



DELHI AVIATION FUEL FACILITY PRIVATE LIMITED

**DELHI AVIATION FUEL FACILITY PRIVATE LIMITED
AVIATION FUELLING STATION
SHAHBHAD MOHAMMADPUR
IGI AIRPORT
NEW DELHI-110061**



TENDER NO: DAFFPL/FF/2022-23/13

INVITING TENDER FOR
11KV ELECTRICAL POWER SYSTEM

BID DUE DATE & TIME: 1500 Hrs. IST on 03rd April 2023

OPENING OF TECHNICAL BIDS: 1100 Hrs. IST on 04th April 2023



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PRICE BID

NOTE: BIDDERS ARE REQUESTED TO SIGN AND STAMP ALL THE PAGES OF THE TENDER DOCUMENT AND SEND THE SAME BACK IN THEIR OFFER AS A TOKEN OF UNCONDITIONAL ACCEPTANCE OF TENDER TERMS.THE DEVIATIONS, IF ANY, SHOULD BE MENTIONED SEPARATELY ON BIDDER’S LETTER HEAD IN TECHNICAL BID. THE DEVIATIONS MENTIONED ANYWHERE ELSE SHALL NOT BE CONSIDERED. IN ABSENCE OF DEVIATION SHEET, IT WOULD BE CONCLUDED THAT BIDDER HAS ACCEPTED THE TENDER TERMS WITHOUT ANY DEVIATIONS. CORRECTIONS IN TENDER DOCUMENT WILL NOT BE ACCEPTED.



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TENDER NOTICE DELHI AVIATION FUEL FACILITY PRIVATE LIMITED

INVITING TENDER FOR 11KV ELECTRICAL POWER SYSTEM (DESIGN, SUPPLY, INSTALLATION, TESTING & COMMISSIONING) AT DAFFPL

TENDER NO: DAFFPL/FF/2022-23/13

Delhi Aviation Fuel Facility (P) Ltd (DAFFPL) invites bids from eligible bidders for 11KV ELECTRICAL POWER SYSTEM WORKS AT DAFFPL FUEL FARM.

Brief Scope of work:

We intend to carry out replacement of existing 33KV Electrical Power System with 11KV Electrical Power System along with all associated electrical, mechanical & civil works complete including design, manufacture/supply, installation, testing & commissioning as per specifications.

Bid Security (EMD):	As mentioned in the Tender document
Date, Time & Venue for Pre-bid Meeting:	21 st March 2023; 1500 HRS (IST) at DAFFPL, Aviation Fueling Station, Shahabad Mohammadpur, New Delhi-110061
Last Date of Submission of Queries	Upto 18:00 HRS (IST) on 25 th March 2023.
Bid Due Date, Time & Place of Submission:	Upto 15:00 HRS (IST) on 03 rd April 2023, at e-Tendering Portal of DAFFPL.

Detailed Invitation for Bids (IFB) along with Pre-qualification Criteria, Bid Document Corrigenda can be viewed and downloaded from DAFFPL's website: <http://daffpl.enivida.com>

Chief Executive Officer
DAFFPL, New Delhi



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CHAPTER 1: INTRODUCTION (COVERING NOTE)

Delhi Aviation Fuel Facility Private Limited (DAFFPL) is a Joint Venture comprising Indian Oil Corporation Ltd. (IOCL), Bharat Petroleum Corporation Ltd. (BPCL), and Delhi International Airport (P.) Ltd. (DIAL). We provide the infrastructure aimed at ensuring an uninterrupted flow of Aviation Turbine Fuel (ATF) to all type of aircrafts at the Indira Gandhi International Airport, New Delhi (IGI Airport) as per international benchmarking.

The bidder/ contractor shall refer to various sections of this tender document for detailed scope of work. It is contractor's/ bidder's responsibility to execute the job in all respects as per specification furnished by consultant / owner and as per applicable codes, standards & in line with statutory requirements.

The field circumstances shall also be taken into consideration and methods suitable to the site conditions shall be adopted with concurrence of the Engineer-in-charge and in line with manuals, instructions of respective equipment and specified codes and standards. The successful accomplishment of the project is greatly influenced by the teamwork, workmanship of the workers and supervisors.

The Contractor/Bidder shall employ only such workers and supervisors who have considerable experience of similar work and who can work, temperamentally in good harmony and co-operation.

Delhi Aviation Fuel Facility Private Limited (DAFFPL) invites tenders in prescribed tender form under two-bid system. For viewing details including EMD, BID QUALIFICATION CRITERIA etc. please visit our e-Tendering web site <http://daffpl.enivida.com>

The bids are to be submitted on the e-Tendering portal of **Delhi Aviation Fuel Facility Private Limited (DAFFPL)**.



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1. The Tender is floated in Two Bid system consisting of Technical Bids (Bid Qualification Criteria - BQC, Technical plus Commercial) and Price Bids.

Part-I : Bid Security / EMD in accordance with tender document.
Part-II : BQC (Bid qualification criteria), Technical & commercial Bid, duly filled in & along with all supporting as requested to be submitted/uploaded on DAFFPL e-tendering portal.
Tender Box.
Part -III : Price Bid.

2. The bidder should be able to construct the entire size/type/quantity bid by them. Bidders cannot bid for part items or part quantity.
3. Firstly, the technical bid (BQC & Techno commercial bids) shall be opened. The Bids shall be initially scrutinized by a team as per tender requirements of BQC (Bid qualification criteria). Technical cum commercial bids of only those vendors who qualify the BQC will be processed further. The price bids of only techno-commercially qualified bidders will be opened, evaluated and shortlisted for Placement of Work Order.
4. The bids submitted should be valid for **four months** from the due date of bid submission for Owner's acceptance. Once accepted it will remain firm till completion of contracts/orders.
5. We request the bidder to carefully go through all tender documents before submitting the offer. Please note that any exceptions or deviations to the tender document are necessarily to be recorded in the attached deviation statement only. Any exceptions/deviations brought out elsewhere in the bid shall not be considered.
6. The bidders may be invited for a presentation to DAFFPL during Techno-commercial evaluation before price bid opening.
7. The bidders to provide their bank details/ PAN / Goods & Service Tax Registration No. / VAT registration No., as applicable for updating vendor master file. You are also requested to keep us informed of any change in address / status of your business / contact details including email address etc.
8. Party can quote with the deviations as referred in Point No.5 above. Please refer query end date / time in tender calendar after which no query posted by bidder shall be considered. However, DAFFPL reserves the right to respond the queries after cutoff date / time mentioned in tender calendar.



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9. Please note that queries related to scope of job, tender specifications, terms & conditions etc., should be submitted on e-tender portal before the query closing date. Any modification in the bid document that may become necessary as a result of the Pre-Bid meeting shall be made by the owner exclusively through the issues of corrigendum/ addendum posted at e-tender portal.
10. UNSOLICITED POST BID MODIFICATION
Bidders are advised to quote strictly as per terms and conditions of the Bidding Document. After tender submission due date & time/ extended due date & time (as the case may be) the bidders shall not make any subsequent price changes, whether resulting or arising out of any technical / commercial clarifications sought/allowed on any deviations or exceptions mentioned in the bid.
11. EMD & Techno Commercial bid shall be opened on or after the date mentioned on tender opening date on e-tender portal. Price Bid of only those bidders whose offer is found meeting both BQC & techno-commercially acceptable, shall be opened on a later date as decided by DAFFPL.
12. DAFFPL reserves the right to accept any one or more tender in whole or in part or reject any or all tenders without assigning any reason. DAFFPL reserves right to accept any or more tenders in part. Decision of DAFFPL in this regard shall be final and binding on the bidder.

QUERIES AND CLARIFICATIONS: Any query or clarification with regard to this tender may please be referred to below address & phone nos. on any working day during office working hours.

Mr. Ajay Singh, Asst. Manager Projects, ajay.singh@daffpl.in , 9999946309,	Mr. Manish Kumar Asst. Manager Projects manish.kumar@daffpl.in , 9810640818	vishvajit@daffpl.in
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13. GOVERNING LAWS: The laws of Union of India shall govern all matters concerning the tender. Any issue arising related to the tender, or the selection process shall be adjudged by the courts in Delhi alone.
14. A Pre-bid meeting shall be conducted & is scheduled for **21st March 2023 at 1500 Hrs IST** at the office of DAFFPL, New Delhi. All prospective bidders can participate in the same. Any clarification regarding tender shall be sorted out during the pre-bid meeting.
- a. The purpose of the pre-bid meeting is to clarify any doubts of the BIDDER on the interpretation of the provisions of tender.



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- b. Bidder(s) are requested to submit their queries, mentioning form name, clause no. & clause as per schedule in order to have fruitful discussions during the meeting.
- c. All the Bidder(s) are requested to attend the pre-bid meeting to be held at DAFFPL Office as per schedule.

15. Earnest Money Deposit (EMD) (also referred to as Bid Security): Bidder shall be required to submit the Earnest Money Deposit (EMD), either in the form of Bank guarantee as per format (provided as Annexure) or bank transfer (IMPS/RTGS) in favor of Delhi Aviation Fuel Facility Private Limited. The EMD in either form has to be submitted on or before the due date & due time of bid submission of this tender with a covering note mentioning the tender no.

Direct bank transfer for Tender Fee and Earnest Money Deposit to DAFFPL account as detailed below. The UTR Reference and date shall be provided in the Tender portal for DAFFPL verification.

Name of Account	DELHI AVIATION FUEL FACILITY PRIVATE LTD.
Account No.	39040531887
Name of Branch	Corporate Accounts Group-II Branch, New Delhi
IFSC Code	SBIN0017313
SWIFT	SBININBB824
MICR	110002562
PAN	AAACS8577K
TAN	DELS55939C
BSR	0017313

- a. The bidders not submitting EMD by due time & date shall be rejected & their bids shall not be evaluated further.
- b. **The EMD amount shall be 1.0 (One) Lakh INR.**
- c. Firms registered with National Small-Scale Industries (NSIC)/MSME of India are exempted from submission of EMD/bid security. Central Public Sector Enterprises of India and Firms registered with Nation Small Scale Industries Corporation (NSIC) of India are exempted from submission of EMD. Central Public Sector Enterprises are requested to give a self-declaration on their letter head to this effect. Bidders registered with NSIC of India are also requested to submit self-declaration on their letter head to this effect along with a copy of their Valid Registration certificate.



16. Site Restriction: The job must be done in an area which is inside the premises of DAFFPL Fuel Facility. Successful bidder will have to follow all the security norms and procedures for entry and exit to the facility. The job timings will have to change as per the permissions obtained from Operation Dept. All the entry procedures for labours / machinery / raw materials as per the rules of the DAFFPL will have to be followed by the vendor. Contractor shall visit the site and ensure familiarity with the working condition / limitations at the site. Also, the entire works are to be carried out in an operating Location. The contractor may have to follow the timings of the facility and must work under restricted conditions. The normal working hours of facility is 0930 Hrs to 1800 Hrs on Monday to Saturday except holidays. Working beyond above normal working hours /holidays /Sundays are to be with prior permission of Engineer in charge and relevant facility officers. Contractor is required to plan his work within the normal working hours and days and accordingly he has to mobilize the resources to complete the job within the scheduled time. However, all efforts will be made by DAFFPL to give extended working time beyond normal working time in order to help the contractor for early completion of the job. No additional payment / charges shall be payable for such works. Not getting permission for working on holidays/ Sundays or beyond normal working hours will not be considered as reason for delay in work. The contractor and his personnel have to obey all rules and regulations of the plant. Trained and experienced supervisor/ engineer are required to be present at the work spot always.

Also, work may get delayed due to operational requirement. Any extra claims on account of the same will not be entertained. Fire Screen as required to be installed to completely seal the area under work.

The tenderer must visit the site of the tender and familiarize himself with location, operating / working conditions as well as any other local factors which could influence the working before quoting for the job. His quote should take care of any such restrictions; conditions etc. and any claim afterwards will not be entertained. **It is suggested that the Tenderer must visit the site in order to have a better idea of site conditions and factors.** It is strongly urged that the contractor visits DAFFPL terminal and examines the condition of site.

17. Completion Period: Time is the essence of the contract. The time period of contract is **06 (Six) months** from the date of Letter of Intent/notification of



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- award. The time includes necessary time required for mobilizations and demobilizations after the execution of work. Successful bidder is required to provide a bar chart /schedule and gantt chart showing the activities/events with time within 15 days from date of award of work. In case it is not submitted then work can be suspended till its submission. Also, the jobs may get delayed due to monsoon. Any extra claims on account of the same will not be entertained.
18. The above-mentioned contractual completion is inclusive of all the lead time for procurement of raw materials, inspection / testing, packing or any other activity whatsoever required to be accomplished to complete the work in all respect.
19. The work is required to be done in a working/operating location, the party has to get necessary Hot/cold work permits from the concerned officer in plant as per OISD standards and all workmen should be provided with necessary PPE (safety helmet, safety belts, safety shoes, electrical gloves etc.) and other standard safety equipment as may be required. Contractor to strictly follow safety norms of fuel farm. Any delay on account of non-adherence to safety norms, rules and regulations of plant as well as obtaining work permits from the plant shall not be accounted for the delay in completion of job.
20. **Receipt & storage of material at Site:** Contractor is required to make his own arrangement for unloading and storage of materials at site. Contractor is required to inform us prior to dispatch of materials and his representative required to be available for receipt and unloading of materials at site.
21. The successful vendor has to arrange and submit to fuel facility the proper **POLICE VERIFICATION DOCUMENTS** if required of all the labors, site in charges, supervisors, welders, grinders and all associated workmen who will be coming inside the terminal for carrying out related jobs.
22. For carrying out the jobs inside the depot the vendor must arrange for associated tools, tackles, manpower, machinery of his own and no extra payment will be made to vendor on account of the same.
23. All electrical works shall be carried out by qualified workers under supervision of class-A/valid electrical license holder.
24. For arranging the electricity vendor to note that only Acoustic Proof, box type DG sets will be allowed inside the depot premises. Vendor to also



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note that proper GI plate type earthing system as per IS 3042 (LATEST) has to be provided by the vendor for DG set and no extra payment will be done for the same. There should be two nos. earthing system connected in a grid at a location as instructed by DAFFPL site in-charge.

25. All the debris, scrap, cut pieces, excavated earth (Sand/soil) etc. coming out of fabricated plates, excavated earth, area cleaning will have to be shifted by the vendor to a location inside or outside the terminal premises or disposed off to a government approved site & as per government guidelines on the instruction of DAFFPL site in-charge and no extra payment will be done for the same.

THE FORMS /ATTACHMENTS TO THIS TENDER ARE AS UNDER:

1. Chapter 1 : Covering Note
2. Chapter 2 : Instructions To Bidders
3. Chapter 3 : Bid-Qualification Criteria
4. Chapter 4 : Performance of Work
5. Chapter 5 : General Purchase Conditions
6. Annexures attached are as follows:
 - Annexure A – Scope of Work & Technical Specification
 - Annexure I – DEVIATION SHEET
 - Annexure II – DECLARATION SHEET
 - Annexure III – FORMAT FOR DRAFT BANK GUARANTEE IN LIEU OF BID SECURITY (EMD)
 - Annexure IV - FORMAT DRAFT COMPOSITE BANK GUARANTEE FOR SECURITY DEPOSIT/PERFORMANCE GUARANTEE
 - Annexure V – FORM OF LETTER OF UNDERTAKING
 - Annexure VI – DECLARATION TO BE SUBMITTED ALONGWITH Technical BID
 - Annexure VII – STATEMENT OF CREDENTIALS
 - PRICE BID

Thanking you,
Yours faithfully,
For DELHI AVIATION FUEL FACILITY (P) LTD.
Chief Executive Officer



CHAPTER 2: INSTRUCTIONS TO BIDDERS

1. The bidder shall bear all costs associated with the preparation and submission of the bid and Owner will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.
2. The bidders should have valid class 3 Digital sign certificate with encryption.
3. Bidders are requested to register on our E-Tendering portal on <https://daffpl.enivida.com>
4. Bidder can contact on e-portal helpdesk numbers 011-49606060, 9355030617 during 9:30 hrs to 18:00 hrs for any query/assistance for registration & tender documents submission.
5. Vendor is requested to submit their bids taking full notice of all the technical specifications, terms and conditions, forms & attachments to this tender. Bids must be submitted only through e-Tender portal.
6. Owner reserves the right to accept / reject any or all bid qualification documents at their sole discretion without assigning any reason whatsoever.
7. Owner is not responsible for any delays from bidder end.
8. Owner reserves the right to make any changes in terms and conditions of purchase before due date of bid submission and to reject any or all bids received incomplete.
9. Undertaking by the bidder:
 - a. I/we hereby undertake that the statements made herein/information given in the bids through e-Tendering system/annexure/forms referred are true in all respects and that in the event of any such statement or information being found to be incorrect in any particular, the same may be construed to be a misrepresentation entitling DAFFPL to avoid any resultant contract.
 - b. I/we further undertake as and when called upon by DAFFPL to produce, for its inspection, original(s) of the document(s) of which copies have been annexed hereto.



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10. Owner, at its discretion reserves the right to verify information submitted by the bidders.
11. Bidder to submit documents/information to satisfy the bid qualification criteria. Bidders should also be able to produce further information as and when required by DAFFPL with in a time limit as specified by DAFFPL.
12. DAFFPL reserves their right to negotiate the quoted prices with lowest bidder.
13. Bidders would be qualified based on data and documents submitted by them.
14. Owner's decision on any matter regarding short listing of vendors shall be final and no corresponding in this regard will be entertained.
15. The vendors who are on IOCL/BPCL/DIAL holiday list or delisted will not be considered.
16. The bidder is expected to examine all instructions, forms, attachments, terms and specifications in the tender document. The entire tender document together with all its attachments thereto, shall be considered to be read, understood and accepted by the bidder, unless deviations are specifically stated seriatim by the bidder. Failure to furnish all information required in the tender document or submission of a bid not substantially responsive to the tender documents in every respect will be at bidder risk and may result in the rejection of his bid. The bidder scope of supplies as specified in the material requisition shall be in strict compliance with the scope detailed therein and in the bid document.
17. Bidders in their own interest shall ensure that they submit their bid, complete in all respects, well within the specified bid due date and time. No relaxation shall be given for delay due to any unforeseen event in submission of bid.
18. At any time prior to the bid due date, we may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bid document. The amendment will be notified through our portal for e-tender to all prospective bidders and will be binding on them. In order to afford prospective bidder, reasonable time in which to take the amendment into account in preparing their bids, we may, at our discretion, extend the bid due date.



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19. The bid prepared by the bidder and all correspondence/ drawings and documents relating to the bid exchanged by bidder and the owner shall be written in ENGLISH language, provided that any printed literature furnished by the bidder may be written in another language so long as accompanied by an ENGLISH translation, in which case, for the purpose of interpretation of the bid, the ENGLISH translation shall govern.
20. Declaration with the bid qualification criteria that bidder has not been banned or delisted by any Government or quasi Government agencies or Public Sector Undertaking (PSU) as per declaration format (provided as annexure) of the tender document should be submitted along with the bid.
21. Bidders are advised to submit bids based strictly on the terms & conditions and specifications contained in the tender document and not to stipulate any deviations. Each Bidder shall submit only one bid. A Bidder who submits more than one bid will be rejected. Alternative bids will not be accepted.
22. The Owner may, at its discretion, extend the bid due date, in which case all rights and obligations of the Owner and the Bidders, previously subject to the bid due date, shall thereafter be subject to the new bid due date as extended. The same will be hosted in the e-tendering portal.
23. Bids shall be kept valid for 4 months from the bid due date. A bid valid for a shorter period shall be considered as non-responsive and rejected by the Owner. Notwithstanding above, the Owner may solicit the Bidder consent to an extension of the period of bid validity. The request and the responses thereto shall be made in writing. The EMD (bid security) shall also be accordingly extended.
24. Telex/ Telegraphic/ Telefax / E-mail/Physical offers will not be considered and shall be rejected.
25. No bid shall be modified subsequent to the due date & time or extension, if any, for submission of bids. Bidder(s) to note that Price changes after submission of bid shall not be allowed. In case any bidder gives revised prices/price implication, his bid shall be rejected. No bid shall be allowed to be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder. Withdrawal of a bid during this interval shall result in the forfeiture



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of Bidder s EMD.

26. Bids that do not meet the Bid qualification criteria as specified in the bid document shall be rejected. A bid with incomplete scope of work and/or which does not meet the technical requirements as specified in the bid document, shall be considered as non-responsive and rejected. Conditional bids will be liable for rejection.
27. The Owner will examine the bids to determine whether they are complete, whether any computational errors have been made, whether the documents have been properly signed and whether the bids are generally in order.
28. The bids without requisite EMD and/or not in the prescribed Performa and the time limit will not be considered and bids of such bidder(s) shall be rejected.
29. PRICE EVALUATION CRITERIA: As award is on overall landed lowest basis, part offers will be rejected. Bidder has to quote for all items in a lot for us to consider them.
30. Prior to the expiration of period of bid validity, the owner will notify the successful bidder in writing or by e-mail, that his bid has been accepted. The Notification of Award will constitute the formation of the Contract. Delivery Period shall be counted from the date of notification of award (Letter/Fax/e-mail of Intent).
31. Any efforts by a bidder to influence the owner/ in the owner bid evaluation, bid comparison or contract award decisions may result in the rejection of their bid.
32. ISSUE OF CONTRACT/ PURCHASE ORDER: After the successful bidder has been notified that his bid has been accepted, DAFFPL will send to such bidder a detailed contract/purchase order incorporating all the terms and conditions agreed between the parties. Within 05 days of receipt of the detailed purchase order, the bidder shall sign and return to the owner the duplicate copy of the order as a token of their acknowledgement.
33. Vigil Mechanism: DAFFPL has developed the Vigil Mechanism to deal with references/ grievances, if any, that is received from bidders who participated / intends to participate in the tender. The details of the



same are available on our website www.daffpl.in

34. VERIFICATION BY OWNER: All statements submitted by bidder regarding experience, manpower availability, equipment and machinery availability etc., are subject to verification by the owner either before placement of order or after placement of order. If any data submitted by the bidder at the bid stage is found to be incorrect, the offer is liable to be rejected or the contract/order is liable to be terminated.

35. EVALUATION OF BIDS

- a. Qualification of Bidder: The experience details and financial & technical capabilities of the bidder(s) shall be examined to determine whether the bidder(s) meet the Bid Qualification Criteria mentioned in the INVITATION FOR BIDS (IFB).
- b. The Owner will examine the bids to determine whether they are complete & if they are free of any computational errors, whether the documents have been properly signed and whether the bids are generally in order.
- c. The bids without requisite Bid Security and/or not in the prescribed proforma will not be considered and bids of such bidder Bidder(s) shall be rejected.
- d. To assist in the examination, evaluation and comparison of technical bids, the owner/ may, at its discretion, ask the Bidder clarifications on the bid. The request for such clarifications and the response thereto shall be through the e-tendering portal.
- e. Prior to the evaluation and comparison of the bid, the owner will determine the substantial responsiveness of each bid to the bidding documents. For the purpose of this Article, a substantially responsive bid is one, which conforms to all the terms and conditions of the bidding document without material deviations or reservations. A material deviation or reservation is one which affects in any substantial way the scope, quality, or performance of the works or which limits in any substantial way, inconsistent with the bidding document, the DAFFPL's rights or Bidder's obligation under the contract and retention of which deviation or reservation would affect unfairly the competitive position of other bidders presenting substantially responsive bids. The owner's determination of bid responsiveness is to be based on the contents of the bid itself without recourse to the extrinsic evidence.
- f. A bid determined as substantially non-responsive after final



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evaluation will be rejected by the Owner and shall not subsequently be allowed by the Owner to be made responsive by the Bidder by correction of the non-conformity.

- g. The Bidders qualifying the initial criteria as set out will be evaluated for the following criteria by scoring method based on details furnished by them.

DAFFPL, however, reserves the right to restrict the list of such qualified contractors to any number deemed suitably by it.

Note:

- 1) **The Bid Shall be submitted in English Language Only**
- 2) **For any Document submitted in any language other than English, the translation copy in English language shall be submitted.**

CHAPTER 3: BID-QUALIFICATION CRITERIA

Bidders need to meet following pre-qualification criteria to qualify for short-listing as a successful vendor for this tender;

➤ **Technical Criteria:**

The bidder shall have satisfactorily executed either of the following during the last 7 years ending 28/02/2023:

The Bidder should have completed at least **one similar work**, costing not less than **INR 73.03 LAKHS.**

OR

The Bidder should have completed at least **two similar works**, each costing not less than **INR 45.65 LAKHS.**

OR

The Bidder should have completed at least **three similar works**, each costing not less than **INR 36.52 Lakhs.**

Notes:

- a. Similar works means Electrical/Electrical & Instrumentation works including minimum one line item/work at 11KV level.
- b. Bidder shall submit order copies w.r.t. above mentioned criteria.
- c. Bidder to submit work completion certificates/proof of work executed against orders submitted by them



FINANCIAL CAPACITY

Bidder shall have minimum average annual turnover of **Rs. 30.00 Lakhs** as per audited financial results in the preceding three financial/calendar years. "Turnover shall mean Consolidated Turnover in case of a Bidder having wholly owned subsidiaries"

Bidder

Note: Turnover for this purpose should be as per audited P&L statement including Balance Sheet/ Published Account/ Profit & Loss Account Statement of the tenderer. However, if the tenderer is not required to get its accounts audited under Section 44AB of the Income Tax Act, 1961, (Applicable for FY21-22 as well, in case financial statement of bidder has not been audited at the time of submission of bids) certificate from a practicing Chartered Accountant towards the turnover of the tenderer along with copies of its income tax return should be obtained.

Total revenue as per schedule III of companies' act, 2013 (earlier revised schedule VI of companies Act, 1956) shall be considered as Turnover. Audited balance sheet / published accounts on calendar year basis shall also be acceptable. The financial statements copy must bear the registration number of the authorised chartered accountant and its seal. (This is not applicable for published annual reports).

- Both the above criteria (Technical & Financial) to be met for acceptance of the bid.

OTHER INFORMATION OF BQC

1. Parties who are affiliates of one another can decide which affiliate will make a bid. Only one affiliate may submit a bid. Two or more affiliates are not permitted to make separate bids directly or indirectly. If 2 or more affiliates submit a bid, then any one or all of them are liable for disqualification. However up to 3 affiliates may make a joint bid as a consortium, and in which case the conditions applicable to a consortium shall apply to them. "Affiliate" of a Party shall mean any company or legal entity which:
 - a. Controls either directly or indirectly a Party, or
 - b. Which is controlled directly or indirectly by a Party; or



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- c. Is directly or indirectly controlled by a company, legal entity or Partnership which directly or indirectly controls a Party. "Control" means actual control or ownership of at least a 50% voting or other controlling interest that gives the power to direct, or cause the direction of, the management and material business decisions of the controlled entity.
2. Bids may be submitted by:
 - a. A single person/ entity (called sole bidder):
 - b. A newly formed incorporated joint venture (JV) which has not completed 3 financial years from the date of commencement of business;
 - c. A consortium (including an unincorporated JV) having a maximum of 3 (three) members;
 - d. An Indian arm of a foreign company.
3. Fulfillment of Eligibility criteria and certain additional conditions in respect of each of the above 4 types of bidders are stated below, respectively:
 - a. The sole bidder (including an incorporated JV which has completed 3 financial years after date of commencement of business) shall fulfill each eligibility criteria.
 - b. In case the bidder is a newly formed and incorporated joint venture and which has not completed three financial years from the date of commencement of business, then either the said JV shall fulfill each eligibility criteria or any one constituent member/promoter of such a JV shall fulfill each eligibility criteria. If the bid is received with the proposal that one constituent member/promoter fulfils each eligibility criteria, then this member/promoter shall be clearly identified and he/it shall assume all obligations under the contract and provide such comfort letter/guarantees as may be required by Owner. The guarantees shall cover inter alia the commitment of the member/ promoter to complete the entire work in all respects and in a timely fashion, being bound by all the obligations under the contract, an undertaking to provide all necessary technical and financial support to the JV to ensure completion of the contract when awarded, an undertaking not to withdraw from the JV till completion of the work, etc.
 - c. In case the bidder(s) is/are a consortium (including an unincorporated JV), then the following conditions shall apply:
 - I. Each member in a consortium may only be a legal entity and not an individual person;
 - II. The Bid shall specifically identify and describe each member of the consortium;
 - III. the consortium member descriptions shall indicate what



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- type of legal entity the member is and its jurisdiction of incorporation (or of establishment as a legal entity other than as a corporation) and provide evidence by a copy of the articles of incorporation (or equivalent documents);
- IV. One participant member of the consortium shall be identified as the "Prime member" and contracting entity for the consortium;
 - V. This prime member shall be solely responsible for all aspects of the Bid/ Proposal including the execution of all tasks and performance of all consortium obligations;
 - VI. The prime member shall fulfill each eligibility criteria;
 - VII. a commitment shall be given from each of the consortium members in the form of a letter signed by a duly authorized officer clearly identifying the role of the member in the Bid and the member's commitment to perform all relevant tasks and obligations in support of the
 - VIII. Prime/lead member of the Consortium and a commitment not to withdraw from the consortium;
 - IX. No change shall be permitted in the number, nature or share holding pattern of the Consortium members after pre-qualification, without the prior written permission of the Owner.
 - X. No change in project plans, timetables or pricing will be permitted as a consequence of any withdrawal or failure to perform by a consortium member;
 - XI. Entities which are affiliates of one another are allowed to bid either as a sole bidder or as a consortium only;
 - XII. Any person or entity can bid either singly or as a member of only one consortium.
- d.** In case the bidder is an Indian arm (subsidiary, authorized agent, branch office or affiliate) of a foreign bidder, then the foreign bidder shall have to full fill each eligibility criteria. If such foreign company desires that the contract be entered into with the Indian arm, then a proper back to back continuing (parent company) guarantee shall be provided by the foreign company clearly stating that in case of any failure of any supply or performance of the equipment, machinery, material or plant or completion of the work in all respects and as per the warranties/ guarantees that may have been given, then the foreign company shall assume all obligations under the contract. Towards this purpose, it shall provide such comfort letter/guarantees as may be required by



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Owner. The guarantees shall cover inter alia the commitment of the foreign company to complete the entire work in all respects and in a timely fashion, being bound by all the obligations under the contract, an undertaking to provide all necessary technical and financial support to the Indian arm or to render the same themselves so as to ensure completion of the contract when awarded, an undertaking not to withdraw from the contract till completion of the work, etc.

CHAPTER 4: PERFORMANCE OF WORK

1. EXECUTION OF WORKS:

- a. The Bidder shall quote for the entire Works, such that the total Tender (lump sum) price inter-alia covers break ups of the price of all cost centres and applicable taxes thereon, if any, along with all its risks, obligations and liabilities set out in or to be reasonably inferred from the Tender Documents in respect of the procurement, supply, construction, erection, installation, setting to work, testing, pre commissioning, successful commissioning and completion of the Works, all in accordance with the requirements of the tender and applicable laws. All the works shall be executed in strict conformity with the provisions of the contract documents and with such explanatory detailed drawings, specifications, and instructions as may be. The contractor shall be responsible for ensuring that works throughout are executed in the most substantial, proper and workman like manner with the quality of material and workmanship in strict accordance with the specifications following all safety requirements and to the entire satisfaction of the DAFFPL.

The bidders are required to note that the contract shall be awarded and the works shall be executed on a lump sum price basis and not on unit rate basis and the unit rates provided in the bill of quantities have been provided only for the purpose of providing the basis of deriving the lump sum price. bidders must note that the bill of quantities is solely for guidance purposes.

- b. Wherever it is mentioned in the specifications that the Contractor shall perform certain work or provide certain facilities/materials, it is understood that the contractor shall do, so at his cost unless otherwise specified.



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- c. The materials, design and workmanship shall satisfy the relevant Indian Standards, the Job specification contained herein and codes referred to. Where the job specification stipulate requirements in addition to those contained in the standards codes and specifications, these additional requirements shall also be satisfied.
2. MATERIALS TO BE SUPPLIED BY CONTRACTOR:
- a. The contractor shall procure and provide the whole of the materials required to complete the job including tools, tackles and equipment etc. The materials procured by the contractor shall be DAFFPL approved/specified quality.
- b. All materials procured/used should meet the specifications given in the tender document. The Engineer-in-Charge may, at his discretion, ask for samples and test certificates for any batch of any material. Before procuring, the contractor should get the approval of Engineer-in-Charge for any material to be used for the works.
- c. Manufacturer's certificate shall be submitted for all materials supplied by the contractor. If, however, in the opinion of the Engineer-in-Charge any tests are required to be conducted on the materials supplied by the contractor, these will be arranged by the contractor promptly at his own cost.
3. EXECUTION OF WORKS:
- a. All the works shall be executed in strict conformity with the provisions of the contract documents and with such explanatory detailed drawings, specifications, and instructions as may be furnished from time to time to the contractor by the Engineer-in-Charge whether mentioned in the contract or not. The contractor shall be responsible for ensuring that works throughout are executed in the most substantial, proper and workman like manner with the quality of material and workmanship in strict accordance with the specifications following all safety requirements of DAFFPL and as stipulated in work permits as per the directions and to the entire satisfaction of the Engineer-in-Charge.
- b. Wherever it is mentioned in the specifications that the Contractor shall perform certain work or provide certain facilities/materials, it is understood that the contractor shall do, so at his cost unless otherwise specified.
- c. The materials, design and workmanship shall satisfy the relevant Indian Standards, the Job specification contained herein and codes



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referred to. Where the job specification stipulate requirements in addition to those contained in the standards codes and specifications, these additional requirements shall also be satisfied.

4. COORDINATION AND INSPECTION OF WORK:

The coordination and inspection of the day-to-day work under the contract shall be the responsibility of the Engineer-in-Charge. The written instructions regarding any particular job will be normally be passed by the Engineer-in-Charge or his authorized representative. A work order book / logbook will be maintained by the Contractor for each job in which the aforesaid written instructions will be entered. These will be signed by the contractor or his authorized representative by way of acknowledgment within 12 hours. The non-maintaining of the order book or non-signing by the contractor shall not preclude the contractor from complying with the instructions.

5. WORK IN MONSOON AND DEWATERING:

- a. The completion of the work may entail working in the monsoon also. The contractor must maintain a minimum labour force as may be required for the job and plan and execute the construction and erection according to the prescribed schedule. No extra rate will be considered for such work in monsoon.
- b. During monsoon and other period, it shall be the responsibility of the contractor to keep the construction work site free from water at his own cost.

6. WORK ON SUNDAYS AND HOLIDAYS:

For carrying out work on Sundays and Holidays if needed, the contractor will approach the Engineer-in-Charge or his representative at least two days in advance and obtain permission in writing. No special compensation on this account will be payable.

7. GENERAL CONDITIONS FOR CONSTRUCTION AND ERECTION WORK:

- a. Place of Work: The work has to be executed at specified premises as per the tender. Contractor should apprise himself of all the conditions prevailing in such location and the restrictions placed on movement of personnel and equipment, types of equipment and tools permitted, working methods allowed etc. in the light of security and safety regulations operative in the area. The safety regulations to be complied with, by the contractor will also be provided along with the tender. No idle time wages or compensation for temporary



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stoppage of work or restrictions would be paid, and the rate quoted for the various items of work should cover the cost of all such contingencies and eventualities. Substantial structures and utilities exist both above ground and underground, adjacent to the work site. (The construction activity gets restrained by the existence of such structures and utilities). Special care is necessary in transportation, storage, working on equipment's and other construction activities to protect the existing features and prevent damage to any facility. Necessary protective structures barricades etc. have to be erected at various places as directed by Engineer-in-Charge. No extra payment of such protective works will be made unless specially provided in the tender.

- b. The working time or the time of work is 48 hours per week normally. Overtime work is permitted in cases of need and the Owner will not compensate the same. Shift working at 2 or 3 shifts per day may become necessary and the contractor should take this aspect into consideration for formulating his rates for quotation. No extra claims will be entertained by the Owner on this account.
- c. The contractor must arrange for the placement of workers in such a way that the delayed completing of the work or any part thereof for any reasons whatsoever will not affect their proper employment. The Owner will not entertain any claim for idle time payment whatsoever.
- d. The contractor shall submit to the Owner reports at regular intervals regarding the state and progress of work. The details and preforma of the report will mutually be agreed after the award of contract.

8. DRAWINGS TO BE SUPPLIED BY THE OWNER:

- a. Where drawings are attached with tender, these shall be for the general guidance of the contractor to enable him to visualize the type of work contemplated and scope of work involved. The contractor will be deemed to have studied the drawings and formed an idea about the work involved.
- b. Detailed working drawings on the basis of which actual execution of the work is to proceed will be furnished from time to time during the progress of the work. The contractor shall be deemed to have gone through the drawings supplied to him thoroughly and carefully and in conjunction with all other connected drawings and bring to the notice of the Engineer-in-Charge, discrepancies, if any, therein before actually carrying out the work.
- c. Copies of all detailed working drawings relating to the works shall be kept at the contractor's office of the site and shall be made



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available to the Engineer-in-Charge at any time during the contract. The drawings and other documents issued by the Owner shall be returned to the Owner on completion of the works.

9. SETTING OUT WORKS:

- a. The Engineer-in-Charge shall furnish the contractor with only the four corners of the work site and a level bench mark and the contractor shall set out the works and shall provide efficient staff for the purpose and shall be solely responsible for the accuracy of such setting out.
- b. The contractor shall provide, fix and be responsible for the maintenance of all stacks, templates, level marks, profiles and other similar things and shall take all necessary precaution to prevent their removal or disturbance and shall be responsible for the consequence of such removal or disturbance should the same take place and for their efficient and timely reinstatement. The contractor shall also be responsible for the maintenance of all existing survey marks, boundary marks, distance marks and centre line marks, either existing or supplied and fixed by the contractor. The work shall be set out to the satisfaction of the Engineer-in-Charge. The approval thereof or joining in setting out the work shall not relieve the contractor of any of his responsibilities.
- c. Before beginning the works, the contractor shall at his own cost, provide all necessary reference and level posts, pegs, bamboos, flags, ranging rods, strings and other materials for proper layout of the work in accordance with the scheme, for bearing marks acceptable to the Engineer-in-Charge. The centre, longitudinal or face lines and cross lines shall be marked by means of small masonry pillars. Each pillar shall have distinct marks at the centre to enable theodolite to be set over it. No work shall be started until all these points are checked and approved by the Engineer-in-Charge in writing but such approval shall not relieve the contractor of any of his responsibilities. The contractor shall also provide all labour, material and other facilities, as necessary, for the proper checking of layout and inspection of the points during construction.
- d. Pillars bearing geodetic marks located at the site of work under construction should be protected and fenced by the contractor.
- e. On completion of works, the contractor must submit the geodetic documents according to which the work was carried out.

10. RESPONSIBILITY FOR LEVEL AND ALIGNMENT:



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The contractor shall be entirely and exclusively responsible for the horizontal and vertical alignment, the levels and correctness of every part of the work and shall rectify effectually any errors or imperfections therein. Such rectifications shall be carried out by the contractor, at his own cost, when instructions are issued to that effect by the Engineer-in-Charge.

11. MATERIALS TO BE SUPPLIED BY CONTRACTOR:

- d. The contractor shall procure and provide the whole of the materials required for construction including tools, tackles, construction plant and equipment for the completion and maintenance of the works except the materials which will be issued by Owner and shall make his own arrangement for procuring such materials and for the transport thereof. The materials procured by the contractor shall be DAFFPL approved/specified quality.
- e. All materials procured should meet the specifications given in the tender document. The Engineer-in-Charge may, at his discretion, ask for samples and test certificates for any batch of any material procured. Before procuring, the contractor should get the approval of Engineer-in-Charge for any material to be used for the works.
- f. Manufacturer's certificate shall be submitted for all materials supplied by the contractor. If, however, in the opinion of the Engineer-in-Charge any tests are required to be conducted on the materials supplied by the contractor, these will be arranged by the contractor promptly at his own cost.

12. MATERIALS SUPPLIED BY OWNER:

- a. If the specifications of the work provides for the use of any materials of special description to be supplied from the Owner's stores, price for such material to be charged therefore as herein after mentioned being so far as practicable for the convenience of the contractor but not so as in any way to control the meaning or effect of the contract. The contractor shall be bound to purchase and shall be supplied such materials as are from time to time required to be used by him for the purpose of the contract only. The sums due from the contractor for the value of the actual materials supplied by the Owner will be recovered from the running account bill on the basis of the actual consumption of materials in the work covered and for which the running account bill has been prepared. After the completion of the works, however, the contractor has to account for the full quantity of materials supplied to him as per relevant clauses in this document.



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- b. The value of the materials as may be supplied to the contractor by the Owner will be debited to the contractor's account at the rates shown in the schedule of chargeable materials and if they are not entered in the schedule, they will be debited at cost price, which for the purpose of the contract shall include the cost of carriage and all other expenses whatsoever such as normal storage supervision charges which shall have been incurred in obtaining the same at the Owner's stores. All materials so supplied to the contractor shall remain the absolute property of the Owner and shall not be removed on any account from the site of the work, and shall be at all times open for inspection to the Engineer-in-Charge. Any such materials remaining unused at the time of completion or termination of the contract shall be returned to the Owner's stores or at a place as directed by the Engineer-in-Charge in perfectly good condition, at contractor's cost.

13. CONDITIONS FOR ISSUE OF MATERIALS:

- a. Materials specified to be issued by the Owner will be supplied to the contractor by the Owner from his stores/location. It shall be the responsibility of the contractor to take delivery of the materials and arrange for its loading, transport and unloading at the site of work at his own cost. The materials shall be issued between the working hours and as per the rules of the Owner framed from time to time.
- b. The contractor shall bear all incidental charges for the storage and safe custody of materials at site after these have been issued to him.
- c. Materials specified to be issued by the Owner shall be issued in standard sizes as obtained from the manufacturer.
- d. The contractor shall construct suitable godown at the site of work for storing the materials safe against damage by rain, dampness, fire, theft etc. He shall also employ necessary watch and ward establishment for the purpose.
- e. It shall be duty of the contractor to inspect the material supplied to him at the time of taking delivery/bidding for these works and satisfy himself that they are in good condition. After the materials have been delivered by the Owner, it shall be the responsibility of the contractor to keep them in good condition and if the materials are damaged or lost, at any time, they shall be repaired and/ or replaced by him at his own cost, according to the directions of the Engineer-in-Charge.
- f. The Owner shall not be liable for delay in supply or non-supply of any materials which the Owner has undertaken to supply where such failure or delay is due to natural calamities, act of enemies, transport



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and procurement difficulties and any circumstances beyond the control of the Owner. In no case, the contractor shall be entitled to claim any compensation or loss suffered by him on this account.

- g. It shall be the responsibility of the contractor to arrange in time all materials required for the works other than those to be supplied by the Owner. If, however, in the opinion of the Engineer-in-Charge the execution of the work is likely to be delayed due to the contractor's inability to make arrangements for supply of materials which normally he has to arrange for, the Engineer-in-Charge shall have the right, at his own discretion, to Issue such materials If available with the Owner or procure the materials from the market or elsewhere and the contractor will be bound to take such materials at the rates decided by the Engineer-in-Charge. This, however, does not in any way absolve the contractor from responsibility of making arrangements for the supply of such materials in part or in full, should such a situation occur, nor shall this, constitute a reason for the delay in the execution of the work.
- h. None of the materials supplied to the contractor will be utilized by the contractor for manufacturing item, which can be obtained from standard manufacturer in finished form.
- i. The contractor shall, if desired by the Engineer-in-Charge, be required to execute an indemnity bond for safe custody and accounting of all materials issued by the Owner.
- j. The contractor shall furnish to the Engineer-in-Charge sufficiently in advance a statement showing his requirements of the quantities of the materials to be supplied by the Owner and the time when the same will be required by him for the works, so as to enable the Engineer-in-Charge to make necessary arrangement for procurement and supply of the material.
- k. A daily account of the materials issued by the Owner shall be maintained by the contractor indicating the daily receipt, consumption and balance in hand. This account shall be maintained in a manner prescribed by the Engineer-in-Charge along with all connected papers viz. requisition, issues etc. and shall be always available for inspection in the contractor's office at site.
- l. The contractor should see that only the required quantities of materials are got issued. The contractor shall not be entitled to cartage and incidental charges for returning the surplus materials, if any, to the stores/location where from they were issued or to the place as directed by the Engineer-in-Charge.
- m. Materials/ Equipment supplied by Owner shall not be utilized for any other purpose(s) than issued for.



14. MATERIALS PROCURED WITH ASSISTANCE OF OWNER:

Notwithstanding anything contained to the contrary in any or all the clause of this document where any materials for the execution of the contract are procured with the assistance of Owner either by issue from Owner's stock or purchase made under orders or permits or licences issued by Government, the contractor shall hold the said materials as trustee for the Owner and use such materials economically and solely for the purpose of the contract and not dispose them off without the permission of the owner and return, if required by the Engineer-in-Charge, all surplus or unserviceable materials that may be left with him after the completion of the contract or at its termination for any reason, whatsoever on his being paid or credited such prices as the Engineer in-Charge shall determine having due regard to the condition of the materials. The price allowed to the contractor however, shall not exceed the amount charged to him excluding the storage charges if any. The decision of the Engineer-in- Charge shall be final and conclusive in such matters. In the event of breach of the aforesaid condition, the contractor shall in terms of the licenses or permits, and/or for criminal breach of trust, be liable to compensate the Owner a double rate or high rate, in the event of those materials at that time having higher rate or not being available in the market, then any other rate to be determined by the Engineer-in-Charge and his decision shall be final and conclusive.

15. MATERIALS OBTAINED FROM DISMANTLING:

If the contractor in the course of execution of the work is called upon to dismantle any part for reasons other than those stipulated in clauses 64 & 68 hereunder, the materials obtained in the work of dismantling etc. will be considered as the Owner's property and will be disposed off to the best advantage of the Owner.

16. ARTICLES OF VALUE FOUND:

All gold, silver and other materials, of any description and all precious stones, coins, treasure relics, antiquities and other similar things which shall be found in, under or upon the site, shall be property of the Owner and the contractor shall duly preserve the same to the satisfaction of the Engineer-in-Charge and shall from time to time deliver the same to such person or person indicated by the Owner.

17. DISCREPANCIES BETWEEN INSTRUCTIONS:

Should any discrepancy occur between the various instructions furnished to the contractor, his agents or staff or any doubt, arise as to the meaning



of any such instructions or should there be any misunderstanding between the contractor's staff and the Engineer-in-Charge's staff, the contractor shall refer the matter immediately in writing to the Engineer-in-Charge whose decision thereon shall be final and conclusive and no claim for losses alleged to have been caused by such discrepancies between instructions, or doubts, or misunderstanding shall in any event be admissible.

18. ALTERATIONS IN SPECIFICATIONS AND DESIGNS AND EXTRA WORK:

- a. The Engineer-in-Charge shall have power to make any alterations in, omissions from, additions to or substitutions for, the schedule of rates, the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work and the contractor shall be bound to carry out such altered / extra / new items of work in accordance with any instructions which may be given to him in writing signed by the Engineer-in-Charge and such alterations, omissions, additions or substitutions shall not invalidate the contract and any altered additional or substituted work which the contractor may be directed to do in the manner above specified as part of the work shall be carried out by the contractor on the same conditions in all respect on which he agree to do the main work. The time for completion of work may be extended for the part of the particular job at the discretions of the Engineer-in-Charge, for only such alteration, additions or substitutions of the work, as he may consider as just and reasonable. The rates for such additional, altered or substituted work under this clause shall be worked out in accordance with the following provisions:

Works defined/showcased/depicted in drawings/scope of works/indicative BOQs/specifications if altered while construction at site shall not constitute as "additional work". "Additional work" shall only be the works which are not defined in the above-mentioned documents.

- If the rates for the additional, altered or substituted work are specified in the contract for the work, the contractor is bound to carry out the additional, altered or substituted work at the same rates as are specified in the contract.
- If the rates for the additional, altered or substituted work are not specifically provided in the contract for the work, the rates



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will be derived from the rates for similar class of works as specified in the contract for the work. The opinion of the Engineer-in-Charge as to whether the rates can be reasonably so derived from items in the contracts will be final and binding on the contractor.

19. ACTION WHERE NO SPECIFICATIONS ISSUED:

In case of any class of work for which there is no such specification given by the Owner in the tender documents, such work shall be carried out in accordance with Indian Standard Specifications and if the Indian Standard Specifications do not cover the same the work should be carried out as per standard Engineering Practice subject to the approval of the Engineer-in-Charge.

20. ABNORMAL RATES:

The contractor is expected to quote rate for each item after analysis of cost involved for the completion of item/work, considering all specifications and conditions of contract. This will avoid loss of profit or gain, in case of curtailment or change of specification for any item. In case it is noticed that the rates for any item, quoted by the tenderer unusually are high or unusually low it will be sufficient cause for the rejection of the tender unless the Owner is convinced about the reasonableness of the rates on scrutiny of the analysis for such rate to be furnished by the tenderer on demand.

21. INSPECTION OF WORK:

- a. The Engineer-in-Charge will have full power and authority to inspect the works at any time wherever in progress either on the Site or at the contractor's premises / workshop where situated premises /workshops of any person, firm or corporation where work in connect with the contract may be in hand or where materials are being or are to be supplied, and the contractor shall afford or procure for the Engineer-in-Charge every facility and assistance to carry out such Inspection. The contractor shall at all time during the usual working hours and at all other time for which reasonable notice of the intention of the Engineer in-Charge or his representative to visit the works have been given to the contractor, either himself be present to receive order and instructions or post a responsible agent duly accredited in writing for the purpose. Orders given to the contractor's agent shall be considered to have the same force as if they had been given to the contractor himself. The contractor shall give not less than seven days, notice in writing to



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the Engineer-in-Charge before covering up or placing any work beyond reach of inspection and measurement any work in order that the same may be inspected and measured. In the event of breach of above the same shall be uncovered at contractor's expense carrying out such measurement or inspection.

- b. No materials shall be dispatched by the contractor before obtaining the approval of Engineer-in-Charge in writing. The contractor is to provide at all times during the progress of the work and the maintenance period, proper means of access with ladders, gangways, etc. and the necessary attendance to move and adopt as directed for inspection or measurement of the works by the Engine in-Charge.

22. ASSISTANCE TO THE ENGINEERS:

The contractor shall make available to the Engineer-in-Charge, free of cost necessary instruments and assistance in checking of setting out of works and taking measurement of work.

23. TESTS FOR QUALITY OF WORKS:

- a. All workmanship shall be of the respective kinds described in the contract documents and in accordance with the instructions of the Engineer-in-Charge and shall be subjected from time to time to such test at contractor's cost as the Engineer-in-Charge may direct at place of manufacture or fabrication or on the site or at all or any such places. The contractor shall provide assistance, instruments, labour and materials as are normally required for examining, measuring and testing any workmanship as may be selected and required the Engineer-in-Charge.
- b. All the tests necessary in connection with the execution of the work as decided by Engineer-in-Charge shall be carried out at the field testing laboratory of the Owner by paying the charges as decided by the Owner from time to time. In case of non-availability of test facility with the Owner, the required test shall be carried out at the cost of contractor at government or any other testing laboratory as directed by Engineer-in-Charge.
- c. If any tests are required to be carried out in connection with the work or materials workmanship not supplied by the contractor, such tests shall be carried out by the contractor as per the instructions of Engineer-in-Charge and cost of such tests shall be reimbursed by the Owner.

24. SAMPLES:



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The contractor shall furnish to the Engineer-in-Charge for approval when requested or if required by the specifications, adequate samples of all materials and finishes to be used in the work. Such samples shall be submitted before the work is commenced and in ample time to permit tests and examinations thereof. All materials furnished and finishing applied in actual work shall be fully identical to the approval samples.

25. ACTION AND COMPENSATION IN CASE OF BAD WORK:

If it shall appear to the Engineer-in-Charge that any work has been executed with unsound, imperfect or unskilled workmanship or with materials of any inferior description, or that any materials or articles provided by the contractor for the execution of the work are unsound or of a quality inferior to that contracted for, or otherwise not in accordance with the contract, the contractor shall on demand in writing from the Engineer-in-Charge or his authorized representative, specifying the work, materials or articles complained of, notwithstanding that the same have been inadvertently passed, certified and paid for forthwith shall rectify or remove and reconstruct the works specified and provide other proper and suitable materials or articles at his own charge and cost, and in the event of failure to do so within a period to be specified by the Engineer-in-Charge in his demand aforesaid, the contractor shall be liable to pay compensation at the rate of 0.5% of the estimated cost of the whole work, for every week limited to a maximum of 10% of the estimated cost of the whole work, while his failure to do so shall continue and in the case of any such failure the Engineer-in-Charge may on expiry of notice period rectify or remove and re-execute the work or remove and replace with others, the materials or articles complained of as the case may be at the risk and expenses of the contractors in all respects. The decision of the Engineer-in-Charge as to any question arising under this clause shall be final and conclusive.

26. SUSPENSION OF WORKS:

The contractor shall, if ordered in writing by the Engineer-in-Charge or his representative, temporarily suspend the works or any part thereof for such period and such time as so ordered and shall not, after receiving such written order, proceed with the work therein ordered to be suspended, until he shall have received a written order to proceed therewith. The contractor shall not be entitled to claim/ compensation for any loss or damage sustained by him by reason of temporary suspension of the works aforesaid. An extension of time for completion, corresponding with the delay caused by any such suspension of the works as aforesaid will be granted to the contractor, should he apply for the same, provided that



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suspension was not consequent to any default or failure on the part of the contractor.

27. OWNER MAY DO PART OF WORK:

Upon failure of the contractor to comply with any instructions given in accordance with the provisions of the contract, the owner has the alternative right, instead of assuming charge for entire work to place additional labour force, tools, equipments and materials on such parts of the work, as the owner may designate or also engage another contractor to carry out the work. In such cases, the owner shall deduct from the amount which otherwise might become due to the contractor, the cost of such work and materials with ten percent added to cover all departmental charges and should the total amount thereof exceed the amount due to the contractor, the contractor shall pay the difference to the owner.

28. POSSESSION PRIOR TO COMPLETION:

The Engineer-in-Charge shall have the right to take possession of or use any completed or partially completed work or part of the work. Such possessions or use shall not be deemed to be an acceptance of any work completed in accordance with the contract agreement. If such prior possession or use by the Engineer-in-Charge delays the progress of work, suitable adjustment in the time of completion will be made and contract agreement shall be deemed to be modified accordingly.

29. PERIOD OF LIABILITY FROM THE DATE OF COMPLETION OF WORK:

- a. The contractor shall guarantee the installation/site work for a period of 12 (twelve) Months from the date of completion of work, unless otherwise specified. Any damage that may lie undiscovered at the time of issue of completion certificate, connected in any way with the equipment or materials supplied by him or in the workmanship shall be rectified or replaced by the contractor at his own expense as deemed necessary by the Engineer-in-Charge or in default, the Engineer-in-Charge may cause the same to be made good by other workmen and deduct expenses (for which the certificate of Engineer-in-Charge shall be final) from any sums that may be then or at any time thereafter, become due to the contractor or from his security deposit.
- b. If the contractor feels that any variation in work or in quality of materials or proportions would be beneficial or necessary to fulfill the guarantee called for, he shall bring this to the notice of the Engineer-in-Charge in writing. The work will not be considered as



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complete and taken over by the Owner until all the temporary works etc., constructed by the contractor is removed and work site cleaned to the satisfaction of Engineer-in-Charge.

c. Care of Works:

From the commencement to completion of works, the contractor shall take full responsibility for the care of all works including all temporary works, and in case any damage, loss or injury happens to the works or to any part thereof or to any temporary work, from any cause whatsoever, he shall at own cost repair and make good the same, so that at completion, the work shall be in good order and in conformity in every respect with the requirements of the contract and the Engineer-in-Charge's instructions.

d. Effects prior to taking over: If at any time, before the work is taken over, the Engineer-in-Charge shall

- Decide that any work done or materials used by the contractor or any sub-contractor is defective or not in accordance with the contract or that the works or any portion thereof are defective or do not fulfill the requirements of contract (all such matters being herein after called 'Defects' in this clause) and
- As soon as reasonably practicable, notice given to the contractor in writing of the said decisions specifying particulars of the defects alleged to exist or to have occurred, then the contractor shall at his own expenses and with all speed make good the defects so specified. In the case contractor shall fail to do so, the Owner may take, at the cost of the contractor, such steps as may in all circumstances, be reasonable to make good such defects. The expenditure, so incurred by the Owner shall be recovered from the amount due to the contractor. The decision of the Engineer-in-Charge with regard to the amount be recovered from the contractor will be final and binding on the contractor. As soon as the works have been completed in accordance with the contract and have passed the tests on completion, the Engineer-in-Charge shall issue a certificate (hereinafter called completion certificate) in which he shall certify the date on which the work have been so completed and have passed the said tests and the Owner shall be deemed to have taken over the works on the date so certified. If the works have been divided into various groups in the contract, the Owner shall be entitled to take over any group or groups before the other or others and thereupon the Engineer-in-Charge shall



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issue a completion certificate which will however, be for such group or groups as taken over only.

- e. Defects after taking over: In order that the contractor could obtain a completion certificate, he shall make good with all possible speed, any defect arising from the defective materials supplied by the Contractor or workmanship or any act of omission of the contract that may have been noticed or developed after the works or group of the works has been taken over. The period allowed for carrying out such work will be normally one month. If any defect be not remedied within a reasonable time, the Owner may proceed to do the work at the contractor's risk and expense and deduct from the final bill such amount as may be decided by the Owner. If by reason of any default on the part of the contractor a completion certificate has not been issued in respect of every portion of the work within one month after the date fixed by the contract for the completion of the works, the Owner shall be at his liberty to use the works or any portion thereof in respect of which a completion certificate has been issued provided that the works or the portion thereof so used as aforesaid shall be afforded reasonable opportunity for completing these works for the issue of completion certificate.
- f. The Security Deposit/retention money deducted / furnished shall be retained for the period of liability as given in clause above. This Retention amount or Bank Guarantee furnished against Security Deposit/retention money shall be released only on expiry of the period of liability and also based on the certification of the Engineer-in-charge that no defect/damage has been reported / observed during the stipulated period of liability for the contract.
- g. Performance of contractor shall be evaluated on each job by Engineer-in-Charge and recorded. Review of performance will be carried out at appropriate intervals by DAFFPL.

CHAPTER 5: GENERAL TERMS & CONDITIONS

1. General:

The materials and workmanship shall satisfy the relevant Indian Standards, the job specifications contained herein & codes referred to. Where the job specifications stipulate requirements in addition to those contained in the standard codes and specifications, these additional requirements shall also be satisfied.

In the absence of any standard / specification / codes of practice for



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detailed specifications covering any part of the work covered in this tender document, the instruction / direction of consultant engineer will be binding on the contractor.

Wherever it is stated in this tender document that a particular supply is to be affected or that a particular work is to be carried out, it shall be understood that the same shall be affected / carried out by the contractor at his cost, unless a different intention is specifically and expressly stated herein or otherwise explicit from the context.

2. DAFFPL reserves the right to accept any tender in whole and reject any or all tenders without assigning any reason. DAFFPL also reserves the right to allow public enterprises (Central/State) Price / purchase /contract / service preference as admissible under the Indian Government Policy.

3. Construction Program:

A detailed gantt chart showing various activities shall be prepared by the tenderers. The work shall be executed strictly as per the agreed time schedule. The period of completion shall include, the time required for mobilization and testing as well as rectification, if any, testing & completion in all respects to the entire satisfaction of the owner/PMC.

A joint programme of execution programme shall be prepared by the contractor.

Monthly and weekly construction programme shall be made by the contractor. The contractor shall scrupulously adhere to these targets / programme by deploying adequate personal and construction tools and tackles. He shall also supply all materials in his scope of supply in time to achieve the targets set out in the weekly and the monthly programme.

The contractor shall give every day, a report on labour and equipment deployed along with the progress of the work done on previous day, for each category of work.

Contractor shall intimate the fuel farm operator, EIC & DAFFPL a month in advance about their plans to take shutdown of any facility/equipment/tank etc. inside the fuel farm.

In case of any delay in handover of any facility as per approved / mutually agreed plan to the contractor by the Fuel Farm Operator/DAFFPL, Or any other hinderance beyond the contractor's



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scope/control (as approved by EIC) the delay period shall be added to the delivery period of this contract. The hinderance register has to be maintained by the contractor duly approved/counter signed by EIC on the day/time of hinderance. The liquidated damages shall be calculated on the basis of scheduled completion & actual data from hinderance register.

The decision of EIC shall be binding on the contractor & non-negotiable.

4. Construction Water and Power:

- ✓ The contractor has to make necessary arrangement for metering and further distribution for power required for job at no extra cost. All arrangement/material shall be as per electrical rules/standards/Approved makes.
- ✓ Electricity will be provided by DAFFPL @ Rs. 18.00 per unit plus tax.
- ✓ Water will be provided at a point inside the terminal and the contractor then has to be make subsequent arrangements at no extra cost.
- ✓ Tariffs are subjected to change as per revisions.
- ✓ The DAFFPL shall not take any guarantee for the supply of water & electricity and will not relieve the contractor of his responsibility in making his own arrangement and for the timely completion of the various works as stipulated.

5. Safety Rules and Regulations:

All Safety rules and regulations of the terminal operator have to be followed by the contractor without fail. If any damage occurs due to negligence of safety, contractor will be held responsible for the same.

6. Tests and Inspection:

The contractor shall carry out the various tests as enumerated in the technical specifications of this tender document and the technical documents that will be furnished to him during the performance of the work. No separate payment shall be made.

The contractor shall carry out at his cost, all the tests either on the field or through external institutions / laboratories, concerning the execution of the work and supply of materials by the contractor.

Any work not conforming to the execution drawings, specifications or codes shall be rejected forthwith and the contractor shall carry out the



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rectification at this own cost. Results of all inspection & tests shall be recorded in the inspection reports, test reports, etc., which will be approved by the Engineer-in-charge. These reports shall form part of the completion documents.

Inspection & Acceptance of works shall not relieve the contractor from any of his responsibilities under this contract.

7. Site Cleaning:

The contractor shall take care to clean the working site from time to time for easy access to work site and for safety. Working site should be always kept cleared to the entire satisfaction of DAFFPL.

Before handing over any work to the owner, the contractor in addition to other formalities to be observed as detailed in the document shall clear the site to the entire satisfaction of DAFFPL.

8. Coordination with other Agencies:

Work shall be carried out in such a manner that the work of other agencies operating at the site is not hampered due to any action of the contractor. Proper coordination with other agencies will be the responsibility of the contractor. In case of any dispute, the decision of Engineer-in-charge shall be final and binding on the contractor.

9. DAFFPL reserves the right to accept any tender in whole and reject any or all tenders without assigning any reason. DAFFPL also reserves the right to allow public enterprises (Central/State) Price / purchase /contract / service preference as admissible under the Indian Government Policy.

10. BID PRICES:

- a) Prices shall be furnished strictly in the Price Bid format of the tender document.
- b) Bidder should quote their lowest and best offered price. Prices so quoted will remain firm till satisfactory completion of order. The price will not be subjected to escalation for any reason whatsoever.
- c) Bidders quoted prices shall be deemed to include entire Specification of item and all obligations and responsibilities to be carried out / executed by the Bidder as per terms of tender document. It is clearly understood by the Vendor that it is for the Vendor to ascertain and assess the applicable Acts/ Regulations/ Laws etc., entirely of their own. It is also for the Vendor to ascertain



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and assess the applicability of taxes, duties, levies etc. In case of any difference of opinion between Vendor's proposal and interpretation by any tax/assessing (or similar) authorities, on the rate or terms and conditions related to taxes and duties etc., owner's liability shall be strictly as per terms/provisions of the contract based on tender document and Vendors offer.

d) No other charges accept those mentioned in the tender document will be payable to vendor.

11. Materials are required to be dispatched by the vendor to the locations, on freight paid DOOR- DELIVERY CONSIGNEE COPY ATTACHED basis along with copies of Inspection release note & internal test certificates & other documents as mentioned elsewhere in this tender document.

12. Bidder shall quote considering the cost of all approvals, insurances and other applicable charges; nothing shall be paid/reimbursed additionally on any account.

13. Goods & Services Tax (GST): -The tenderer should have valid Goods & Service Tax registration. Tenderer should enclose the copy of the registration (GST) /copy of acknowledgement along with the tender. The Parties without valid Goods & Service Tax number need not quote. As per Section 171 of CGST/SGST Act, "Any reduction in rate of tax on any supply of goods or services or the benefit of input tax credit shall be passed on to the recipient by way of commensurate reduction in prices.

14. TAXES & DUTIES:

- a) Bidder(s) quoted prices shall be exclusive of all taxes, duties, cess, levies etc.,
- b) The invoice should clearly mention that applicable Excise Duty, Education Cess or any other taxes charged and paid / payable on quoted item to enable the owner to claim MODVAT / Input credit.
- c) The statutory variation in Excise duty, Education Cess and Sales tax / VAT/GST on finished goods and introduction of new tax, from bid due date till the contractual completion period shall be to owner account against submission of the documentary evidence. However, any increase in the rate of these taxes and duties beyond the contractual delivery period shall be to Seller account. Any decrease in the rate of these taxes and duties shall be passed on to the owner. Any additional excise duty due to increase in turn-over would be to seller account.



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- d) It is for the Bidder to assess and ascertain the rate of excise duty, education Cess and sales tax/VAT applicable on quoted items. It is clearly understood that Owner will not have any additional liability towards payment of Excise Duty, Education Cess, GST and Sales Tax/VAT which is based on Bidders wrong assessment / interpretation of applicability of such Excise Duty and/or education cess and / or Sales Tax/VAT.
- e) Successful bidder shall carry out its obligations towards services at site as mentioned in technical specifications without any extra charges.
- f) Octroi/Entry tax, if any, in the any state of India shall be directly paid by the vendor, if applicable.
- g) DAFFPL shall not be liable, in case the tax authorities assess the tax elements in a different way on account of any reason, whatsoever.
- h) Taxes and duties other than those specified in this document, if any, shall be included in the quoted prices and no separate reimbursement shall be made by DAFFPL.

15. Income Tax / Corporate Tax:

- a) As regards Income Tax, Surcharge on Income Tax or any other Corporate Tax payable by the Bidder for reason of the contract awarded, and / or on their expatriate personal, the Owner shall not bear any Tax liability whatsoever, irrespective of the mode of construction of contract / order. The Bidder shall be liable and responsible for payment of such tax, if attracted under the provision of Indian Income Tax Act.
- b) Bidder may note that if any tax is deductible at source as per Indian Income Tax Law, the same will be deducted before releasing any payment to the Bidder and a TDS (Tax deducted at source) certificate will be furnished to the Bidder.
- c) Bidder may note that where the responsibility to deduct TDS under section 194Q of Income Tax Act is on DAFFPL, bidder shall not collect any TCS under section 206C(1H) of the Income Tax Act from DAFFPL.**
- d) Accordingly, Bidder shall have the responsibility to check and include such provision of taxes in the prices.
- e) In case of delay in delivery due to reasons attributable to Bidder, any new or additional taxes or duties levied by Statutory authorities during this period shall be borne by the Bidder.

16. EMD / BID SECURITY

- a) The bidder shall furnish, as part of his bid, a bid security in original for



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the amount specified in the tender document by way of pay order, bank guarantee on Rs.100/-value non-judicial stamp paper or demand draft.

- b) The bid security is required to protect the Owner against the risk of Bidders conduct, which would warrant the security forfeiture.
- c) If bid Security / EMD is in the form of bank guarantee, it shall be in the form of irrevocable bank guarantee (in the format attached) issued by any Indian Scheduled Bank (other than Co-operative Bank) will be accepted.
- d) Bid Security / EMD shall be issued in favour of M/s Delhi Aviation Fuel Facility (P) Limited, New Delhi.
- e) Unsuccessful bidders bid security without any interest will be discharged/ returned as promptly as possible, but not later than 60 days after the expiry of the period of bid validity prescribed by the Owner.
- f) The successful bidder bid security without any interest will be discharged, upon the Bidder accepting the Contract/ Purchase Order and furnishing the security deposit/Contract performance bank guarantee to DAFFPL.
- g) The bid security may be forfeited:
 - i. If a bidder withdraws his bid during the period of bid validity or
 - ii. In the case of a successful bidder, if the bidder fails or refuses to:
 - Accept the Purchase Order in accordance with agreed terms and conditions.
 - Furnish Contract performance bank guarantee as per bid document/ Purchase Order.
 - iii. Detection of submission of false / forged documents and fraud.
- h) Central Public Sector Undertaking of Govt. Of India are exempted from furnishing the bid security. Firms registered with NSIC/ MSME are also exempted from furnishing bid security, provided they are registered for the tendered items and up to the monetary limit they intend to quote. Provided further that they submit a copy of the current and valid registration certificate for the quoted item and monetary value along with their bid(s). Owner reserves right to verify the registration certificate provided, with relevant authorities.

17. Security deposit (SD) amount shall be equivalent to 10% of the Total Contract Value (there shall not be any upper ceiling for security deposit)



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amount). Total Contract Value shall mean the totality of such remuneration exclusive of Goods and Service Tax. While initially the SD amount shall be 10% of the Work Order value (exclusive of GST), once the work is executed, the total Security Deposit will be on the value of the work actually executed and not on the value of the work order.

The Security Deposit shall be made up of Initial Security Deposit and retention monies of a sum equal to 10% (ten percent) of the gross value of each bill up to and until the recovery of full Security deposit is achieved.

The successful bidder is required to deposit Initial Security Deposit in an amount equal to 2.5% (Two and one half percent) of the total contract value in one or more of the following modes:

- a. By Demand draft/Pay Order drawn on a Banking Branch of a Nationalized / Scheduled Bank payable at the location as specified. (Cheques shall not be accepted).
- b. If the Earnest Money Deposit has been made in by Demand Draft or Bankers Cheque or NEFT or net banking, the contractor may be permitted to adjust the same towards part of the Initial Security Deposit and pay the balance in the manner stipulated at (a) above.
- c. By Bank Guarantee(s) in the prescribed form, from a Scheduled Bank in India acceptable to DAFFPL, provided the amount covered by such Bank Guarantee is not less than Rs.1,00,000 (Rupees One Lakh only). This Bank Guarantee shall be valid up to a period of 3 (three) months beyond the end of the Defect Liability period.

Alternatively, the vendor also can deposit the full SD amount by DD or Bankers cheque or Bank Guarantee (if the amount of SD is higher than Rs. 1 lac) initially itself in which case no ISD will be required to be furnished and no deductions shall be made from running bills.

The amount will be returned to the bidder without any interest at the end of the warranty / guarantee period subject to fulfillment of all contractual obligations by the Bidder. The guarantee shall have a claim period of 06 months beyond the contractual guarantee period.

18. PRICE REDUCTION FOR DELAY IN DELIVERY/WORK COMPLETION:

The inability of successful bidder to execute orders in accordance with the agreed completion schedule will entitle DAFFPL, at its options, to:



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- a) Accept delayed work completion at prices reduced by a sum equivalent to half percent (0.5%) of the total order value (i.e., sum of amount of purchase order for supply part and amount of work order for installation part) for every week of delay or part thereof which is to be considered as a week, limited to a maximum of 10% of the total order value (sum of supply part value and installation part value). Date of completion of all works at DAFFPL site shall be considered for calculation of price reduction.

19. Purchase order for supply part will be placed by DAFFPL and work order for installation part will be placed by fuel farm operator M/s IOSPL on behalf of DAFFPL. The billing by contractor shall be done on DAFFPL only on both the cases.

20.INSURANCE

Contacto shall carry and maintain any and all statutory insurance(s) required under Indian Laws and Regulations, including Workmen compensation Act/ESI/Third party liabilities etc. and insurances for their personnel engaged in performance of the work at their own cost.

TRANSIT & COMPREHENSIVE INSURANCE

The vendor shall arrange transit Insurance for door delivery of equipments to DAFFPL Fuel Farm, New Delhi for delivery.

21.INSPECTION:

- a) Material / construction/Fabrication shall be inspected by owner or its representative. Charges other than third party inspection, is entirely vendor responsibility and in no way should affect the completion schedule.
- b) OWNER may, at its own expense, witness any test or inspection. In order to enable OWNER to witness the tests/inspections OWNER will advise the bidder in advance whether it intends to be present at any of the inspections.
- c) Even if the inspection and tests are fully carried out, the Vendor shall not be absolved from its responsibilities to ensure that the Material(s), raw materials, components and other inputs are supplied strictly to conform and comply with all the requirements of the Contract at all stages, whether during manufacture and fabrication, or at the time of Delivery as on arrival at site and after its commissioning or start up and during the defect liability period. The inspections and tests are merely intended to prima-facie satisfy



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OWNER that the Material(s) and the parts and components comply with the requirements of the Contract. The Vendor's responsibility shall also not be anyway reduced or discharged because OWNER or OWNER's representative(s) or Inspector(s) shall have examined, commented on the Vendor's drawings or specifications or shall have witnessed the tests or required any chemical or physical or other tests or shall have stamped or approved or certified any Material(s).

- d) Although material approved by the Inspector(s), if on testing and inspection after receipt of the Material(s) at the location, any Material(s) are found not to be in strict conformity with the contractual requirements or specifications, OWNER shall have the right to reject the same and hold the Vendor liable for non-performance of the Contract.

22. GUARANTEE/WARRANTY:

- a) Materials/workmanship shall be guaranteed against manufacturing defects, materials, workmanship, and design for a period of 12 months from the date of completion of work at DAFFPL site. Warranty for replacement of material / accessories should be provided free of charges at our premises. The above guarantee/warranty will be without prejudice to the certificate of inspection or material receipt note issued by us in respect of the materials.
- b) All the materials including components and subcontracted items should be guaranteed by the vendor within the warranty period mentioned above. In the event of any defect in the material, the vendor will replace / repair the material at DAFFPL concerned location at vendor risk and cost on due notice.
- c) Alternatively, DAFFPL reserves the right to have the material repaired / replaced at the locations concerned, at the vendors risk, cost and responsibility, in case, vendor does not replace / repair the material.
- d) The Vendor shall provide similar warrantee on the parts, components, fittings, accessories etc. so repaired and / or replaced.
- e) Vendor shall guarantee that the performance of the EQUIPMENT/MAT supplied under the CONTRACT shall be strictly in conformity with the specifications and shall perform the duties specified under the CONTRACT.
- f) RISK PURCHASE CLAUSE: We reserve the right to curtail or cancel the order either in full or part thereof if bidder fails to comply with delivery schedule and other terms & conditions of the order. DAFFPL also reserves the right to procure same or similar



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materials/equipment through other sources at vendor's entire risk, cost and consequences.

23. **TEST & PERFORMANCE CERTIFICATES:** Bidder shall furnish Material test and Performance Certificates for the materials along with the challans and invoice.
24. Construction power, water, loading and boarding, Site Storage with watch and ward, receipt, unloading, shifting material to store and internal shifting to site shall be included in Vendor's scope.
25. The unit rates as quoted to arrive at a total price shall be firm and inclusive of all duties, levies, transportation etc. No separate payment shall be made for site mobilization / demobilization, insurance etc.
26. The Schedule of Rates should be read with all other sections of the tender documents.
27. The tenderer shall be deemed to have studied the drawings, specifications and the details of work to be done within the time schedule and to have acquainted with the conditions prevailing at site. Site visit is strongly recommended.
28. All supply and work shall be in line with tender specifications, drawings and instructions of the Engineer-in-Charge.
29. The quantities shown against the various items are only indicative of the quantum of work and it may vary to any extent. Billing/payment will be done as per payment terms. Vendor to make measurements at site before dispatch of any material.
30. The rate quoted shall be inclusive of all work as mentioned in the scope of work in tender documents.
31. In case of any rework due to faulty workmanship or any defects occur or modifications are required no extra claims for such works/supply shall be



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entertained.

32. PAYMENT TERMS: The payment will be made after making necessary deductions as applicable & stipulated elsewhere in the tender document for materials, security deposit or any moneys due to the Owner etc. Works have to be executed as per drawings & scope of work.

- PBG/SD/retention amount will be released after completion of guarantee/warranty/defect liability period.
- Payment will be released within 30 days from the receipt and acceptance of Invoice along with all required documents.
- Notwithstanding any other clause of the tender documents, payment for Goods and Service Tax amount claimed in the invoice for work done by the successful bidder will be released only after the invoice is reflected in GSTR-2A of DAFFPL/Owner

The following payment terms shall be applicable:

For Supply Part:

- 80% will be released within 30 days after receiving invoice after the receipt and acceptance of material at site adjusting deductible if any.
- Balance 20% of material consumed after completion of installation, testing & commissioning of all works in all respect and handover of same to operations.

For Installation Part:

- 80% will be released after completion of installation & testing of individual work and certification by site engineer/PMC on prorata basis.
- Balance 20% after completion of installation, testing & commissioning of all works in all respect and handover of same to operations.

Note: Payment will be done on actual consumption of material & works carried out. Amount for unused material will be adjusted in final billing.

Note: No Mobilization advance will be paid against the purchase/work order issued against the subject tender.



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Arrangement for Transit e-way Bill under the GST Act for all the purchases is the responsibility of the tenderer.

33. Only in the event of causes of Force Majeure occurring within the contractual delivery period and if they impede the performance of contract, the delivery dates shall be extended on receipt of application from the bidder / Owner without imposition of penalty. Only those causes which depend on natural calamities, civil wars, fire and national strikes which have duration of more than seven consecutive calendar days are considered the causes of force Majeure. The decision of Owner shall be final and binding on vendor.
34. The Vendor must advise the Owner by a registered letter duly certified by Local Chamber of Commerce or statutory authorities and Owner must advise the Vendor by a letter, the beginning and the end of the delay immediately, but in no case later than within 10 days of the beginning and end of such causes of Force Majeure condition as defined above. Provided further that if the performance in whole or part of any obligation under this contract is prevented or delayed by reason of any such event for period exceeding 60 days either party may at its option terminate the contract.
35. Repeat Order: DAFFPL reserves the right to place repeat order up to the order quantity within One Year from the date of original order on mutual agreement basis.
36. Any reference to the Govt. Acts /Regulations etc. in the Bid Document is only indicative, and it is entirely for the bidder to ascertain the applicable Acts/Regulations.
37. RECOVERY OF SUMS DUE: Whenever, any claim against bidder for payment of a sum of money arises out of or under the contract or in any other form, the owner shall be entitled to recover such sums from any sum then due or when at any time thereafter may become due from the vendor under this or any other form and should this sum be not sufficient to cover the recoverable amount of claim(s), the vendor shall pay to DAFFPL on demand the balance remaining due.
38. PATENTS & ROYALTIES: The vendor shall fully indemnify owner and users of materials specified herein/supplied at all times, against any action, claim or demand, costs and expenses, arising from or incurred by reasons of any



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infringement or alleged infringement of any patent, registered design, trademark or name, copy right or any other protected rights in respect of any materials supplied or any arrangement, system or method of using, fixing or working used by the vendor. In the event of any claim or demand being made or action sought against Owner in respect of any of the aforesaid matter, the vendor shall be notified thereof immediately and the vendor shall at his/its own expense with (if necessary) the assistance of Owner (whose all expense shall be reimbursed by the vendor) conduct all negotiations for the settlement of the same and/or litigation which may arise thereof.

39. **LIABILITY CLAUSE:** In case where it is necessary for employees or representatives of the Vendor to go upon the premises of owner, vendor agrees to assume the responsibility for the proper conduct of such employees/representatives while on said premises and to comply with all applicable Workmen Compensation Law and other applicable Government Regulations and Ordinances and all plant rules and regulations particularly in regard to safety precautions and fire hazards. If this order requires vendor to furnish labour at site, such vendors workmen or employees shall under NO circumstances be deemed to be in owner s employment and vendor shall hold himself responsible for any claim or claims which they or their heirs, dependent or personal representatives, may have or make, for damages or compensation for anything done or committed to be done, in the course of carrying out the work covered by the purchase order, whether arising at owner s premises or elsewhere and agrees to indemnify the owner against any such claims, if made against the owner and all costs of proceedings, suit or actions which owner may incur or sustain in respect of the same.
40. **COMPLIANCE OF REGULATIONS:** Vendor warrants that all goods/Materials covered by this order have been produced, sold, dispatched, delivered and furnished in strict compliance with all applicable laws, regulations, labour agreement, working condition and technical codes and statutory requirements as applicable from time to time. The vendor shall ensure compliance with the above and shall indemnify owner against any actions, damages, costs and expenses of any failure to comply as aforesaid.
41. **REJECTION, REMOVAL OF REJECTED GOODS AND REPLACEMENT:** In case the testing and inspection at any stage by inspectors reveal that the equipment, materials and workmanship do not comply with specification and requirements, the same shall be removed by the vendor at his/its own



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expense and risk, within the time allowed by the owner/purchaser. The Purchaser shall be at liberty to dispose off such rejected goods in such manner as he may think appropriate, in the event the vendor fails to remove the rejected goods within the period as aforesaid. All expenses incurred by the Purchaser for such disposal shall be to the account of the vendor. The freight paid by the purchaser, if any, on the inward journey of the rejected materials shall be reimbursed by the vendor to the purchaser before the rejected materials are removed by the vendor. The vendor will have to proceed with the replacement of the Equipments without claiming any extra payment if so required by the purchaser. The time taken for replacement in such event will not be added to the contractual delivery period.

42. NON-WAIVER : Failure of the Owner to insist upon any of the terms or conditions incorporated in the Purchase Order or failure or delay to exercise any rights or remedies herein, or by law or failure to properly notify Vendor in the event of breach, or the acceptance of or payment of any goods hereunder or approval of design shall not release the Vendor and shall not be deemed a waiver of any right of the Owner to insist upon the strict performance thereof or of any of its or their rights or remedies as to any such goods regardless of when such goods are shipped, received or accepted nor shall any purported oral modification or revision of the order by DAFFPL act as waiver of the terms hereof. Any waiver to be effective must be in writing. Any lone incident of waiver of the any condition of this agreement by DAFFPL shall not be considered as a continuous waiver or waiver for other condition by DAFFPL.

43. NEW & UNUSED MATERIAL: All the material supplied/used by the vendor shall be branded new, unused and of recent manufacture.

44. CANCELLATION:

- a) DAFFPL reserves the right to cancel the contract/purchase order or any part thereof through a written notice to the vendor if –
 - i. The vendor fails to comply with the terms of this purchase order/contract.
 - ii. The vendor becomes bankrupt or goes into liquidation.
 - iii. The vendor fails to deliver the goods on time and/or replace the rejected goods promptly.
 - iv. The vendor makes a general assignment for the benefit of creditors.
 - v. A receiver is appointed for any of the property owned by



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- the vendor.
- vi. Any other conditions where owners commercial interest get affected.
- b) Upon receipt of the said cancellation notice, the vendor shall discontinue all work on the purchase order matters connected with it. DAFFPL in that event will be entitled to procure the requirement in the open market and recover excess payment over the vendor s agreed price if any, from the vendor and also reserving to itself the right to forfeit the security deposit if any, made by the vendor against the contract. The vendor is aware that the said goods are required by DAFFPL for the ultimate purpose of materials production and that non-delivery may cause loss of production and consequently loss of profit to the DAFFPL. In this-event of DAFFPL exercising the option to claim damages for non delivery other than by way of difference between the market price and the contract price, the vendor shall pay to DAFFPL, fair compensation to be agreed upon between DAFFPL and the vendor. The provision of this clause shall not prejudice the right of DAFFPL from invoking the provisions of price reduction clause mentioned aforesaid.
45. ANTI –COMPETITIVE AGREEMENTS/ABUSE OF DOMINANT POSITION: The Competition Act, 2002 as amended by the Competition (Amendment) Act, 2007 (the Act), prohibits anti- competitive laws and aims at fostering competition and at protecting Indian markets against anti- competitive practices by enterprises. The Act prohibits anti- competitive agreements, abuse of dominant position by enterprises, and regulates combinations (consisting of acquisition, acquiring of control and M&A) wherever such agreements, abuse or combination causes, or is likely to cause, appreciable adverse effect on competition in markets in India. DAFFPL reserves the right to approach the Competition Commission established under the Act of Parliament and file information relating to anti-competitive agreements and abuse of dominant position. If such a situation arises, then Vendors are bound by the decision of the Competitive Commission and also subject to penalty and other provisions of the Competition Act.
46. ASSIGNMENT: The Vendor can / does not have any right to assign his rights and obligations under these general purchase conditions without the prior written approval of DAFFPL.
47. GOVERNING LAW: These General Purchase Conditions shall be governed by the Laws of India.



48. AMENDMENT: Any amendment to these General Purchase Conditions can be made only in writing and with the mutual consent of the parties to these conditions.
49. The following expressions used in these terms and conditions and in the purchase order shall have the meaning indicated against each of these:
- a) **OWNER**, Client, Purchaser, buyer means DAFFPL
 - b) **VENDOR**, tenderer, Bidder, Contractor, Seller, Supplier, manufacturer stated anywhere in the tender document carry the same meaning: It means the person, firm or the Company / Corporation to bidding and shall include its successors and assigns.
 - c) **INSPECTOR/ TPIA**: Person/agency deputed by Owner for carrying out inspection, checking/testing of items ordered and for certifying the items conforming to the purchase order specifications.
 - d) **GOODS / MATERIALS**: means any of the articles, materials, machinery, equipment's, supplies, drawing, data and other property and all services including but not limited to design, delivery, installation, inspection, testing and commissioning specified or required to complete the order.
 - e) **SITE / LOCATION**: means any Site where DAFFPL desires to receive materials anywhere in India as mentioned in tender.
 - f) **CONTRACT**, Order or Purchase Order/CALL-OFF means the agreement for supply of goods/ materials for required quantity between Owner and Vendor, for a fixed time on mutually agreed terms and conditions.
 - g) The term MR means Material Requisition containing technical requirements and scope of work (technical), GPC means General Purchase Conditions containing commercial terms & conditions, PO means Purchase order issued after award of contract incorporating agreed deviations in MR, ATC means Agreed Terms & Conditions, RFQ means Request For Quotation.
 - h) For the purpose of contract, the trade terms FOB, CFR and CIF, DAP shall have the meanings as assigned to them by INCOTERMS 2010 published by ICC, Paris.

50. REFERENCE FOR DOCUMENTATION:

The number and date of Collective Request for Quotation (CRFQ) must appear on all correspondence before finalization of Contract / Purchase Order.

After finalization of Contract / Purchase Order: The number and date of



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Contract /Purchase Order must appear on all correspondence, drawings, invoices, dispatch advice, (including shipping documents if applicable) packing list and on any documents or papers connected with this order.

51. ARBITRATION

- a) Any 'dispute or difference of any nature whatsoever, any claim, cross-claim, counterclaim or set off of the Owner against the Consultant or regarding any right, liability, act, omission or account of any of the parties hereto arising out of or in relation to this agreement shall be referred to the Sole Arbitration of the nominated Director of the Owner or of some Officer of the Owner who may be nominated by the nominated Director. The consultant will not be entitled to raise any objection to any such arbitrator on the ground that the arbitrator is an officer of the Owner or that he has dealt with the matters to which the contract relates or that in the course of his duties as an Officer of the Owner, he had expressed view on all or any other matters in dispute or difference. In the event of the arbitrator to whom the matter is originally referred being transferred or vacating his office or being unable to act for any reason, the nominated Director as aforesaid at the time of such transfer, vacation of office or inability to act may in the discretion of the nominated Director designate another person to act as arbitrator in accordance with the terms of the agreement to the end and intent that the original Arbitrator shall be entitled to continue the arbitration proceedings notwithstanding his transfer or vacation of office as an officer of the Owner if the nominated Director does not designate another person to act as arbitrator on such transfer, vacation of office or inability of original arbitrator. Such person shall be entitled to proceed with the reference from the point at which it was left by his predecessor. It is also a term of this contract that no person other than the nominated Director of the Owner or a person nominated by such nominated Director as aforesaid shall act as arbitrator hereunder. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to the agreement subject to the provisions of the Arbitration & Conciliation Act, 1996 or any statutory modification or reenactment thereof and the rules made there under for the time being in force shall apply to the arbitration proceedings under this clause.
- b) The arbitrator shall have power to order and direct either of the parties to abide by, observe and perform all such directions as the



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arbitrator may think fit having regard to the matters in difference i.e. dispute, before him. The arbitrator shall have all summary powers and may take such evidence oral and/or documentary, as the arbitrator in his absolute discretion thinks fit and shall be entitled to exercise all powers under the Indian Arbitration & Conciliation Act 1996 including admission of any affidavit as evidence concerning the matter in difference i.e. dispute before him.

- c) The parties against whom the arbitration proceedings have been initiated, that is to say, the Respondents in the proceeding, shall be entitled to prefer a cross claim, counter claim or set off before the Arbitrator in respect of any matter in issue arising out of or in relation to the Agreement without seeking a formal reference of arbitration to the nominated Director/officer for such counter-claim, or set off and the Arbitrator shall be entitled to consider and deal with the same as if the matters arising therefore has been referred to him originally and deemed to form part of the reference made by the nominated Director/officer.
- d) The arbitrator shall be at liberty to appoint, if necessary any accountant or engineering or other technical person to assist him, and to act by the opinion so taken.
- e) The arbitrator shall have power to make one or more awards whether interim or otherwise in respect of the dispute and difference and in particular will be entitled to make separate awards in respect of claims of cross claims of the parties.
- f) The arbitrator shall be entitled to direct any one of parties to pay the costs to the other party in such manner and to such extent as the arbitrator may in his discretion determine and shall also be entitled to require one or both the parties to deposit funds in such proportion to meet the arbitrators expenses whenever called upon to do so.
- g) The parties hereby agree that the courts in the city of Delhi alone shall have jurisdiction to entertain any application or other proceedings in respect of anything arising under this agreement and any award or awards made by the Sole Arbitration hereunder shall be filed (if so required) in the concerned courts in the city of Delhi only.



Annexure-A

1. Scope of Work

This document specifies the minimum acceptable requirements set by the Purchaser for design, engineering, procurement, fabrication, assembly, inspection, testing, commissioning and delivery for converting the existing 33KV electrical power system to 11KV Power system with allied mechanical & civil works complete for Fuel Farm of DAFFPL, IGI Airport, New Delhi.

Scope of work includes the supply of all materials, consumables and carrying out all activities (electrical, mechanical & civil) for replacing existing 33KV ICOG HV panel with new 11KV ICOG panel, replacing existing 33/0.433KV transformer by 11/0.433KV transformer which is available with DAFFPL. Dismantling of existing panel & transformer, transit to store / location as directed by owner shall be kept in safe area & covering with weather proof tarpal is in the scope of bidder. Laying, connection/termination of all power, control, signal, communication new & existing cables and connection of signal/control cables to PLC/SCADA, dismantling/removal & reconnection of existing bus bars/bus duct, power, control & signals cables of & between panels & transformer, connection to existing earthing system is also in scope of bidder.

Contractor shall be responsible for the compliance of OISD norms, safety norms and other Indian norms during execution of the job.

Contractor shall arrange temporary power requirement for the job work, Cranes, transportation of material or any other requirement shall be fulfilled by contractor.

All civil works including any civil dismantling, wall breaking, concrete chipping, reconstruction/construction of required civil & mechanical structure, painting, grouting etc. complete in HT Panel Room & Transformer Room for replacement of panel & transformer; all civil works including excavation in all types of soil & concrete up to 0.9 m depth and of desired width, back filling, supply & laying of sand & bricks below and above of cable in which will be laid under the ground, road crossing, pipe/hume pipe laying, PCC work, RCC work, clamping by metallic clamps etc.) for laying all types of cables is responsibility & scope of bidder/contractor.

Scope also includes:

- Supply and installation of earthing of equipment including supply and installation of earthing material such as earth strip, all accessories for pits etc., hook-up to the existing fuel farm earth grid as per layout drawings and OISD norms.
- Supply and Installation of cable markers and identification tags, GI saddles, saddle bars and associated accessories.
- Supply of Consumable items like welding rods, electrode, Teflon tape, glands, lugs, ferrule with proper identification of tags.
- Supply and installation of cable glands (flameproof, double compression type), hardware items, etc.
- 11 kV HT Cable, laying, termination and connection to 11 kV HT panels & Transformer Primary shall also be in the scope of bidder along with the required length of Cable.
- LT Bus duct connection and termination to Transformer secondary & Existing Bus duct shall also be in the scope of bidder.



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- Supply and installation of Fire sealing compound is to be used at cable cellar / gland plate area so that fire in cellar is not extended to panel room area and vice versa.
- Submission of as built drawings & SLD (complete electrical system of fuel farm) in both pdf & CAD format is in contractor scope.

The scope of work also includes supply of any other material to complete the work in all respects. The completion work includes all the items (free issue and Contractor supply) and related work including testing and assistance in pre-commissioning, commissioning and trial runs. It is Contractor's responsibility to execute the job in all respect as per the detailed drawings / specifications supplied by the Consultant / Owner.

- Documents to be submitted immediately after the date of award of contract
 - Quality assurance plan, time schedule (weekly & monthly) with start and completion date for each activity of electrical installation work, Procurement plan, Gantt Chart.
 - Samples / technical details of equipment / materials to be supplied by the Contractor.
 - Detailed Site organization chart showing the information of the personnel to be proposed to deploy at site along with their detailed bio-data.
 - Photo copy of valid electrical Contractor's license for the area / State of the Project.

2. Environmental Conditions

2.1 Location

The site is located at Shahbad Mohammadpur adjoining to Indira Gandhi International Airport, New Delhi. The site is approachable by road.

2.2 Topography

The whole Site is levelled surface, with a nominal gradual slope.

2.3 Environmental Design Parameters

Elevation above M. S. L. : 237 metres. Above Sea level

Metrological data (Based on climatologically data of Delhi)

- | | | |
|--------|----------------------|----------------------------------|
| a) | Ambient temperature | |
| (max.) | : (+) 48.4°C | |
| (min.) | : (-) 2.2°C | |
| b) | Relative humidity, % | : Max: 100%; Min 25% |
| c) | Rainfall intensity | : 20-30mm in one hr intensity in |
| Delhi | | |
| d) | Design Wind speed | : 47 m/s |
| e) | Area Classification | : |



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Non Hazardous – Admin. & Pump House Pump House	:	Hazardous –Tank Farm & Product
f)	Earthquake Zone :	Zone IV (as per IS:1893)
g) Airport – Delhi)	Site Access :	By Road, By Rail, By Air (Nearest)
h)	Unit Installed :	Indoor

2.4 Design Temperature

The Maximum Design is considered as 50° C. This is an appropriate margin above the Maximum Operating Temperature of 48.4° C.

3. Technical Specifications

3.1 Applicable industry standards

The design, manufacture and performance of the equipment shall comply with all Indian Standards, I.E. Rules, Statutory Regulations and Safety Codes currently applicable in the locality where the equipment will be installed.

Unless otherwise specified, the equipment shall conform to the latest applicable Indian Standards and, in particular, the following:

Table 2.1 Codes and standards

Codes and standards		
2.1.1	IS : 3427	A. C. Metal enclosed switchgear and control gear for rated voltages above 1kV & up to & including 52kV
2.1.2	IS : 5578	Guide for marking of insulated conductors
2.1.3	IS : 11353	Guide for Uniform system of marking and identification of Conductors and apparatus terminals
2.1.4	IS : 13118 - 1991	Vacuum Circuit Breaker
2.1.5	IS : 2705 (Part-1) (1992)	Current transformers : General Requirements
2.1.6	IS : 3156 (Part-1) (1992)	Voltage transformers : General Requirements
2.1.7	IS : 3231 (1965)	Specification for Electrical relays for power system protection
2.1.8	IS : 4710	Switches and switch isolators above 1000V but not exceeding 11000V
2.1.9	IS : 1818	Alternating current isolators (Disconnections) and earthing Switches
2.1.10	IS : 9385	High Voltage fuses
2.1.11	IS : 1248 (Part-1) (1993)	Direct acting indicating analogue electrical measuring instruments and their accessories: General requirements.
2.1.12	IS : 694 IS:1554	PVC insulated cables for working voltages up to and including 1100V-FRLS
2.1.13	IS : 2208	HRC Cartridge Fuse links up to 650V



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2.1.14	IS : 6875	Control switches & Push buttons
2.1.15	IS : 722	Integrating meters
2.1.16	IS : 2544	Porcelain post insulators for systems with nominal voltage greater than 1000V
2.1.17	IS : 5	Colours for ready mixed paints and enamel
2.1.18	IS : 2147 (1962)	Degrees of protection provided by enclosures for low voltage switchgears & control gear.
2.1.19	IS : 12729 (1988)	General requirements for switchgear & control gear for voltages exceeding 1000 V.

3.2 Constructional requirement

- Switchgear shall comprise of indoor, metal enclosed, fully draw out, Vacuum circuit breaker panels as specified in data sheet.
- Switchgear shall be dust, moisture and vermin proof.
- Switchgear shall be suitable for 3 phase, solidly earthed A.C. system. Supply Voltage, rated current and system fault level shall be as per enclosed data sheet.
- All doors, panels, removable covers inter panel couplings shall be gasket all around with neoprene gaskets. All louvers shall have screens and filters.
- Metal enclosed unit shall comprise of rigid welded structural frame enclosed by 2.5mm thick cold rolled metal sheets. Structural framework with foundation/ fixing bolts etc. shall be provided at the bottom to mount switchgear directly on concrete / steel channel base.
- Switchgear shall be fully compartmentalised. Separate segregated compartments of metal partitions shall be provided for breakers, isolators, switch fuses instruments/ relays, buses / CT / PT and cable boxes.
- Cable entry shall be from bottom. Switchgear cubicles shall be provided with 3mm thick, un-drilled, removable cable gland plate, cable glands, cable boxes/pot heads and cable lugs. All material such as compound, tapes, binding wires, clamp etc. are included in the scope of supply.
- Switchgear construction and components shall be such that future extension shall be possible on either side.
- Separate labels shall be provided for switchgear, cubicles, relays, instrument, switch etc. One danger board in the front and back shall also be provided. All components mounted inside the panel shall be with identification nameplate.
- Painting (Confirming to IS: 5, 1994) shall include emulsion cleaning, pickling with dilute acid, washing and rinsing by water, phosphate and oven drying. One (1) coat of epoxy based zinc chromate primer and two (2) coats of epoxy paint of approved shade shall be applied.
- Separate explosion vents shall be provided on top covers for each circuit breaker, isolator, switch fuse, bus bar and cable chamber.
- Suitable fire barriers shall be provided between bus- sections of adjacent panels.



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- Name plates shall be of anodised aluminium or approved design. Letter shall be in white colour, rear engraved on black background.
- Inter compartment wiring shall be routed through the PVC/Metallic flexible conduits.
- Switchgear shall be designed for the actual available short circuit MVA's – (Refer Data sheet.)
- All high voltage parts shall be maintenance free.

Without opening the door of Breaker compartment, draw out unit shall be moved.

4. Safety Interlocks and Features

1. It shall be possible to withdraw or engage breaker only in open position.
2. Compartment door / front part of the truck of breaker, isolator, and switch fuse shall not open unless associated breaker or switch is in open position and vice versa.
3. Safety shutters automatically operated by movement of breaker/ switch carriage to cover live parts when carriage is withdrawn or draw in / out shall be provided.
4. It shall not be possible to switch on the breaker when the breaker truck is in any position between test and service position.
5. It shall not be possible to disconnect the low voltage plug and socket connector for control, instrumentation & interlock circuit in any position except test/ isolated position.
6. It shall be possible to move the breaker truck inside the panel only when the LT plug and socket is connected.
7. Safety shutter shall be of metallic/FRP (Flame Retardant) sheets.
8. Switchgears shall be equipped with pressure reducing covers (on top) in each Compartment and shall be equipped with screens.
9. Effective interlocks shall prevent malfunction even when a failure of the power supply occurs.
10. Earth switch should be able to close only when breaker is isolated position.
11. Mechanical castle key interlock shall also be provided.
12. It shall not be possible to switch ON the breaker when the rear door of HT panel is not closed properly or in open position
13. It shall be possible to withdraw or engage breaker (rack IN/OUT) in case of failure of AC/DC supply.

5. Main Bus Bars & Supports

1. Main bus bars shall be of uniform cross section of copper or copper alloy conforming to BS 159:1992
2. All bus bar joints or bus tap joints shall be silver faced. Wherever aluminium to copper connections is required suitable bimetallic connectors/ clamps shall be used.
3. Maximum temperature of bus bars and bus connections shall not exceed 85° C.
4. Bus bars shall be air insulated, supported on cast resin insulators of switchgear rated voltage class and phase segregated by means of non-hygroscopic insulating phase barriers.
5. Bus bar shall be heat shrinkable type PVC sleeved of Switchgear voltage grade and shall be colour coded.
6. Short circuit withstand capacity shall be provided as specified in data sheet.
7. They shall also take care of any thermal expansion.
8. Two bolt connections with plain spring washers and locknuts shall be provided for ensuring good contacts at the joints & taps.



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9. Insulator shall have total and protected creep age distance as per voltage class.
10. Insulators shall be spaced at suitable interval to withstand the short circuit forces in the event of fault.
11. Separate insulators for supporting the bus-bars shall be provided for each phase.

6. Circuit Breaker

1. Circuit breaker poles shall be operated by a common shaft. Operation counter shall be provided.
2. Circuit breaker with its operating mechanism shall be mounted on a shielded carriage moving on guides designed to align correctly and allow easy movements. Isolating plugs and sockets for power and control circuit shall be robust, fully self-aligning and shall be silver faced. Insulating shrouds of PVC or other insulating materials shall be provided.
3. There shall be 'Service', 'Test' and 'Fully withdrawn' positions for breaker.
4. Vacuum circuit breaker shall consist of air insulated poles incorporating the vacuum interrupters and mechanism housing. The operating mechanism shall be connected to the moving contacts through insulated couplers. The entire construction shall be sturdy and designed to withstand the mechanical and electrical stresses, which may be encountered both during normal operation and short circuit conditions. Suitable arrangement shall be provided to check the contact wear & tear.
5. Operating mechanism shall be non-pumping electrically and mechanically.
6. When breaker is already closed, failure of any auxiliary spring shall not prevent tripping and shall not cause damage to the breaker or endanger the operator.
7. A mechanical OPEN/CLOSE position indicator visible with closed door shall be provided.
8. Mechanical trip and close devices shall be provided. Access to mechanical closing device shall be only after opening the cubicle door / operating the lever.

Circuit Breaker shall be provided with Motor wound spring charging mechanism, Complete with motor. Spring charging motor shall preferably be a universal motor. Motor shall be used solely for storing energy in the spring - and not for direct closing of the Breaker. Limit Switch shall be provided to cut-off the motor power, when the spring is charged fully, with a contact for spring charged indication lamp on the panel. Also, mechanical indication for spring charged/Discharged shall be provided.

Breaker shall have facility to charge the spring by the manual spring charging handle. It should be ensured that whilst manual spring charging is in operation, Electrical power to the spring charging motor shall be cut off, automatically.

9. The following accessories shall be provided for individual panel:
 - a. Aux. Switch with 11NO+11NC contacts
 - b. Closing Solenoid
 - c. Tripping Solenoid
 - d. Mechanical Operation Counter
 - e. Spring Charging Handle
 - f. Shunt Release



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g. Spring Charged / Discharged Indication

h. Electrical Local Closing

10. All measuring Control protection units, signal lamps and so on shall be mounted in front of the panels.
11. Mechanical Indication of breaker position while door is closed (like service, test, isolated)
12. Circuit Breaker shall be conforming to IS: 13118 (1991) standard.

7. Earthing

1. An earthing bus extending throughout the length of the switchgear shall be provided.
2. Two separate earthing terminals shall be provided in each panel and shall be connected to the earth bus within the panel. The earthing conductor on the primary equipment as well as for external connection to substation earthing grid shall be adequate to carry the rated switchgear short-circuit current of 26.3 kA for 1 second.
3. All non-current carrying metal parts shall be effectively bonded to the earth bus.
4. In the case of draw out type breaker / switch fuse units withdraw truck shall be connected to the earth when the breaker is in isolated position and shall remain connected to the panel earth till the truck has moved past the isolated position during withdrawal.
5. All the Breaker trolley shall have earthing arrangement, such that whilst trolley is racked inside the panel, it should first get earthed, thereafter the line parts of the Breaker poles comes in contact & vice-versa while removing the trolley from the panel.

8. Cubicle Accessories and Wiring

8.1 Wiring

Cubicle internal wiring and inter panel wiring shall be carried out with minimum 1.5 mm² copper conductor PVC flexible wire for control circuits and with minimum 2.5 mm² copper conductor wires for CT circuits. Wiring of AC and DC shall be colour coded and terminated on separate terminal blocks. Ferrules shall be provided on each wire.

8.2 The following accessories shall be provided:

1. MCB of suitable rating for auxiliary A.C & D.C supply.
2. Separate 650 V grade terminal blocks of polycarbonate type including 20% spare terminals for AC and DC auxiliary supply for control and instrument wiring.
3. Cubicle space heater along with switch fuse & thermostat control.
4. A Plug & Socket controlled by switch.
5. One set of tools required for operation and maintenance shall be supplied along with switchgear.
6. Cubicle illuminating lamp CFL/FTL with control switch and door limit switch in the instrument chamber.
7. All spare contact of Relays/Breaker, Aux. contacts etc. shall be wired up to the Terminal Block, such that same can be used as and when required.
8. One set of tools, required for operation & maintenance shall be supplied for switchgear



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9. Instrument Transformers

1. CT and PT shall conform to the requirements of IS: 2705 and IS: 3156 respectively. The ratings specified are indicative only and it shall be vendor's responsibility to ensure that the ratings are adequate for relays/ meter application considering lead resistance etc.
2. CTs / PTs shall be of cast resin type.
3. CT terminal shorting links shall be provided at terminal blocks.
4. PT shall be provided with adequately rated primary and secondary fuses.
5. PT shall be of draw out type, unless specified. Line PT shall have separate enclosure mounted on rear or front side of the Panel whichever is suitable for compactness of panel or easy maintenance or both.
6. Primary neutral of the PT shall be effectively bonded to earth.

10. Instruments

1. Load Manager / Indicating instruments shall be provided for measurements of voltage, amperes, kW, frequency, kWh, maximum demand and power factor as specified in enclosed drawing.
Multiclust LED type lamp of 22.5 mm. Diameter shall be provided for indication of various parameter of circuit breaker viz. Circuit Breaker "ON", "OFF", Trip, spring charged, R-Y-B Potential indication, Trip coil healthy, etc.
2. Test Terminal Blocks for metering circuit of current Transformer & PT shall be provided.
3. Approved means shall be provided for zero adjustment from front without dismantling the instruments.
4. Fuses and links shall be provided for isolation of individual circuit from bus-wires disturbing the other circuit equipment.
5. Terminal blocks shall be of shorting and disconnecting type.
6. The terminal blocks shall be suitable for receiving 2 Nos. 2.5 mm² stranded copper conductor cable.
7. Each wire shall be identified at both ends with wire designation number by ferrules. A wire termination shall be made with the compression type connectors.

11. Relays

1. Relays shall conform to the requirements of IS: 3231 (1965) and shall be suitable for flush mounting with connection from rear. Protective relays shall be in draw out case.
2. Protective relays and timers shall be provided with hand reset contacts and shall be provided with flag to indicate the operation of relays.
3. Bill of materials shall be referred for protection relays.

12. Communication Feature

1. As a minimum one independent RS 232, one RS 485 communication ports and one Ethernet communication port that allow for simultaneous operation shall be provided to be used as follows:
 - a) For relay setting, modification, extraction and analysis of faults / events / disturbance records from laptop through RS 232 at the front.
 - b) To interface with remote communication equipment for SCADA.
2. The remote communication protocol of the numerical relays shall be IEC 61850.
3. The relays should generate GOOSE messages as per IEC 61850 standard for interlocking and also ensure interoperability with other relays.



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4. Necessary user friendly configuration tool shall be provided to configure the relays, it should be SCL/SCD files generated by other system.
5. Goose signal should be freely configurable for any kind of signal using graphic tools / user friendly software without use of any external software.
6. Suitable arrangement to be provided to monitor the following conditions of 11kV VCB at SCADA Control Centre end :
 - DC healthy
 - Breaker is 'OFF'
 - Breaker is 'ON'
 - Spring for closing mechanism is charged
 - Breaker is in Local
 - Breaker is in Remote
 - Trip Circuit healthy
 - Breaker is not anti-pumping
 - Tripping due to O/C
 - Tripping due to E/F

13. Miscellaneous Accessories

1. Breaker control switch shall be spring return to neutral type with pistol grip handle, provided with lost motion and sequencing device and lockable in neutral position.
2. Indicating lamps shall be of neon filament type with suitable series resistor and translucent lamp covers and lamps shall be replaceable from front.
3. Push buttons shall be of momentary contact type rated for 10A at 500V AC. The colour of push buttons shall be as follows:

Start - Green

Stop - Red

All other - Black

4. Alarm Annunciators
5. Alarm annunciators shall be provided, if specified in data sheet.
6. Alarm annunciator shall comprise of flush mounted facia units with two lamps and series resistor and ground glass plate in front of inscriptions.
7. Alarm annunciation scheme shall include facia units with relay for each fault, a common alarm bell, 'Accept' / 'Reset' / 'Test' push buttons.
8. The alarm annunciation scheme shall operate as follows:

Condition	Visual	Audible
Normal	Off	Off
On occurrence of fault	Flashing	On
Accept fault	Steady	Off
Reset-fault Cleared	Off	Off
Reset fault not Cleared	Steady	Off
Lamp test	Steady	Off
Annunciation test	Steady	On



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14. Tests

1. Vendor shall test each cubicle as per relevant standards with all components assembled and fully wired.
2. Routine tests shall be carried out on all components as per relevant standards.
3. Seven (7) copies of test certificate shall be submitted for Owner's approval before despatch of switchgear.
4. Vendor shall also submit 7 - sets of Test certificates of all bought out items supplied along with the panel, viz. Relay, CT, VT, Meters etc.
5. Owner reserves the right to witness the following routine test on switchgear/components mounted in switchgear:-
 - a. Operational Test (Electrical & Mechanical) of Circuit Breaker.
 - b. Primary/Secondary current injection test to check the operation of Meters and relays. Simulating actual operational conditions to check the operation of circuit breaker, indicating lamp, interlocks etc.
 - c. Pick-up & Drop-off voltage test for shunt trip and closing coil.
 - d. Current Transformers Polarity Test
 - e. Voltage Ratio Test for Voltage Transformers.
 - f. Insulation Resistance Test of Power & Control Circuit, before and after High voltage Test.
 - g. High Voltage Test on Power and Control Circuit.
 - h. Earth continuity Test, with low voltage tester.
 - i. Physical dimensional check as per the approved drawing and visual inspection of the switch gear.
 - j. Circuit Breaker contact opening & closing time at rated voltage, at 70 to 110% of rated voltage and also synchronous operation test.
6. Millivolt drop test of circuit breaker.

15. Spares

Vendor shall provide list for recommended spare parts for 1 year maintenance of equipment supplied.

16. Inspection

Purchaser or his authorized representatives will carry out inspection including witnessing tests.

1. Vendor shall notify Purchaser or his authorized representatives in writing at least fifteen (15) days prior to scheduled date of inspection.
2. All apparatus, instruments etc. required for test shall be provided by the Sub-Contractor's and shall have been checked and tested for accuracy during the twelve months, prior to the test, bearing tag No. of competent authority.

17. Guarantee

Vendor shall Guarantee Design, Materials / Workmanship and Performance of equipment supplied for a period of twelve (12) months from the date of handing over the installation to the owner after completion of all works, duly certified by the site in-charge / owners representative for satisfactory operation of the equipment.



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18. Drawings and Instruction Manuals

1. Vendor shall submit the following drawings for approval after award of contract.
2. Complete assembly drawing of Switchgear showing plan, elevation, typical section with dimensions and location of terminal blocks for external connections.
3. Schematic diagrams with terminal and ferrule numbers for each module.
4. Wiring diagram for each module indicating terminal blocks and various apparatus.
5. Final list of apparatus for each type, fuse and thermal overload relays.
6. Characteristic curves for circuit breaker releases, relays of each type, fuse and thermal overload relays.
7. Manufacturer's descriptive literature on various components used in switchboard.
8. Manufacture of VCB Panel shall be taken up only after the approval of the drawings.
9. Vendor shall submit seven (3) copies of "Installation & Instruction" manual.
10. Seven (3) copies of type test and routine test certificates shall be submitted for customer's approval before dispatch of switchgear.
11. Vendor shall also submit one (1) set of CDs each to client containing all drawings in CAD REL 14/2004 and data in MS office / WIN 98/ 2000.
12. Vendor shall furnish G.A. Drawing data sheet and catalogues.
13. Vendor to submit all as built drawings.

19. Make of Switchgear Components

SL. NO.	DESCRIPTION	MAKE
a	VCB Breaker	ABB/Siemens/L&T/CGL
b	Selector Switches	Kaycee / L&T/ Salzer
c	Breaker Control Switch	Siemens/Alstom.
d	Annunciation Panel	Minilec (Microwarn 9000) / ISC or eq.
e	Indicating Lamps	Osram/Philips/Crompton Greaves
f	Terminals Blocks	Elmex / Connectwell
g	Meters	Siemens (PAC 3200, 4200) / Conzerve / AE
h	Push Buttons	Teknic/Siemens/L&T
i	Protection Relays	ABB/Siemens
	Numerical types shall also be considered	
j	Space Heaters	Reputed make
k	Control Wires	Universal/KEI/CCI/RPG/Polycab.
l	Plug Receptacle	Siemens/Anchor
m	Load Manager-LM	Conzerve/Siemens.
n	Fitting and fixtures	Philips/Wipro
o	Miscellaneous Items	As Per The Specification

20. Technical Datasheet

SR. NO.	DESCRIPTION	SPECIFIED	VENDORS DATA
1	GENERAL		
a	Switchgear Designation	M.V. Switchgear Panel	
b	Reference drawings.	322538-EIC-0002-01	
c	Installation	Floor Mounted, Indoor Type	



DELHI AVIATION FUEL FACILITY PRIVATE LIMITED

SR. NO.	DESCRIPTION	SPECIFIED	VENDORS DATA
d	Type	Dust & Vermin Proof	
e	Colour finish Exterior / Interior	Shade # RAL – 7032	
f	Any Special Final Paint Required	Required, Powder Coated	
g	Site Conditions		
i	Ambient temperature	Max.+48.4°C/Min.-2.2°C	
ii	Relative humidity	100%	
iii	Altitude	Less than 1000 mtr above MSL	
iv	Atmosphere	Safe	
h	Cable entry	Bottom	
i	Earth bus material and size	CU- 75 X 10	
2	CUBICLE		
a	Rated Voltage & Frequency	33 kV, 3 Ph, 50 Hz	
b	Power Frequency Withstand	70 kV	
c	1:2 / 50 Microsecond Impulse Voltage Withstand (Peak)	170 kV	
d	Short Circuit Withstand		
i	Short Time	26.3 kA for 1 sec.	
ii	Momentary (Peak)	-	
e	Busbar Rating	1250 Amps	
f	System Neutral Earthing	Plate earthing	
g	Control Supply Voltage		
i	Operating Mechanism	24VDC or Universal Motor Operated Spring Charged	
ii	Closing Coil	24V DC	
iii	Tripping coil	24V DC	
iv	Indication & Annunciation Circuits	24V DC	
h	Maximum Size Of Transformer To Be Switched	1600/2000KVA	
i	Maximum Size Of Motor To Be Switched	To be specified later	
j	Thickness of Sheet Steel	2.5mm	
k	Base Frame Channels With Bolt	Required	
l	Overall Dimensions Of Each Cubicle (W x D x H) (mm)	Vendor To Furnish	
m	Minimum Clear Draw out Space Required	Vendor To Furnish	
n	Cubicle Weight With Breaker (Kg)	Vendor To Furnish	
o	Dynamic Loading	Vendor To Furnish	
3	ISOLATOR / SWITCHFUSE	Applicable	
a	Type	Vendor To Furnish	
b	Quantity	Vendor To Furnish -	
c	Current Rating Of Isolator Under Site Conditions	Vendor To Furnish -	
d	Fuse Rating	Vendor To Furnish -	
e	Symmetrical Interrupting Current	Vendor To Furnish -	
f	Magnetising Current Of Transformer For Making & Breaking Capacity Of Isolator	Vendor To Furnish -	
4	BUSBARS		
a	Material (Main & Earth bus)	Copper	
b	Main bus size	Copper (Vendor to furnish)	



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SR. NO.	DESCRIPTION	SPECIFIED	VENDORS DATA
c	Earth bus size	CU - 75 x 10	
d	Bare/painted/taped/insulating sleeve	Insulating Sleeve	
e	Continuous Current Rating at site conditions	1250 A	
f	Short Circuit Level.	1500 MVA	
g	Voltage Class Of Support	36 kV or more	
5	VOLTAGE TRANSFORMERS		
a	Make	Siemens or Eq.	
b	System Voltage and Frequency	33 kV & 50 Hz	
c	Ratio	33kV / $\sqrt{3}$ / 110V / $\sqrt{3}$	
d	Connections	Star – Star	
e	Rated Output 1 phase	100 VA(Vendor to decide)	
f	Rated Accuracy	CL 1.0	
g	Power Frequency Withstand Voltage	70 kV	
h	Short Circuit Level.	26.3 kA for 1 sec.	
i	HV and LV Fuse Rating	Vendor to furnish	
6	CURRENT TRANSFORMERS		
a	Make	Siemens/Eq.	
b	Type (Bar/Wound/Any-other)	Bar Type	
c	System Voltage and Frequency	11 KV & 50 Hz	
d	Rated Primary Current	Vendor To Furnish	
e	Ratio	As per drg.	
f	Output	As per drg.	
g	Accuracy class	As per drg.	
h	Short Circuit Level.	26.3 kA for 1 sec.	
i	Power Frequency Withstand Voltage	70 kV	
j	1:2 / 50 Microsecond Impulse Withstand Voltage	170 kV	
7	CIRCUIT BREAKER		
a	Manufacturer's Name	Siemens/ABB/L&T/CGL	
b	Type & Quantity	VCB– 1 No.	
c	Rated Voltage and Frequency	11 kV & 50 Hz	
d	Current Rating of Breaker Under Site Conditions	1250A – 1 no.	
e	Rated Symmetrical Interrupted Current	26.3 kA for 1 sec.	
f	Making Current Capacity	Vendor To Furnish	
g	Short Time Current (1 Sec.)	26.3 kA for 1 sec..	
h	Power Frequency Withstand Voltage	70 kV	
i	1:2/50 Microsecond Impulse Withstand Voltage	170 kV	
j	Duty Cycle For Breaking Capacity	Vendor To Furnish	
k	Nos. of Breaks Per Phase	One	
l	Minimum Clearance	To Suit Voltage Design	
i)	Between Poles	Vendor To Furnish	
ii)	In Air Between Live Parts and Earth	Vendor To Furnish	
m	Fixed Trip / Trip Free	Trip Free	
n	Electrical and Mechanical Anti pumping Feature provided.	Yes	



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SR. NO.	DESCRIPTION	SPECIFIED	VENDORS DATA
o	Type of Operating Mechanism.	Motor Operated Spring charged.	
8	MISCELLANEOUS		
a	Make Type Range of Indicating and Recording Meters	Vendor To Furnish	
b	Make Type and Setting Ranges of Relays	As per drg.	
c	Make Type and Details of Cable Boxes/ Potheads and Glands	Heat Shrinkable Cable Termination	
d	Battery Capacity and Discharge Rate.	Not Required	
e	Battery Charge Capacity for Float / Boost	-----	
9	EARTHING SWITCH/EARTHING TRUCK		
a	Earthing Switch	Not Required	
b	Earthing Truck	Not Required	
10	Communication Features	Required	

Note:

1. Vendor to make ensure that the size of the panel shall be accommodate in existing HT panel room with necessary clearance. Any open space on trench/ground shall be covered by chequered plates.
2. Space Heater with Thermostat Control Shall Be Provided in Each Panel.
3. Breaker Panel Shall Be Suitable for Future Expansion.
4. A minimum space of 500mm shall be available from the panel gland plate to 11 kV cable terminations, to accommodate cable bending radius and HV cable termination.
5. Any Switchgear Components for Which Make Is Not Specified In This Data Sheet, Shall Be As Per Approved Manufacturer List Given Separately Or Vendor Shall Obtain Approval Of Such Items In Writing From Customer / Consultant.
6. Relays Shall Be With 3.0/1.3 Characteristics.
7. The Relays should be suitable for all operation required for SCADA/Remote monitoring and operation under normal and emergency condition and should also comply with the technical specification of the breaker.
8. Horizontal & Vertical Bus bars shall be provided with Heat Shrinkable Type Sleeves & Bus bar Joints Shall Be Shrouded.
9. All "Vendor Data" Shall Be Furnished by Vendor During Enquiry Stage.
10. Provision for connecting panel with DCS/PLC shall be provided for remote monitoring and operation in normal and emergency conditions.

21. Bill of Quantities – 11KV HV Indoor VCB Panel

Cubical shall be totally enclosed type weather, dust and vermin proof, isolator horizontal draw out type Vacuum circuit breaker, 11 kV, 1250 Amps, 50 Hz, 26.3 kA for 1 sec. capacity suitable for indoor installations confirming to IS 2516 / BS 5311 / IEC 56. Totally enclosed, free standing, sheet steel



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clad, cubical pattern, extendable HV Kiosk, complete with 1250 amps PVC sleeved, Copper bus bar as detailed below:

1 No. 11 KV ICOG HV panel comprising of:

1 No. TP Vacuum circuit breaker, horizontal draw out type rated current 1250 A fitted with

1 No. 24V DC shunt trip coil

1 No. 24V DC closing coil

1 No. Spring charging motor suitable for operation on universal motor or 24V DC.

1 No. Mechanical position indicator showing spring charged and spring free.

1 No. Mechanical ON / OFF indicator.

1 no. Surge suppresser unit

1 Set of mechanical trip /closed levers

1 No. Remote / local VCB control switch

1 No. Operation counter.

1 set of compression for control cables.

1 No. Test terminal block

1 No. Anti-pumping contactor / relay.

1 Set auxiliary relay Auxiliary contact 11 N/O + 11 N/C

3 Nos. 100/50/1A, CL.1.0, 15VA resin cast type secondary current transformer for metering. (Core-I)

3 Nos. 100/50/1A, CL.5P10, 15VA resin cast type secondary current transformer for Protection. (Core-II)

1 No. IDMT 3 over Current relay - Make: Areva CDG 31 OR Eq

1 No. Trip circuit supervision relay- Make: Areva VAX 31 OR Eq

1 No. Master Trip relay- Make: Areva VAJH 13 OR Eq.

1 No. Restricted Earth Fault relay- Make: Areva CAG14 OR Eq.

2 Nos. Auxiliary relay for Transformer Alarm & Tripping Make Area VAA33 or Eq.

2 Nos. Under voltage relay - Make: Areva VAG 11 OR Eq.

1 No. Timer for Under voltage relay- Make : Areva VTT11 OR Eq.

1 No. Winding Temperature Relay

1 No. DC Supply failure relay



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The relays shall be capable for integration with SCADA/Remote operation.

(Please quote numerical relays alternate to conventional type for protection)

1 Set of 3 phase, resin cast draw out type potential transformer ratio $11\text{ kV}/\sqrt{3}/110/\sqrt{3}\text{V}$, class 1 accuracy, 100 VA / Ph burden (suitable), complete with HT & LT fuses and connected to incoming side.

1 No. 3 Ph, 3wire Load manager having the facility of measuring/ monitoring of amps, volt, pf, Hz, kW, kWh, kVA, kVAH and etc., also run hrs., load on/off time and interruption, stored energy record, load shedding facility, (240V AC control supply). These parameters shall be possible to display locally as well as centralised DCS/PLC system by means of communication serial port facility with modbus / profibus protocol. Load manager shall have 2 programmable relay output contacts.

1 No. Trip Neutral Close VCB control switch.

1 No. Ammeter with ammeter selector switch (0 – 100+) A

1 No. Voltmeter with voltmeter selector switch 0- 11+ KV

1 Set of R, Y, B phase indication lamps.

1 Set of red and green lamps for ON / OFF indication.

1 No. White lamp for trip circuit healthy

1 No. Amber lamp for trip on fault.

1 No. Blue lamp for spring charged indication.

2 Nos. Push button for Trip circuit healthy & Emergency stop.

1 Panel illuminating lamp with door switch.

1 No. Space heater with switch.

1 set hook up wiring for RTCC Panel/Marshalling box.

AC Alarm annunciation scheme as required window comprising of

1 set of relay output to trip the breaker and give alarm bell, hooter

1 Set of silence/accept / reset / test push buttons.

1 complete set of Draw out type earthing truck

1 No. Space heater with switch.

1 set of control & Power wiring

1 Set of AC /DC consists of MCB, indicating lamps and their associated copper bus bar and wiring.



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1 set 1250 Amps continuous thermal rated for suitable symmetrical breaking capacity of BUS BARS made of electrolytic copper conforming to IS `987. The joint surface shall be silver plated and connections shall be of high-pressure type so as to prevent a low resistant connection.

1 set cable box suitable min. size of **11kV 1 runs 3 core 300 sq.mm XLPE (E) FRLS Al.** cable for Incomer and 1 **run 3 core 300 sq.mm XLPE (E) FRLS Al.** cable for outgoing.

Following tools are required for operation & maintenance of panel shall be supplied with the breaker.

1 No. Hook for handling pole assembly

1 No. Spanner for removing finger contracts

1 No. Double-ended spanner for dismantling rupturing chamber and upper fixed contact assembly.

1 No. Spanner for removing nut.

1 No. Crank for manual charging of the spring.

Note:

1. Earthing terminals to withstand short circuit current and the same to run throughout the length of panel
2. Control wiring shall be done using 1100 volts suitable size PVC insulated copper FRLS cable.
3. All wiring shall be properly ferruled for easy identification.
4. The contacts shall have ample area and contact pressure to limit temperature rise while carrying the rated full load and short time currents to the specified value. The contacts shall be adjustable to allow for wear and tear and be easily accessible for inspection and replacements. The contacts surfaces shall be silver plated to reduce the contact resistance. Multi-breaker interrupter shall be designed as to ensure more or less uniform voltage multi-breaker.
5. The breaker is required for installation at a site whose altitude is less than 1000 meter above MSL and the maximum ambient air temperature is 45°C ambient.
6. Signal cable from transformer marshalling box to HV Switchgear interfacing shall properly be connected for alarm and tripping scheme.
7. The switchgear panel shall be complete with all other required fittings.
8. The Bidder shall furnish all the test certificates as per ISS - 2516 and A.S.T.A certificate for short circuit capacity for the switchgear offered along with the offer.

22. List of Recommended Vendors

Final choice of the make from the below list shall be decided by the DAFFPL.

Make of any other equipment / components not mentioned below or anywhere else shall have to be approved by DAFFPL.



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Sr.	Description	Recommended Make
1	– Air Circuit Breaker (ACB) / Moulded Circuit Breaker (MCCB) / Switch Disconnecter Fuse Units / Contactors and O/L Relay / HRC Fuse with base – LT SWITCHGEAR	– L&T / SIEMENS / ABB / Schneider / C & S
2	– Push Buttons / Indicating lamps	– L&T / SIEMENS / Teknik / Raas
3	– Load Manager / Meters / Measuring Instruments	– HPL / Enercon / Conzerv / Rishabh / Trinity/EI measure
4	– MCB / ELCB / ELMCB	– Hager / HPL / Indo Asian / Havells
5	– Protective Relays	– CSPC / Alstom / ABB / GE
6	–Flame Proof Cable Gland	–Dowells / Sunilco/Cosmos/Equivalent
7	– Terminals	– Elmex / Connectwell
8	– Wires - FRLS	– Finolex / Havells / Polycab / Avocab
	Electrical Cable (H.T./L.T.) XLPE / PVC FRLS	– Polycab / Finolex / Gemscab / KEI /Havells / Primecab / Avocab/Uniflex
9	– Flameproof Equipments	– FCG / CEAG / Sudhir / CG / EXEC /SEPL
10	– Lighting Fixtures	– Crompton / Wipro / Philips / Bajaj
11	– Cable Lugs	– Dowells / Cosmos /Equivalent
12	– Flameproof Exhaust Fan	– Crompton / FCG / Sudhir / CEAG
13	– Current Transformer	– Ashmor / Kappa / Indcoil
14	– Switch Socket & Plugs for offices	– Anchor Roma / Legrand / WIPRO
15	– Industrial type Switch, Socket and Plug for non hazardous areas	– Legrand / Clipsal / Havells / Hager



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ANNEXURE I – DEVIATION SHEET

EXCEPTION AND DEVIATIONS STATEMENT				
S.NO.	PAGE NO. OF TENDER DOCUMENT	CLAUSE NO.	SUBJECT	DEVIATIONS

Bidder shall list all the deviations in the following given format only on their Letterhead. The Deviation sheet should be submitted along with technical bid.

In case no deviation sheet is submitted along with technical bid, it would be concluded that bidder has accepted all specifications, terms and conditions.

Sign & Stamp of Bidder



DELHI AVIATION FUEL FACILITY PRIVATE LIMITED

ANNEXURE II – DECLARATION SHEET

Date:

DECLARATION

We, M/s _____ hereby, unconditionally accept all terms & conditions of TENDER NO.: DAFFPL/FF/2022-23/13 (JOB: TENDER FOR 11KV ELECTRICAL POWER SYSTEM) including Scope of job, quantities, completion period, terms & condition without any deviations.

Sign & Stamp of Bidder

Note: In case of deviations (whether technical or commercial) the above declaration should not be submitted, and the deviations should be mentioned separately on bidders letter head with the heading "DEVIATION SHEET". In absence of "DEVIATION SHEET", it would be concluded that bidder has submitted his offer as per tender specifications, terms & conditions. Corrections in tender booklet will not be accepted.

Sign & Stamp of Bidder



DELHI AVIATION FUEL FACILITY PRIVATE LIMITED

ANNEXURE-III

PROFORMA OF BANK GUARANTEE (EARNEST MONEY DEPOSIT)

(On Non-Judicial Stamp paper for appropriate value)

BANK GUARANTEE NO. :

BANK GUARANTEE AMOUNT:

CLAIM:

(Till 120 days from date of submission of Proposal)

TENDER NO. /DATE:

JOB DESCRIPTION/

LOCATION:

Tender Security No. [*]

Name and Address of the Beneficiary: Delhi Aviation Fuel Facility (Private) Limited
Aviation Fuelling Station, Shahabad Mohammadpur, IGI Airport, New Delhi – 110 061, India

We [*name and address of the issuing bank*] have been informed that [*Name of the Interested party*] (hereinafter called the “Interested Party”) is submitting a proposal for the Award of the Works in response to a Request for Proposal (“RFP”) by Delhi Aviation Fuel Facility (P.) Ltd. (“DAFFPL” or ‘Beneficiary’) for [*Insert description of work*] (“Works”). The conditions of the RFP, which are set out in a documents entitled Request for Proposal dated [*Please insert*] require its offer to be supported by a Tender Security.

At the request of the Interested Party, we hereby irrevocably undertake to pay you without demur, the Beneficiary, any sum or sums not exceeding Rs. _____ [*Please insert*].

Upon receipt by us of your demand in writing and your written statement (in the demand) stating that:

- 1) The Interested Party has, without written consent of DAFFPL, withdrawn its offer after the latest time specified for its submission and before the expiry of its period of validity; or
- 2) The Interested Party has refused to accept the correction of errors in nits offer in accordance with the instructions to Interested parties contained in the RFP; or

Sign & Stamp of Bidder



DELHI AVIATION FUEL FACILITY PRIVATE LIMITED

- 3) DAFFPL entered in to the contract with the Interested party but the Interested party has failed to deliver the **COMPOSITE BANK GUARANTEE (SECURITY DEPOSIT & PERFORMANCE)** in compliance with the Contract conditions; or
- 4) The Interested Party has failed to enter into the Contract within 30 (Thirty) days of being required to do so by the Tender Officer.

Any demand for payment must contain your signature(s). The demand must be received by us at this office on or before the expiry of the earliest of the following dates, when this security guarantee shall expire and shall be returned to us:

- a) Date of issue of letter communicating to the Interested Party that it has not qualified for the contract or the Proposal submitted by the Interested Party is unsuccessful or the TENDER is withdrawn and/or cancelled by the Beneficiary; or
- b) 7 (seven) days after the date of delivery of an acceptable performance bond complying with the Contract conditions and execution of the Contract after the award of the works to the Interested Party; or
- c) 120 (One hundred twenty) days from the last date of submission of Proposal in accordance with the TENDER.

Date:

Signature:

Designation:

Name of the Branch

Sign & Stamp of Bidder



DELHI AVIATION FUEL FACILITY PRIVATE LIMITED

ANNEXURE-IV

PROFORMA OF COMPOSITE BANK GUARANTEE (SECURITY DEPOSIT & PERFORMANCE)

(On Non-Judicial paper of Rs. 100/-value)

To,

DAFFPL

Dear Sirs,

M/shave taken tender for the workfor DAFFPL,.

The tender Conditions of Contract provide that the Contractor shall pay a sum of Rs. (Rupees) as security deposit & performance guarantee in the form therein mentioned. The form of payment of security deposit & performance guarantee includes guarantee executed by Scheduled Bank at New Delhi, undertaking full responsibility to indemnify DAFFPL, in case of default. The said party have approached us at and their request and in consideration of the premises we having our office at have agreed to give such guarantees as hereinafter mentioned.

1. We -----hereby undertake and agree with you that if default shall be made by M/s. -----in performing any of the terms and conditions of the tender or in payment of any money payable to Daffpl. We shall on demand pay to you, without demur, protest or requiring you to seek recourse to M/s _____, in such matter as to you may direct the said amount of Rupees ----- only or such portion thereof not exceeding the said sum as you may from time to time require.
2. You will have the full liberty without reference to us and without effecting this guarantee, postpones for any time or from time to time the exercise of any of the powers and rights conferred on you under the contract with the said -----and to enforce or to forbear from endorsing any powers of rights or by reason of time being given to the said -----which under law relating to the sureties would but for provision have the effect of releasing us.
3. Your right to recover the said sum of Rs. ----- (Rupees -----) from us in manner aforesaid will not be affected or suspended by reason of the fact that any dispute or disputes have been raised by the said M/s. -----

Sign & Stamp of Bidder



DELHI AVIATION FUEL FACILITY PRIVATE LIMITED

- and/or that any dispute or disputes are pending before any officer, tribunal or court.
4. The guarantee herein contained shall not be determined or affected by the liquidation or winding up dissolution or change of constitution or insolvency of the said -----but shall in all respect and for all purposes be binding operative units payment of all money due to you in respect of such liabilities is paid.
 5. Our liability under this guarantee is restricted to Rupees -----our guarantee shall remain in force until -----unless a suit or action to enforce a claim under Guarantee is filed against us within six months from -----(which is date of expiry of guarantee) all our rights under the said guarantee shall be forfeited and we shall be relieved and discharged from all liabilities there under.
 6. NOT WITHSTANDING anything hereinbefore contained our liability under this Bank Guarantee is restricted to Rupees -----(Rupees -----).This Bank Guarantee shall be valid up to -----and we are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before -----.
 7. This guarantee is to be returned to us within fifteen (15) days from the date it ceases to be in force. If the guarantee is not returned to us within the date of aforementioned it shall be automatically cancelled.
 8. We have power to issue this guarantee in your favour under Memorandum and Articles of Association and the undersigned has full power to do under the Power of Attorney dated -----granted to him by the Bank.

Yours faithfully

-----Bank
By its Constituted Attorney
Signature of a person duly
Authorized to sign on behalf of the bank

Sign & Stamp of Bidder



DELHI AVIATION FUEL FACILITY PRIVATE LIMITED

Annexure- V

Form of Letter of Undertaking

[On the letterhead of the Interested Party]

Letter of Undertaking

Date:

Delhi Aviation Fuel Facility (Private) Limited
Aviation Fuelling Station, Shahabad Mohammadpur,
IGI Airport, New Delhi – 110 061, India

Re:

The undersigned Interested Party acknowledges that the TENDER issued is confidential and personal to the undersigned Interested Party and hereby undertakes and agrees as follows:

1. **“Confidential Information”** means the TENDER and everything contained therein, all documentation, data, particulars of the Works and technical or commercial information made by (or on behalf of) Delhi Aviation Fuel Facility (Private) Limited or obtained directly or indirectly from Delhi Aviation Fuel Facility (Private) Limited or its representatives by the undersigned Interested Party or which is generated by the undersigned Interested Party or any information or data that the undersigned Interested Party receives or has access to, as a result of the TENDER, as being confidential information of Delhi Aviation Fuel Facility (Private) Limited, provided that such term does not include information that (a) was publicly known or otherwise known to undersigned Interested Party prior to the time of such disclosure, (b) subsequently becomes publicly known through no act or omission by undersigned Interested Party or any person acting on its behalf.
2. The undersigned Interested Party shall maintain the confidentiality of Confidential Information in accordance with procedures adopted by the undersigned Interested Party in good faith to protect confidential information of third parties delivered to it, provided that the undersigned Interested Party may deliver or disclose Confidential Information to its authorized representatives who agree to hold confidential the Confidential Information substantially in accordance with the terms of this Undertaking.
3. The undersigned Interested Party shall not at any time whatsoever:
 - (i) Disclose, in whole or in part, any Confidential Information received directly or indirectly from the Delhi Aviation Fuel Facility (P) Limited to any third party.

Sign & Stamp of Bidder



DELHI AVIATION FUEL FACILITY PRIVATE LIMITED

(ii) Reproduce, publish, transmit, translate, modify, compile or otherwise transfer the Confidential Information.

4. In case the Proposal of the undersigned Interested Party is not accepted and immediately upon the acceptance of the Proposal of any of the other Interested Party, the undersigned Interested Party, shall:

(i) Return all Confidential Information including without limitation, all originals, copies, reproductions and summaries of Confidential Information; and

(ii) Destroy all copies of Confidential Information in its possession, power or control, which are present on magnetic media, optical disk or other storage device, in a manner that ensures that the Confidential Information is rendered unrecoverable.

5. The undersigned Interested Party shall certify to Delhi Aviation Fuel Facility (Private) Limited that it has returned or destroyed such Confidential Information to the Delhi Aviation Fuel (Private) Limited within two (2) days of such a request being made by Delhi Aviation Fuel (Private) Limited.

Name of Interested Party's

Signature of Authorized Representative

Sign & Stamp of Bidder



DELHI AVIATION FUEL FACILITY PRIVATE LIMITED

Annexure VI

DECLARATION to be submitted along with Technical Bid

(M/s. _____) hereby declare / clarify that we have not been banned or delisted by IOCL/BPCL/DIAL or any government or quasi Government agencies or Public Sector Undertakings.

Stamp & Signature of the bidder

NOTE: If a bidder has been banned by IOCL/BPCL/DIAL or any Government or quasi Government agencies or PSUs, this fact must be clearly stated with details. If this declaration is not given along with the technical bid, the tender will be rejected as non-responsive.

Sign & Stamp of Bidder



DELHI AVIATION FUEL FACILITY PRIVATE LIMITED

ANNEXURE VII

STATEMENT OF CREDENTIALS

(A)

1. NAME AND CORRESPONDENCE ADDRESS OF THE TENDERER

PERMANENT ADDRESS OF THE TENDERER

2. TELEPHONE NO. _____

MOBILE NO. _____

3. NAME OF CONTACT PERSON(s): _____

4. NAME OF THE AUTHORISED SIGNATORY: _____

5. E Mail ID: _____

Sign & Stamp of Bidder



DELHI AVIATION FUEL FACILITY PRIVATE LIMITED

(B) TYPE OF BUSINESS ENTITY:

1. YEAR OF ESTABLISHMENT OF THE FIRM: _____

2. SOLE PROPRIETORSHIP: - _____

(Give Name of the Proprietor)

OR

3. PARTNERSHIP FIRM?

(Give names of the Partners and enclose scan copy of Partnership deed)

1. _____

2. _____

3. _____

4. _____

OR

4. PRIVATE OR PUBLIC LIMITED COMPANY?

(Attach list of Directors and copy of Certificate of Incorporation as defined in "Other Mandatory Documents")

(C) Details of Completed Purchase Orders of minimum value as per Pre-qualification criteria (PQC/BQC) during last SEVEN years as specified in PQC/BQC of the tender.

Sign & Stamp of Bidder



DELHI AVIATION FUEL FACILITY PRIVATE LIMITED

Sl. No	Particulars	1	2	3
a	Party's Name to whom supplied, Clear Postal Address, Telephone/Fax Nos and E-Mail Address.			
b	<u>Purchase Order Details-</u>			
	PO Reference No.			
	PO Date			
	PO Value (Rs. in Lakhs)			
c	Quantity & place of supply			
d	Scheduled time of completion as per PO			
e	Date of commencement of supply			
f	Date of completion of supply			
g	Completion certificate reference and date			

Note: a. Tenderer should furnish copy of the above-referred orders (as defined under PQC documents) and

b. Enclose a separate statement if space is not sufficient.

(D) **Annual Turnover (as per Audited Balance Sheet) in following last THREE financial years**

SL No.	Financial Year	Value (Rs. In Lakhs)
1	2019-2020	
2	2020-2021	
3	2021-2022	

Sign & Stamp of Bidder



DELHI AVIATION FUEL FACILITY PRIVATE LIMITED

Note : Tenderer should furnish copy of audited accounts as proof of turnover (as defined under tender documents).

(E) INCOME TAX DETAILS:

i. Income Tax Returns Filed:

ASSESSMENT YEAR	DATE	ACKNOWLEDGEMENT NO
2019-2020		
2020-2021		
2021-2022		

Note: Tenderer should furnish copy of the Income Tax Return filed.

ii. Income Tax Assessment Orders for following three financial years:

ASSESSMENT YEAR	ASSESSMENT ORDER & DATE	REMARKS
2019-2020		
2020-2021		
2021-2022		

Copies of Income Tax assessment orders / return filed / acknowledgement order for the three years as indicated above.

(F) GST Registration Details:

GST Registration no	
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Note: Tenderer should furnish copies of above Tax Registration Certificates.

Sign & Stamp of Bidder



DELHI AVIATION FUEL FACILITY PRIVATE LIMITED

(G) **Mode of EMD (Online EMD or BG):**

i. If paid Online:

AMOUNT	Rs.
(RTGS/NEFT/NET BANKING)	
Transaction Detail	

ii. If Bank Guarantee submitted (following details to be given) :

Name of the Issuing Bank and Branch Address	Bank Guarantee No and Date	BG Amount Rs.	Date of issuance	Valid Upto

(H) Production Capacity Details: (in case of manufacturer)

S. N	Item	Factory/ Location	Installed/ Capacity	Already Committed Capacity (For current Purchase orders in hand)	Spare Capacity, If Any	Capacity Committed to DAFFPL against this tender
			A	B	C=A-B	

Sign & Stamp of Bidder



DELHI AVIATION FUEL FACILITY PRIVATE LIMITED

Factory License and Address Details:

- (J) **In case the bidder is not a manufacturer, the bidder should submit an undertaking on Letter Head that the bidder is capable of supplying the material / equipment as per tender requirement.**

- (K) **Pan Card Details**

**Relation of Pan Holder to Tenderer
(PROP./PARTNER/COMPANY ETC.)
(Tenderer is required to upload copy of PAN card as detailed in "Other Mandatory documents")**

- (L) **Details of Documents uploaded along with Tender documents in technical bid and confirmation required to be furnished by tenderer.**

Sign & Stamp of Bidder



DELHI AVIATION FUEL FACILITY PRIVATE LIMITED

PAYMENT TO VENDORS THROUGH ELECTRONIC MODE

Tenderers are requested to submit their Consent Letter as per the format given below along with the enclosures as required:

Dated:

To,
M/s DAFFPL.

Dear Sir,

With reference to your advice, we hereby agree to accept the payment of our bills through "RTGS/NEFT/Electronic Mode". The desired bank account details are given below:

1.	Name of Beneficiary	
2.	Name of the Beneficiary's Bank	
3.	Address of the Beneficiary's Bank Branch	
4.	Contact details of Branch with STD Code	
5.	Beneficiary's Bank Account No. (as per cheque copy)	
6.	Beneficiary's Account Type (SB/CC/CA)	
7.	Beneficiary's Bank IFSC Code (11 Digit)	
8.	Mobile No of Beneficiary (One Number only)	
9.	E-Mail Id of Beneficiary (One Mail Id only)	

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

Sign & Stamp of Bidder