a greater period is called for by our specifications then such a specification shall apply in such cases the period of **14 months** referred to in **para 4 (b) (c)** shall be the asked for guarantee period plus two months.

5. PACKING FORWARDING INSURANCE:

The Contractor will be held responsible for the stores being sufficiently and properly packed for transport by rail, road, sea or air to withstand transit hazards and ensure safe arrival at the destination. The packing and marking of packages shall be done by and at the expense of the Contractor. The purchaser will not pay separately for transit insurance, all risks in transit being exclusively of the Contractor and the Purchaser shall pay only for such stores as are actually received in good condition in accordance with the Contract.

6. DESPATCH:

The Contractor is responsible for obtaining a clear receipt from the Transport Authorities specifying the goods dispatched. The consignment should be dispatched with clear Railway Receipt/Lorry Receipt. If sent in any other mode, it shall be at the risk of the Contractor. Purchaser will take no responsibility for short deliveries or wrong supply of goods when the same are booked on said to contain basis. Purchaser shall pay for only such stores as are actually received by them in accordance with the Contract.

7. TEST CERTIFICATE: Wherever required, test certificates should be sent along with the dispatch documents.

8. ACCEPTANCE OF STORES:

(a) The stores shall be tendered by the Contractor for inspection at such places as may be specified by the purchaser at the Contractor's own risk, expense and cost.

(b) It is expressly agreed that the acceptance of the stores Contracted for, is subject to final approval by the purchaser, whose decision shall be final.

(c) If, in the opinion of the purchaser, all or any of the stores do not meet the performance or quality requirements specified in the Purchase Order, they may be either rejected or accepted at a price to be fixed by the purchaser and his decision as to rejection and the prices to be fixed shall be final and binding on the Contractor.

(d) If the whole or any part of the stores supplied are rejected in accordance with Clause No. 8 (c) above, the purchaser shall be at liberty, with or without notice to the Contractor, to purchase in the open market at the expense of the Contractor stores meeting the necessary performance and quality Contracted for in place of those rejected, provided that either the purchase, or the agreement to purchase, from another supplier is made within six months from the date of rejection of the stores as aforesaid.

9. REJECTED STORES:

Rejected stores will remain at destination at the Contractor's risk and responsibility. If instructions for their disposal are not received from the Contractor within a period of 14 days from the date of receipt of the advice of rejection, the purchaser or his representative has, at his discretion, the right to scrap or sell or consign the rejected stores to Contractor's address at the Contractor's entire risk and expense, freight being payable by the Contractor at actuals.

10. DELIVERY:

(a) The time for and the date of delivery of the stores stipulated in the Purchase Order shall be deemed to be the essence of the Contract and delivery must be completed on or before the specified dates.

(b) Should the Contractor fail to deliver the stores or any consignment thereof within the period

prescribed for such delivery, the purchaser shall be entitled at his option either.

(i) to recover from the Contractor as agreed liquidated damages and not by way of penalty, a sum of 0.5% per week of the price of any stores which the Contractor has failed to deliver as aforesaid or during which the delivery of such store may be in arrears subject to a minimum of 10%, or

(ii) to purchase from elsewhere, without notice to the Contractor on the account and at the risk of the Contractor, the stores not delivered or others of a similar description (where others exactly complying with the particulars, are not, in the opinion of the purchaser, readily procurable, such opinion being final) without cancelling the Contract in respect of the consignment (s) not yet due for delivery, or

(iii) to cancel the Contract or a portion thereof and if so desired to purchase or authorise the purchase of stores not so delivered or others of a similar description (where others exactly if complying with the particulars are not, in the opinion of the purchaser, readily procurable, such opinion final) at the risk and cost of the Contractor.

In the event of action being taken under sub-**clause (ii) (iii) of clause 10 (b)** above, the Contractor shall be liable for any loss which the purchaser may sustain on that account, provided that the re-purchase or if there is an agreement to repurchase then such agreement is made within six months from the date of such failure. But the Contractor shall not be entitled to any gain on such re-purchase made against default. The manner and method of such re purchase shall be at the discretion of the purchaser, whose decision shall be final. It shall not be necessary for the purchaser to serve a notice of such re purchase on the defaulting Contractor. This right shall be without prejudice to the right of the purchaser to recover damages for breach of Contract by the Contractor.

11. EXTENSION OF TIME:

As soon as it is apparent that the Contract dates cannot be adhered to, an application shall be sent by the Contractor to the purchaser. If failure, on the part of the Contractor, to deliver the stores in proper time shall have arisen from any cause which the purchaser may admit as reasonable ground for an extension of the time (and his decision shall be final) he may allow such additional time as he considers it to be justified by circumstances, of the case without prejudice to the purchaser's right to recover liquidated damages.

12. ERECTION OF PLANT MACHINERY:

Wherever erection of a plant or machinery is the responsibility of the Contractor as per the terms of the Contract and in case the Contractor fails to carry out the erection as and when called upon to do so within the period specified by the purchaser, the purchaser shall have the right to get the erection done through any source of his choice. In such an event, the Contractor shall be liable to bear any additional expenditure that the purchaser is liable to incur towards erection. The Contractor shall, however, not be entitled to any gain due to such an action by the purchaser.

13. PAYMENT:

Contractor's bill will be passed for payment only after the stores have been received, inspected and accepted by the Purchaser.

14. RECOVERY OF SUM DUE:

Whenever any claim for the payment of, whether liquidated or not, money arising out of or under this Contract against the Contractor, the purchaser shall be entitled to recover such sum by appropriating in part or whole, the security deposited by the Contractor, if a security is taken against the Contract. In the event of the security being insufficient or if no security has been taken from the Contractor, then the balance or the total sum recoverable as the case may be, shall be deducted from any sum then due or which at any time thereafter may become due to the Contractor under this or any other Contract with the purchaser. Should this sum be not sufficient to cover the full amount recoverable, the Contractor shall pay to the purchaser on demand the remaining balance due. Similarly, if the purchaser has or makes any claim, whether liquidated or not, against the Contractor under any other Contract with the purchaser, the payment of all moneys payable under the Contract to the Contractor including the security deposit shall be withheld till such claims of the purchaser are finally adjudicated upon and paid by the Contractor.

15. INDEMNITY:

The Contractor shall warrant and be deemed to have warranted that all stores supplied against this Contract are free and clean of infringement of any Patent, Copyright or Trademark, and shall at all times indemnify the purchaser against all claims which may be made in respect of the stores for infringement of any right protected by Patent Registration of design or Trade mark and shall take all risk of accidents or damage which may cause a failure of the supply from whatever cause arising and the entire responsibility for sufficiency of all means used by him for the fulfilment of the contract.

16. COUNTER TERMS AND CONDITION OF SUPPLIERS:

Where counter terms and conditions printed or cyclostyled conditions have been offered by the supplier, the same shall not be deemed to have been accepted by the Purchaser, unless specific written acceptance thereof is obtained.

17. SECURITY FOR PURCHASE OF MATERIALS:

Successful tenderer will have to furnish in the form of a bank guarantee or any other form as called for by the purchaser towards adequate security for the materials and properties provided by the Purchaser for the due execution of the Contract.

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SPECIFICATION CUM TECHNICAL COMPLIANCE SHEET FOR DIESEL ENGINE DRIVEN FIRE PUMP SET

DESIRED TECHNICAL SPECIFICATIONS			VENDOR'S COMPLIANCE (Bidders should confirm each & every point clearly. Deviations, if any, should be highlighted under Vendor's Remarks)		
Sl. No.	Specification	Specification Value	Compliance	Offered Specification	Vendor's Remarks
1	Supply, Installation, Testing and Commissioning of Diesel Engine Driven Fire Pump set. The Fire Pump set shall be FM approved & UL listed.				
1.1	Use and Application	Pump set to be used for fire fighting Systems.			
1.2	Dimension of the Fire Pump Skid (Length x Width x Height)	Vendor to specify			
1.3	SKID DESIGN	Pump and Diesel engine set shall be mounted on common metal base plate made of Channel section. The complete pump skid shall be painted in Fire Red paint.			
	Technical Specifications				
A.	<u>PUMP:</u>				
i.	Type	Single Stage, End Suction / Horizontal Split Casing Centrifugal Pump			
ii.	Capacity	171 M ³ /Hr.			
iii.	Approvals	FM approved & UL listed			
iv.	Head	70 Meters			
v.	Efficiency	70% or higher			
vi.	Make & Model	Vendor to specify and attach Catalogue of pump model offered			

vii.	Gross HP at rated RPM	Vendor to specify			
viii.	Liquid to be handled	Water			
ix.	Duty	Continuous			
x.	Speed	In the range of 1800 to 2900 RPM			
xi.	Negative suction head	Not Applicable (Flooded Suction)			
xii.	Suction & Discharge Pressure Gauges	Glycerine filled (6" dia.)			
xiii.	Mounting	Mounted on common base plate (for pump & diesel engine) with Anti-vibration footing.			
	Material of Construction:				
i.	Pump Casing	Cast Iron, IS: 210-FG 260 (012) / Ductile Iron, 65-45-12			
ii.	Impeller	Lead Tin Bronze, IS: 318-LTB2 (110)			
iii.	Shaft	Stainless Steel, ASTM A276-410 ANLD (253)/ AISI 420			
iv.	Casing Ring	Lead Tin Bronze, IS: 318-LTB2 (110)			
v.	Shaft Sleeve	Lead Tin Bronze, IS: 318-LTB2 (110)/ SS ASTM A 276 CL304			
vi.	Neck Ring Material	Bronze/Lead Tin Bronze IS 318-LTB5 (110)			
vii.	Bearing Housing	Cast Iron, IS: 210-FG 260			
viii.	Bearing	As per manufacturer			
ix.	Construction Options:				
x.	Flange PCD (Suction & Delivery)	Vendor to confirm			
xi.	Sealing Arrangement	Gland Packing			
xii.	Direction of Rotation	To match diesel engine rotation			
xiii.	Approval	FM approved & UL listed			
	NOTE:				

		At 150% of rated flow, head should not be less than 65% of rated head.			
		Pump shut-off head should not exceed 120% of rated head.			
		Pump hydro test pressure should be min 1.5 times of working pressure for 5 minutes			
B.	<u>PRIME MOVER:</u>				
i.	Approval	FM approved & UL listed			
ii.	Rating & RPM	77 HP, 2100 - 2900 RPM, rated for continuous power, having 10% reserve horse power in excess of the net minimum BHP requirement of the pump input when running at rated rpm, at the site conditions.			
iii.	Make	Cummins/ Kirloskar/ Greaves			
iv.	Ambient Temperature	Maximum 48° C Minimum 0° C			
v.	Maximum Relative Humidity (%) at 35° C	95			
vi.	Fuel	Vendor to specify			

	Engine Sub-Systems:				
i.	Cooling System	Engine mounted Heat Exchanger cooled			
ii.	Air Intake System	Should comprise of: 1. Air Cleaner Type: Dry/ Oil type 2. Suitable for installation below ground level in ventilated room. 3. Max Air temperature at inlet 45°C			
iii.	Starting System	Electric starting system, comprising of Battery, Starter & Charging system to be provided in the engine as primary starting system.			
iv.	Exhaust System	Vendor to specify : 1. Exhaust Flow as manufacturer specification at rated rpm. 2. Max allowable back pressure 4 kPa /as manufacturer specifications			
v.	Fuel Tank and Capacity	Fuel tank of capacity 200ltrs. Complete with drain valve, air vent and inlet and outlet connection to the new pump set along with tank level indicator/gauge.			
vi.	Instrument Panel	Engine mounted comprising of: i) Digital Tachometer & Hour Meter ii) Lube Oil Pressure and Temperature Indicator iii) Water Temperature Indicator iv) Electric Starter Switch v) Engine Shut-off Push Button vi) Fuel Tank level indicator			
vii.	Safety Controls	Safety control devices to protect the engine against the following occurrences: i) Low lube oil pressure ii) High water temperature iii) Over speed NOTE: The Over-speed shut-down to be effected at 20% above rated speed with manual reset.			
viii.	Other features to be provided	i) Base Frame and Coupling			

		ii) Flywheel Housing			
C.	ENGINE MOUNTED CONTROLLER:	<p>UL Listed / FM Approved, 12 V, localised engine mounted control panel comprising as under:</p> <ol style="list-style-type: none"> 1. Digital Tachometer & Hour meter 2. Lube Oil Pressure and temperature indicator gauge 3. Water Temperature Indicator gauge 4. Electric start switch 5. Engine stop push button 6. Safety interlocks for Low Lube Oil Pressure, Cooling Water High Temperature, over speed etc. 			
D.	SILENCER AND EXHAUST PIPING:	<p>Silencer: Diesel engine silencer shall be mounted horizontally on the supports from roof of the pump room.</p> <p>Exhaust Pipe:</p> <ol style="list-style-type: none"> i) Entire exhaust pipe length (including silencer) shall be insulated with heat insulating material over which aluminium sheet cladding shall be done. A protective cap at the end of the exhaust pipe outside the pump room shall also be provided to avoid ingress of rain water. ii) The silencer shall be installed with Stainless Steel thermal expansion bellow. 			

E.	SPARE PARTS TO BE SUPPLIED ALONG WITH THE PUMP SET	Bidders to include supply of backup spares as listed below as part of pump set.			
		Centrifugal Pump:			
		i) Gland packing -1 sets			
		ii) Coupling - one set with finished bore			
		Diesel Engine:			
		i) Air filter- 2 sets			
		ii) Fuel filter- 2 sets			
		iii) Lube oil filter- 2 sets			
		iv) Electric starter- 1 No.			
		v) V-Belt - 2 sets			
F.	BASKET STRAINER	<p>Basket Strainer shall be MS fabricated from M.S. 'C' Class (Heavy) pipe conforming to IS:1239 with 25 mm size vent and drain connections as under: Size: 200 mm Height: approx. 700 mm End Connection: Flanged Pressure Rating: PN16 Flange Drilling: BS EN 1092 PN16 (FF) Wire Strainer Mesh: SS 316 (30 Mesh x 32 SWG)</p> <p>NOTE: 1. Basket Strainer shall have two coats of epoxy paint of PO Red colour shade over a coat of zinc oxide primer. 2. Strainer body shall be provided with bolted top cover for easy removal of strainer element.</p>			
G.	GATE VALVE	Gate Valve shall be D.I. Resilient OS&Y type of size 200 mm complete with matching MS flanges, 8.8 grade bolts of required length with nut & washer and rubber gasket.			
H	FUEL TANK	<p>Fuel Tank shall be MS fabricated / readymade complete with drain valve, air vent and inlet and outlet connection to the new pump set along with tank level indicator/gauge.</p> <p>Capacity: 200 Litres or to hold fuel for at least 8 (eight) hours continuous operation of the engine on full load, whichever is more.</p>			

2.	GENERAL COMPLIANCE	i) Vendor to submit Performance Chart (indicating capacity, head, efficiency, size of impeller, technical calculations for BHP, NPSH requirement etc.) and Manufacturer's Test Certificates of the centrifugal pump along with their offer.			
		ii) The engine shall be rated for continuous operation with an over load power rating of 110 % of the continuous power corresponding to engine application, for a period of 1 hr.			
		iii) Vendor to provide new equipment certificate for Fire Pump set.			
		iv) The vendor shall provide Parts Catalogue (with part number), Operation & Maintenance Manual, Schematic Drawings and Technical details along with the delivery of the Fire Pump set.			
		v) Any item / point not included in the specification but necessary for the efficient operation of the pump set should be offered as optional.			
		vi) The vendor to assure that after sales service for the pump set shall be provided by their respective OEM/authorized dealers.			
		vii) The vendor to submit OEM letter for back up spare support for a period of 10 years from the date of supply.			
3.	INSTALLATION, MODIFICATION OF SUCTION/ DELIVERY PIPING INCLUDING SUPPORT WORK etc	i) Piping (suction and delivery headers) shall be modified as required to install the new Pump Set. Including overhead support work.			
		ii) Installation of associated accessories like, exhaust pipe with expansion bellow and silencer, fuel tank and its piping etc.			
		iii) Exhaust pipe length (including silencer) shall be provided with thermal insulation over which aluminium sheet cladding shall be done. The silencer shall be installed with thermal expansion bellow.			
4.	GENERAL NOTES FOR BIDDERS	i) Vendor to be OEM or OEM's authorised dealer. Vendor other than the OEM must			

		submit proper authorisation certificate (in original) from the OEM.			
5	AFTER SALES SERVICE	Vendor to confirm that all spares related to the fire pump set supplied (regular consumable and vital spares for engine, pump & all accessories) shall be available for a period of at least 10 (ten) years after installation of the pump set.			
6	WARRANTY / GUARANTEE	The offered fire pump set & its accessories shall be under guarantee / warranty by the vendor for a minimum period of not less than 12 months from the date of successful commissioning of the complete fire pump set at site. Defective goods / materials or parts notified by SCL shall be replaced immediately without any charges.			
7	PERFORMANCE TESTING	The Fire Pump set shall be factory performance tested in accordance with the requirements of FM/UL. The test shall include performance / full load test as well as NPSH tests of the fire pump set as a complete unit. 1. Vendor to submit Factory test report shall be submitted along with supply of pump set			
		2. Functional Testing of Pump set shall be carried out after installation for 2 hrs of continuous run and engine shall not develop overheating or any abnormality.			
8	INSTALLATION, TESTING & COMMISSIONING	The pump set shall be commissioned under guidance of OEM representative.			
9.	PAYMENT TERMS	4. 80 % on supply of material. 5. 15% on completion of Installation and Testing of material. 6. Balance 5% on Commissioning and Handing Over of the System along with installation charges.			

SCOPE OF WORK

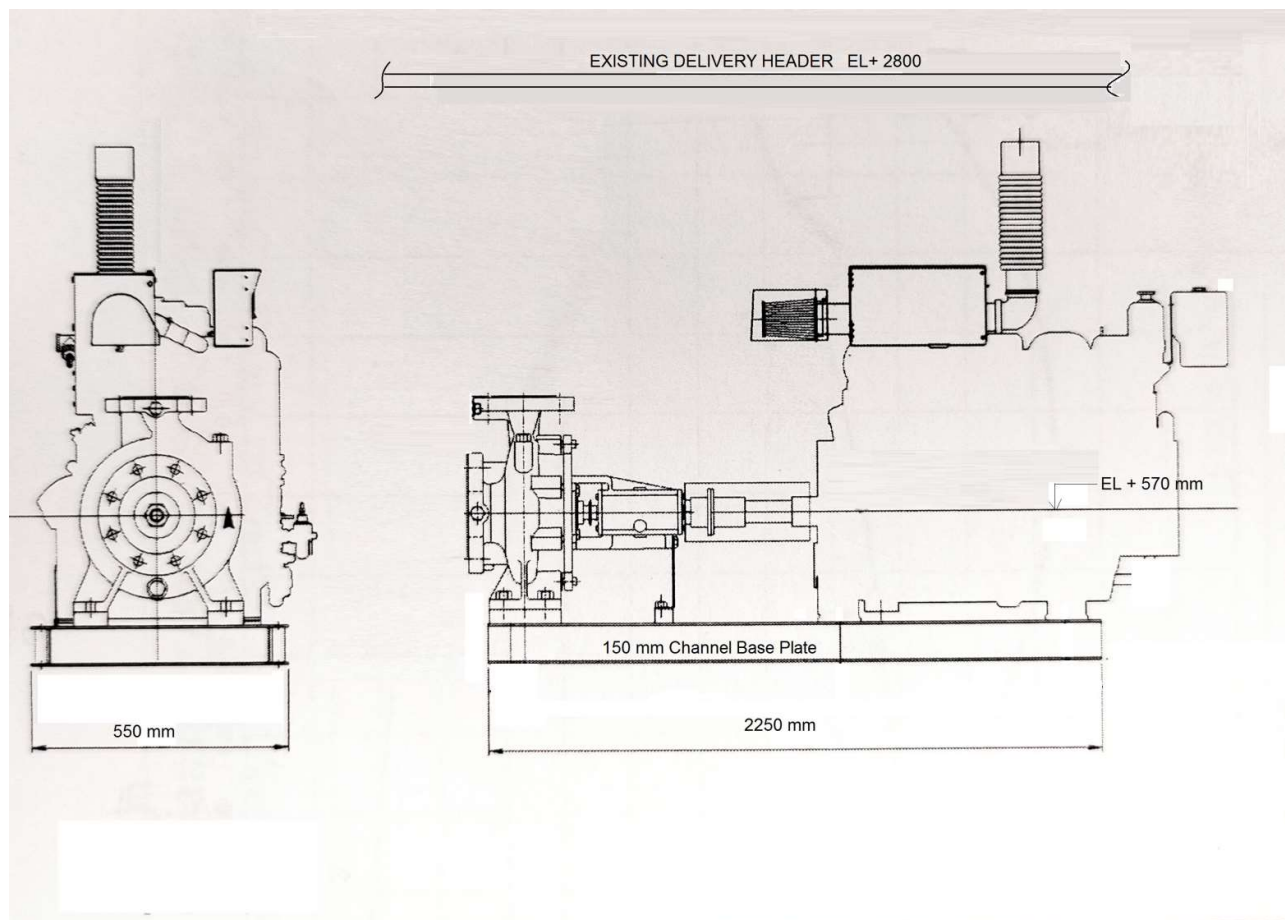
Sr. No.		Vendor's Compliance (Yes/No)
1.	SCOPE OF WORK	
	<p>This specification covers the minimum requirements for Supply, Installation, Testing and Commissioning of 171 M³/Hr., Head 70 Mtrs. Diesel Engine driven Fire Pump set. The work described in this specification includes all engineering, labour, materials, equipment and service necessary and required, and shall be done in accordance with the approved drawings, specifications, and applicable standards to complete and test the system.</p> <p>It is not the intent of this document to completely specify all details of design and construction. Nevertheless, the systems shall conform in all respects to high standards of engineering, design and workmanship and shall be capable of performing the operations in a safe and efficient manner as per the industry standards.</p>	
	<ul style="list-style-type: none"> Supply Installation Testing and commissioning of items as defined in the purchase order. 	
	<ul style="list-style-type: none"> Dismantling of old Fire Pump set and associated accessories: Dismantling and removal of existing pump set and associated accessories installed in Fire Pump House like, basket strainer,, Suction & Delivery Valves, exhaust pipe, silencer, fuel tank and its piping, heat exchanger inlet/outlet piping etc. installed in Fire Pump House. 	
	<ul style="list-style-type: none"> Installation of new Fire Pump set and associated accessories: Diesel Engine driven Fire Pump set of capacity 171 M³/Hr., Head 70 Mtrs. in all respect in the place of dismantled diesel engine driven pump set and associated accessories installed in Fire Pump House. 	
	<ul style="list-style-type: none"> Making new connections in the existing suction and delivery headers to suit the new fire pump set. Also, installation of associated accessories like, exhaust pipe with expansion bellow and silencer, fuel tank and its piping etc. 	
	<ul style="list-style-type: none"> Installation of Flow Meter on pump bypass discharge piping to installed new including supply of 150mm pipe 	

	(12meter) and routing of the same as per site condition.	
	<ul style="list-style-type: none"> Testing & Commissioning of the Fire Pump Set shall be carried out in the supervision of OEM authorized representative. 	
	NOTE: a) Diesel engine silencer shall be mounted horizontally in line with exhaust line with supports from the roof.	
	b) Entire exhaust pipe length (including silencer) shall be insulated with heat insulating material over which aluminium sheet cladding shall be done. A protective cap at the end of the exhaust pipe outside the pump room shall also be provided to avoid ingress of rain water.	
	c) The silencer shall be installed with thermal expansion bellow.	
	<ul style="list-style-type: none"> The scope of work shall also cover unloading, storage, insurance, in-plant transportation of all the material to be used for installation of the fire pump set. 	
	<ul style="list-style-type: none"> Vendor shall also supply all the auxiliary items like MS Bends, MS Flange, Nuts-Bolts. Gaskets, Clamps, pipe supports, Pressure Gauges, Gate Valves, piping from Diesel Engine to Fuel Tank & from Heat Exchanger to drain etc. which may be required to complete the installation and commissioning of the said fire pump set. NOTE: Shifting of dismantled fire pump set and other accessories to a place (within 100 meters of Fire Pump house) as defined by the SCL engineer is in the scope of the vendor.	
2.	ELIGIBILITY CRITERIA	

	<ul style="list-style-type: none"> Only those vendors meeting the below mentioned eligibility criteria are eligible to participate in the tender: <ul style="list-style-type: none"> a) OEM/ OEM Authorised Bidder should have satisfactorily executed himself or through third party at least two similar works during the last 10 years. 'Similar Work' shall mean installation of Diesel Engine driven Fire Pump set in strict accordance with all applicable codes and - standards. Vendor other than the OEM/OEM authorized can also participate in the tender on submission of OEM letter for technical (for installation and commissioning) and warranty support specific for this work provided it meets the above criteria of 2 similar works. b) Bidder or Third party to submit copy(ies) of Purchase Orders/Work Orders and satisfactory completion certificates issued by the respective clients/organisations giving details of the work executed as part of the Technical part of un-priced bid to ascertain their eligibility for the work. c) Completion certificate for executed works issued by private parties shall be supported by TDS. d) <u>No exemption to MSME/ Stat-ups:</u> Installation, testing and commissioning of Diesel Engine driven Fire Pump set with associated accessories being specialised job, thus, should be carried out through vendors having experience in executing such job. 	
3.	QUALITY ASSURANCE	
	<ul style="list-style-type: none"> <ul style="list-style-type: none"> a. The OEM of Fire Pump set shall be ISO 9001 registered. b. Manufacturer name shall be marked on the Diesel Engine, Pump and other components of the skid. c. All Accessories, components shall have marking of OEM and approval standard as required and shall be new. d. Approval Certificates as required shall be submitted with supply of material. 	
4.	FACILITY TO BE PROVIDED BY SCL:	

	<ul style="list-style-type: none"> Electric power 230 V, single phase, 50 Hz or 440 V, 3-Phase, 50 Hz for the work will be provided at single point by SCL on no charge basis to the vendor. However vendor to provide Power Main Cut-Out MCB switch board and shall make his own arrangement to tap electric power from a 3 phase/single phase supply up to the site of work. Suitable extension board with main isolators, MCBs shall be installed by the vendor at his own cost. 	
5.	DEVIATION Vendor to explicitly mention deviations if any from the specifications otherwise it will be presumed that the work will be carried out as per the specification given in the RFP.	

GENERAL DETAILS OF EXISTING DIESEL ENGINE DRIVEN PUMP SET



Notes:

All dimensions are in mm unless otherwise noted.