



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/2021-22/05

INVITING TENDER FOR
SUPPLY OF MOTOR OPERATED GATE VALVES & HAND WHEEL
OPERATED GATE VALVES

BID DUE DATE & TIME: 1500 Hrs. IST on 29th November 2021

OPENING OF TECHNICAL BIDS: 1100 Hrs. IST on 30th November 2021



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PRICE BID FORMAT

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 SUPPLY OF MOTOR OPERATED GATE VALVES & HAND WHEEL OPERATED GATE VALVES AS PER SPECIFICATIONS

TENDER NO: DAFFPL/FF/2021-22/05

Delhi Aviation Fuel Facility (P) Ltd (DAFFPL) invites bids from eligible bidders for supply of Motor Operated Gate Valves & Hand wheel operated Gate Valves.

Brief Scope of work:

We intend to procure MOTOR OPERATED GATE VALVES & HAND WHEEL OPERATED GATE VALVES complete as per specifications.

Bid Security (EMD):	As mentioned in the Tender document
Date, Time & Venue for Voluntary Pre-bid Meeting:	9 th November 2021; 1500 HRS (IST) at DAFFPL, Aviation Fueling Station, Shahabad Mohammadpur, New Delhi-110061
Last Date of Submission of Queries	Upto 13:00 HRS (IST) on 15 th November 2021.
Bid Due Date, Time & Place of Submission:	Upto 15:00 HRS (IST) on 29 th November 2021, 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



DELHI AVIATION FUEL FACILITY PRIVATE LIMITED

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 Sigh, Asst. Manager Projects, ajay.singh@daffpl.in , 9999946309,	Mr. Manish Kumar Project Officer 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 & same is scheduled for 9th November 2021; 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



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BIDDER on the interpretation of the provisions of tender.

- 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/Bid Security. 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.



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16. **Delivery Period:** Time is the essence of the contract. The total order quantity (06 Nos) of Motor Operated Gate Valves & (10 Nos) of Hand wheel Operated Gate Valves should be delivered within **05 (Five) months** from the date of Letter of Intent/notification of award. Delivery period shall be counted from the date of notification of award (Letter/Fax/e-mail of Intent) up to the date of receipts of (06 Nos) of Motor Operated Gate Valves & (10 Nos) of Hand wheel Operated Gate Valves along with all accessories at DAFFPL Fuel Farm, New Delhi.
17. The contractual delivery period of 05 months is inclusive of all the lead time for procurement of raw materials, manufacturing approvals, the manufacturing, inspection / testing, packing or any other activity whatsoever required to be accomplished for effecting the delivery at the required delivery point.

THE FORMS /ATTACHMENTS TO THIS TENDER ARE AS UNDER:

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



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copies have been annexed hereto.

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



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time in which to take the amendment into account in preparing their bids, we may, at our discretion, extend the bid due date.

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



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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 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. If cost of two or more bids comes out same then preference will be given to bidder having more turnover in last three financial years for each category separately.
31. 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).
32. 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.
33. 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 15 days of receipt of the detailed purchase order, the bidder shall sign and return to the



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owner the duplicate copy of the order as a token of their acknowledgement.

34. 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

35. 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.

36. 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



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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 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.

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, who would be considered for tendering process for the job of "Supply of Motor Operated Gate Valves & Hand wheel Operated Gate Valves at DAFFPL Fuel Farm Facility."

- Bidders need to API Certified manufacturer for gate valves. Authorized distributors/dealers of API certified for Gate valves manufacturers are also permitted to quote; however, in this case bidder shall submit back-to-back guarantee undertaking & after sale support undertaking which is to be provided by the original equipment manufacturer (OEM).
- **MINIMUM QUANTITY SUPPLIED IN THE PAST** The vendors/bidders should have supplied at least 06 Nos of Motor Operated Gate Valves of 16 inch or above diameter in any year of the previous seven years from the due date of bid submission. The valves manufactured by the vendor should have been supply at minimum 02 Petroleum Oil Installations / Terminals in India or abroad. The acceptable proof is copy of tax Invoices/custom documents and the related Purchase orders.

Notes:

- a. Bidder shall submit orders w.r.t. above criteria.
- b. Bidder shall submit the either copy of their own API certificate or API certificate from the OEM along with Technical bid.



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- c. Bidder/Manufacturer shall submit certified copy from manufacturer that the valve is manufactured as per API design standards.
- d. The copy of purchase orders/work orders w.r.t. above criteria to be submitted along with bids.

FINANCIAL CAPACITY

Bidder shall have minimum average annual turnover of **Rs. 48.60 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"

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, 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



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- b. Which is controlled directly or indirectly by a Party; or
 - 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;



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- III. the consortium member descriptions shall indicate what 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



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provide such comfort letter/guarantees as may be required by 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. 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.
- 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 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.



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- 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. 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 times 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 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.

4. 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/inspection.

5. 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



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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.

6. 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.

7. 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



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

8. 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.

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

- a) Materials shall be guaranteed against manufacturing defects, materials, workmanship, and design for a period of 12 months from the date of commissioning or 18 months from the date of delivery whichever is later. 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 vendor s 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) **RISK PURCHASE CLAUSE:** We reserve the right to curtail or cancel the order either in full or part thereof if you fail to comply with delivery schedule and other terms & conditions of the order. DAFFPL also reserves the right to procure same or similar materials/equipment



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

- f) 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 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. 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.

- g) 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.
- h) 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.

CHAPTER 5: SCOPE OF WORK

- a) Scope includes supply of (06 Nos) of Motor Operated Gate Valves & (10 Nos) of Hand wheel Operated Gate Valves along with accessories and hard copies as well as soft copies of applicable drawings/documents etc. for door delivery basis at DAFFPL Fuel Farm in New Delhi.
- b) These shall be suitable for continuous use in Liquid hydrocarbon product, viz. Jet fuel.
- c) Scope includes design/manufacture/assembling/testing, packing & supply in line with specifications mentioned in Annexure-I (technical specifications/material requisition) or anywhere else in tender documents.



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- d) The offer/quoted amount should also include all other elements like Custom Duties (if any), Insurance charges, approval charges, testing charges, transportation, and commissioning charges at site for door delivered price of equipment at DAFFPL Fuel Farm, New Delhi in India.

CHAPTER 6: 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 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. 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/



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Laws etc., entirely of their own. It is also for the Vendor to ascertain 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.
4. 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.
 5. Bidder shall quote considering the cost of all approvals, insurances and other applicable charges; nothing shall be paid/reimbursed additionally on any account.
 6. 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.
 7. 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-



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over would be to seller account.

- 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.

8. 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.

9. EMD / BID SECURITY



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

10. CONTRACT PERFORMANCE BANK GUARANTEE [CPBG]



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- a) As a Performance security, the successful Bidder, to whom the work is awarded by, shall be required to furnish within 30 days of notification of award of contract (Letter/ Fax/e-mail of Intent) a Performance Bank Guarantee on RS.100/- VALUE non-judicial stamp paper in favour of the Owner (M/S DAFFPL).
- b) The Bank Guarantee amount shall be equal to TEN PERCENT (10%) of the Total Order Value, and it shall guarantee the faithful performance of the Order in accordance with the Terms and conditions specified in the documents and specifications.
- c) CPBG shall be in the form of an irrevocable Bank Guarantee (in the format attached) issued by any Indian Scheduled Bank (other than Co-operative Bank).
- d) The Bank Guarantee shall be valid for the entire period of the Contract, namely, till the end of the guarantee / warranty period. The guarantee amount shall be payable on demand to the Owner.
- e) In case, the Contract Performance Bank Guarantee stated above gets reduced/ deducted for reasons of non-fulfillment of any Contractual obligations upto the completion of guarantee period, the bidder shall immediately take action to increase the value of Bank Guarantee to TEN PERCENT (10%) of the Contract price, to cover his guarantee/warranty obligations.
- f) The Performance Guarantee 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 bank guarantee shall have a claim period of 06 months beyond the contractual guarantee period.
- g) The proceeds of performance security shall be appropriated by the owner as compensation for any loss resulting from vendor's failure to complete his obligations under the contract to the prejudice to any of the rights or remedies the owner may be entitled to as per terms and conditions of contract. The proceeds of this performance security shall also govern the successful performance of goods and services and vendors all obligations during the entire period of contractual warrantee / guarantee.

11. PRICE REDUCTION FOR DELAY IN DELIVERY:

- a) The completion period quoted must be realistic & specific. The inability of successful bidder to execute orders in accordance with the agreed completion schedule will entitle DAFFPL, at its options, to:
- b) Accept delayed delivery at prices reduced by a sum equivalent to half percent (0.5%) of the total order value of material not delivered



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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. Date of delivery of material/equipments at DAFFPL site shall be considered for calculation of price reduction.

- c) The price reduction clause shall become applicable for delivery of material/equipment beyond the schedule delivery period.
- d) The price reduction will be applicable on ready to use (06 Nos) of Motor Operated Gate Valve/s & (10 Nos) of Hand Operated Gate Valve/s which is delivered after due date and total cost of material which is delivered after due date shall be considered for application of this clause.

12. Early Delivery: DAFFPL shall appreciate early delivery of the complete (06 Nos) of Motor Operated Gate Valves & (10 Nos) of Hand wheel Operated Gate Valves.

13. INSURANCE

Supplier 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.

The complete unit is to be fully insured by the Fabricator/Manufacturer/Supplier against loss, damage, and third party risks till the material/equipment is delivered to final destination.

TRANSIT & COMPREHENSIVE INSURANCE

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

14. 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 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.

15. GUARANTEE/WARRANTY:

- i) Materials shall be guaranteed against manufacturing defects, materials, workmanship, and design for a period of 12 months from the date of commissioning or 18 months from the date of delivery at DAFFPL site whichever is later. 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.
- j) 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.
- k) 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.
- l) The Vendor shall provide similar warranty on the parts, components, fittings, accessories etc. so repaired and / or replaced.
- m) Vendor shall guarantee that the performance of the EQUIPMENT



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supplied under the CONTRACT shall be strictly in conformity with the specifications and shall perform the duties specified under the CONTRACT.

- n) During the entire warranty period as above, the bidder shall attend to break downs within a period of 72 hours. The scope of the vendor shall include the spares, tools & tackles etc. visit of service personnel and other traveling/boarding expenses replacement of defective parts free of cost, if any. However, suitable assistance (unskilled labour and lifting tools) if any, required for attending the service/repairs will be provided by the Owner.
- o) 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 materials/equipment through other sources at vendor's entire risk, cost and consequences.

16. AFTER SALES SERVICES:

Vendor/bidder should assume complete responsibility of satisfactory performance of the Motor operated gate valves & Hand wheel operated gate valves and material used and the after sales service. During the period of warranty, the vendor shall provide free maintenance and service backup. All the complaints shall be attended to immediately within 72 hrs of reporting of a complaint.

17. TEST & PERFORMANCE CERTIFICATES: Bidder shall furnish Material test and Performance Certificates for the materials along with the challans and invoice.

18. 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.

Advance Payment is not permissible in this contract.

Submission of PBG equal to 10% of Total Order Value with in 30 days of issue of LOI/PO is compulsory.

The following payment terms shall be applicable:

- 80% will be released within 30 days from after the receipt and acceptance of material at site adjusting deductible if any.
- Balance 20% after completion of installation, testing &



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commissioning of Material at site on prorata basis.

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

19. 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.
20. 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.
21. 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.
22. 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.
23. 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.



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24. **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 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.
25. **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 s 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.
26. **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.

27. **REJECTION, REMOVAL OF REJECTED GOODS AND REPLACEMENT:** In case



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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 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.

28. 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.

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

30. 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.



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- iv. The vendor makes a general assignment for the benefit of creditors.
 - v. A receiver is appointed for any of the property owned by 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.
31. 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.
32. 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.



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33. **GOVERNING LAW:** These General Purchase Conditions shall be governed by the Laws of India.
34. **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.
35. 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.

36. 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 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.

37. 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



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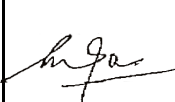
made there under for the time being in force shall apply to the arbitration proceedings under this clause.

- 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 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.

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Document No.	DAFFPL-SGC-MR-0005	Rev.	0	

Project Name:	Providing Design Consultancy Services for Laying of Additional Receipt Header inside Fuel Farm Facility of DAFFPL.		
Client:	Delhi Aviation Fuel Facility Private Limited		
Location:	DELHI	Document No.:	DAFFPL-SGC-MR-0005



MATERIAL REQUISITION FOR 10” GATE VALVE AND 16” MOTOR OPERATED GATE VALVE

						
0	30-10-2021	For Tender	DR	AP	SKJ	

	Delhi Aviation Fuel Facility Private Limited			
Project Name	Providing Design Consultancy Services for Laying of Additional Receipt Header inside Fuel Farm Facility of DAFFPL.			
Document No.	DAFFPL-SGC-MR-0005	Rev.	0	

Rev	Date	Description	Prepared	Reviewed	Approved	Client Review
Sr. No.	Item Description			Ref.		Qty.
1	HAND WHEEL OPERATED GATE VALVE - SIZE 10" (250 NB): Gate valve, Designed and Manufactured to API 600 standard (latest edition) for materials, construction and dimensions, Face to face and end to end as per API 600. Rising stem, Non rising Hand wheel.			Datasheet and Technical Specifications		10
2	MOTOR OPERATED GATE VALVE - SIZE 16" (400 NB): Gate valve, Metal to Metal seated, Anti-static design, anti-blow-out stem. Electric Actuator with Integral Starter suitable for Gate valve, 2 wire remote control communicating to Existing Master Station. Supply of Local Push Button station shall be in the scope of bidder.					6
3	Commissioning Assistance: (For Sr. No. 2 only) Bidder shall provide Installation and commissioning assistance of MOTOR OPERATED GATE VALVES at Owner Premises. Owner will provide intimation 07 days prior to the installation of Bidder Supplied valve in order to make Bidder's representative available along with necessary arrangements for Installation and commissioning assistance.			Bidder to Quote Lumpsum Separately		6

Annexure No.	Description
A	TECHNICAL SPECIFICATIONS FOR GATE VALVE AND MOTOR OPERATED GATE VALVE
B	TECHNICAL SPECIFICATIONS FOR ELECTRIC ACTUATOR
C	DATASHEET FOR ELECTRIC ACTUATOR
D	DATASHEET FOR 10" and 16" GATE VALVE

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 DAFFPL (A JV of IOCL, BPCL and DIAL)	Delhi Aviation Fuel Facility Private Limited			 GLOBAL CONSULTANTS
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ANNEXURE - A

TECHNICAL SPECIFICATIONS FOR GATE VALVE AND MOTOR OPERATED GATE VALVE

						
0	30-10-2021	For Tender	DR	AP	SKJ	
Rev	Date	Description	Prepared	Reviewed	Approved	Client Review

	Delhi Aviation Fuel Facility Private Limited			
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1.0 CODES, SPECIFICATIONS & STANDARDS



1.1 This specification establishes the technical requirements for Hand wheel operated Gate Valve and Motorized Gate valves to be used for isolation purpose handling refined petroleum liquid hydrocarbon product (Jet A-1 ATF as per IS 1571 latest Edition). The Size and pressure rating of valves required shall be as per Material Requisition of the tender document. The valve shall be conforming to API-600 specifications. This specification covers the minimum requirements for the design, manufacture, Assembly, Inspection, testing, certification & delivery of Manual / electrically operated Gate valves complete with all accessories. Specifications of electrical actuators is covered in Annexure B of this document.

2.0 APPLICABLE CODES, SPECIFICATIONS AND STANDARDS

2.1 APPLICABLE CODES & STANDARDS

2.1.1 The design, manufacture, assembly, inspection, testing and certification of isolation Gate valves shall be in accordance with the latest edition of the codes & standards including amendments as mentioned in the tender specifications. Some of the standards have been listed below for ready reference:

Code Reference	Description
API 600	Steel Gate Valves—Flanged and Butt-welding Ends, Bolted Bonnets
API (EI) 598	Valve Inspections & Testing.
API (EI) 6FA	Specifications for Fire Test for Valves.
ASME B16.5	Steel Pipe Flanges & Flanged Fittings.
ASME B16.10	Face to Face and End to End Dimensions of Valves.
ASME B16.34	Valves - Flanged, Threaded and Welding Ends.
ASME B31.3	Chemical Plant and Petroleum Refinery Piping.
ANSI B46.1	Surface Texture (Surface Roughness, Waviness).
BSEN 12266 Part 2	Industrial Valves, Testing of Valves, Test Procedure & Acceptance criteria.
EN 50018	Electrical Apparatus for Potentially Explosive Atmosphere.
IEC 60079	Electrical Apparatus to Explosive Gas Atmosphere.
IEC 60529	Classification of Degrees of Protection Provided by Enclosures (IP codes).
IEC 60801	Electromagnetic Compatibility of Industrial Process Management & control Equipment.
IEC 61508	Functional Safety of Electrical / Electronic / Programmable Electronic Safety Related
IEC 61511	Functional Safety- Safety Instrumented Systems for the Process Industry Sector.
MSS SP 61	Pressure Testing of Steel Valves.
SSPC-VIS-1	Steel Structures Painting Council Visual Standards.
IS 2148	Flame Proof Enclosures for Electrical Apparatus.
IS 1271	Methods For Determining Thermal Classification of Electric Insulation.
ASTM D 1655	Standard Specification for Aviation Turbine Fuels

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2.2 DEVIATIONS TO SPECIFICATIONS

2.2.1 The Bidder shall provide an itemized list of any deviations to this specification. These shall be listed on the Compliance sheet with seal & duly signed by authorized signatory & shall be submitted along with offer by the Bidder.

2.2.2 Where a conflict between standards occurs then the Bidder shall seek a clarification ruling from the Owner. Where a deviation from the standard is required, then the Bidder shall make a formal request with full supporting information.

2.2.3 Only those deviations that are agreed between the Owner and the Bidder will be Incorporated into the requisition at the time of order.

2.3 CONFLICTING REQUIREMENT

In the event of conflict between the requirement of this specification, API 600 and related Codes, Standards and Specifications referred above, the requirement of this Specification shall govern in the Order of following Precedence:



1st Precedence	Data Sheets.
2nd Precedence	This Specification.
3rd Precedence	API 600.
4th Precedence	All the Referred Codes & Standards.
5th Precedence	Manufacturer's Standards.

Note:

Should any conflict arise either before or after order placement the Bidder shall immediately inform the Owner for technical resolution of the conflict.



2.4 ABBREVIATIONS & TERMINOLOGY

CE	Carbon Equivalent.
FAT	Factory Acceptance Test.
Owner / DAFFPL	Delhi Aviation Fuel Farm Facility Limited.
MOV	MOTOR OPERATED GATE VALVE.
HOV	Hand wheel Operated Gate Valve.
QAP	Quality Assurance Plan.

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3.0 HAZARDOUS AREA CLASSIFICATION AND PROTECTION

- a. Instruments located in hazardous area shall be certified to meet or exceed the Electrical Hazardous Area defined by Area Classification.
- b. The Actuator accessories shall be flame proof and suitable for hazardous area Zone1, Temp Class T4 or better, Group IIB / IIC or better for application. Additionally, all valve instruments shall be weatherproof conforming to IP67 as minimum. Local Push Button station shall be IP 66 minimum. Instruments certified for use in the specified hazardous area classification, shall have certification / approvals from Accredited International Agencies like FM, ENELEC, PTB, BASSEFA, ATEX.
- c. All enclosures for electrical equipment shall be suitable for use in hazardous area as per Hazardous Area Classification and Vendor shall submit valid Test Certificate issued by CIMFR & PESO, India. Flameproof Enclosures and Instruments, which are manufactured outside India and certified by Accredited International Authorities, shall also have approval from PESO, India.

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4.0 SCOPE OF SUPPLY



1. The Scope of this Tender covers design, manufacture, testing and supply of Hand wheel Operated Gate Valve and Motor Operated Gate Valve which are to be installed (By other agency) on the pipeline of petroleum products storage tanks as per attached Specifications and Data Sheets.
2. The materials, design and workmanship shall satisfy the relevant Standards, Specifications, Codes referred in this document. In case, the Specifications stipulate requirement in addition to those contained in these Standard, Codes and Specifications, these additional requirements shall also be satisfied.
3. The Bidder shall supply the complete assembled and tested valve/(s) with actuator unit with all accessories (Position Indicator etc.) including Local Push Button Station to Owner Premises. Unloading of supplied Valves at Owners Premises at designated place (As directed by Engineer in charge / Owner's Representative) is inclusive & within the Scope of work for Bidder. The supplied valve/(s) with its systems shall be suitable for the specified site conditions. The packed unit shall be in a weatherproof packaging as the material shall be stored in open area. All components / consumables used shall be new, State of The Art and of current manufacture.
4. This Specification does not relieve the Bidder from Final Guarantee with regards to materials, apparatus, workmanship and performance of the supplied valve/(s).
5. In respect of this tender, the Bidder shall procure materials from approved makes / vendors listed in the Material Requisition sheet, Data Sheet Notes, unless the particular type of material/(s) is not covered by the list, or a special dispensation to deviate from the list has to be granted in writing by the Owner.
6. The Offer / Price, submitted by the Vendor / Bidder is deemed to be inclusive of the Start Up & Commissioning Spares, Equipment, Tool & Tackles, and manpower. No additional payment shall be made in lieu of any account.
7. The Vendor / Bidder shall also provide list of spares for 02 (Two) years of operations post Warranty Period in the Technical Bid for MOV and accessories. Unit rates of the spares, which shall be valid for a period of 36 months from the date of order, shall be provided along with price bid as a separate annexure. However, the owner reserves the right for negotiations & procurement of these spares as & when required from the successful bidder for HOV / MOV's.

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8. The Bidder shall prepare and submit all necessary documents during various stages of the project as listed in this tender document.
9. Approved vendor / makes provided in this tender document, is for the manufacturer name only, and not for any specific model. For all items / components, the offered model must meet the relevant Specification & Requirements as specified in this tender document.
10. The Bidder shall provide the related necessary evidence for use of their valve in similar application in liquid Hydrocarbon industry (provide reference lists with installation dates and run hours accumulated by dates etc.). Only the equipment of proven reliability in similar service conditions, shall be included in the Bidder's proposal (prototype shall not be proposed).
11. Inspection and Testing of all components, sub-assemblies and complete assemblies of items manufactured at Bidder's factory, and other sub-vendor's / supplier's works shall be in accordance with approved QA / QC procedure.
12. Factory Acceptance Test (FAT) shall be performed in line with tender requirements and as per approved post PO FAT procedure at the vendor's testing facility. Providing necessary manpower & equipment, support during testing, is in the Bidder's Scope.
13. The FAT shall be carried out in presence of owner's designated representative or / And owner's third-party inspection agency. The cost towards inspection charges of TPI agency (if any) shall be in owner's scope.

5.0 GENERAL FEATURES / SPECIFICATIONS

1. The valve shall have one operator only. Gear operation (with or without reduction gear) shall be provided as per manufacturer's specifications / relevant standards. The valve shall have Manual override.
2. Gear operator shall be provided with position indicators for open / close positions, with limit stops as per manufacturer's design in line with API- 600. The gear operator shall be totally enclosed of helical worm/bevel or combination of helical worm, bevel and spur gear in grease case with grease nipples/ plugs or as per specifications of manufacturers with weather protection.



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3. Gear operator shall be so designed to operate the valve at break away torque as defined in API-600. The maximum force required at the hand- wheel to apply the breakaway torque or thrust shall not exceed 360 N.
4. Vendor shall be supplying flame proof / PESO, India approved electrical actuators along with the valves where ever specified in the Material Requisition. Actuators of BIFFI, EMI CONTROL, LIMTORQUE, AUMA, ROTORK, ROTEX makes shall be acceptable.
5. The valves shall be with rising stem having one-piece wedge gate (Solid / Flexible).
6. The body and Gate shall have guide surfaces to minimize wear of gate seats during operation of valve, to accurately position the gate thru the travel distance to its seat, and to ensure the alignment of gate and stem in all orientation without gate binding or galling. Wedge guides and / or body guides shall not protrude beyond the seat rings in to the port area of the valve. The Bidder / Manufacturer shall provide in their installation and operation manual any operational limitations as a result of stem and valve orientation
7. MOTOR OPERATED GATE valves shall be directly mounted with flame proof electric actuators / gear operators and delivered to the field as a complete unit.
8. Vendor shall supply valves along with auxiliaries, if any, such as gear operator etc. wherever specified in the specification sheets, subject notes and other enclosures to the tender document.
9. Valve body shall preferably have provision to drain any muck or dirt remains inside the Valve body, which can damage the seats.
10. The valve bodies shall be suitable for above ground open atmosphere Installation & shall be suitable for ambient Temperature range of -5 °C to + 65 °C & Relative humidity up to 98 %.
11. The valve shall be maintainable while being in position either by unbolting from Top or bottom or both. Valve design shall permit sealing slips to be replaced from the Top or bottom with the valve mounted in the piping. Vendor to mention the clearance required below the valve for on-line maintenance.

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6.0 DESIGN DETAILS

1. Valve shall be designed, manufactured, tested, inspected as per API 600, API- 598, ASME B16.34 & other manufacturing standards, design codes and standards (latest editions).
2. Metallic Pressure-containing and pressure controlling parts, including bolting, shall be designed with materials as per manufacturers standards complying with minimum requirements as stipulated API-600.
3. All process-wetted parts, metallic and non-metallic, and lubricants shall be suitable for the commissioning fluid / service - ATF / Jet A1 (As per IS 1571 latest Edition) as specified in Valve Datasheet. Metallic Materials shall be selected so as to avoid corrosion and galling, which would impair function and / or pressure containing capability.
4. The wetted parts shall be suitable coated with chrome coating / plating, Fluorocarbon coating & electro less nickel coating as required to enhance properties of materials for achieving longer life as per manufacturer's standards & Approved QAP.
5. Design and calculations for pressure-containing elements shall be in accordance with an internationally recognized design code or standard with consideration for pipe loads, operating forces, etc. The choice of standard shall be in line with API-600. Pressure & temperature ratings for ASME class-rated valves shall be in accordance with the applicable rating table for the appropriate material group in ASME B16.34.
6. Face-to-Face and end-to-end dimensions of valves shall be in accordance API-600. Face-to-face and end-to-end dimensions for valve sizes not specified in API 600 shall be in accordance with ASME B16.10. Valve connections shall be ASME B16.5, Class 150, raised face flanged, as specified.
7. The position of the obturator shall not be altered by dynamic forces of the passing flow. Valves fitted with manual or powered actuators shall be furnished with a visible indicator to show the open and the closed position of the obturator.
8. For Gate valves, the position indicator shall be in line with the pipeline when the valve is open and transverse when the valve is closed. The design shall be such that the

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component(s) of the indicator and / or wrench cannot be assembled to falsely indicate the valve position. Valves without position stops shall have provision for the verification of open and closed alignment with the operator / actuator removed.

9. Travel stops shall be provided on the valve and / or operator and they shall locate the position of the obturator in the open and closed position. The travel stops shall not affect the sealing capability of the valve. Misalignment or improper assembly of components shall be prevented by suitable means, such as a dowel pin or fitting bolt, which ensures the correct location of manual or powered operators and stem extension assemblies.
10. Welding, including repair welding of pressure-containing and pressure-controlling parts shall be carried in line with API-600.
11. Valve body / bonnet shall be forged / cast as specified. Forgings are acceptable in place of casting but not vice versa.
12. Material of construction of yoke shall be minimum equivalent to body / bonnet material.
13. Stem shall be forged or machined from forged / rolled bar. No casting is permitted. The minimum stem diameter shall be as per API 600. Stem shall have a gate attachment at one end and an external trapezoidal style thread form at the other. Stem Nut shall be used for hand wheel attachment and to drive the operating stem thread.
14. The stem connection shall be designed to prevent the stem from turning or from becoming disengaged from the gate while the valve is in service. The stem nut design shall allow for the removal of the hand wheel while keeping the stem in a fixed position.
15. Unless otherwise specified by the purchaser, the valve shall be supplied with a direct operated hand wheel that opens the valve when turned in a counter clockwise direction
16. The hand wheel shall be a spoke-rim type with a maximum of six spokes and shall be free from burns and sharp edges. Unless otherwise specified the hand wheel shall be a one piece casting or forging or a multi piece carbon steel fabrication that includes other carbon steel product forms. Fabricated hand wheel shall have strength and toughness characteristics comparable to that of hand wheels made as one piece casting or forgings.

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17. The hand wheel shall be marked with the word “OPEN” and an arrow pointing in the direction of opening except when the hand wheel size makes such marking impractical.

18. The hand wheel shall be related on the stem nut by a threaded hand wheel nut.

19. If operation by a chain wheel, gearbox or power actuator is to be added to the valve, the purchaser shall specify the following as applicable.

- for chain wheel operation the dimension from the centerline of the valve stem or gear input shaft to the bottom of the chain loop
- spur or bevel gear and the position of gearing hand wheel relative to pipe axis.
- Electric, hydraulic, pneumatic or other actuator types.
- Power supply attributes for power actuators.

20. Graphite material used for stem packing shall be chloride free i.e., leachable chlorides shall be less than 50 PPM.

21. Stellite / hard-facing by deposition, if required shall be min.1.6mm or as per manufacturer’s specifications.



22. Suitable gaskets are to be provided for body bonnet joints as per Manufacturer’s specifications in line with the requirement of standards.

23. The MOVs are to be installed in an open area and the actuators shall be IP-67 rated. The testing of complete assemblies of MOVs along with the actuators shall be carried out by the supplier at his works.

24. Gate design shall be such that it shall expand only in the closed position and provide a tight mechanical seal. Increases or decreases in line pressure shall not affect the mechanical sealing.

25. DRIVE TRAINS

The design thrust or torque for all drive train calculations shall be at Least two times the breakaway thrust or torque to allow for thrust or torque increase in service due to infrequent cycling and the adverse effect of debris. Allowable Tensile stresses in drive

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train components, including stem extensions, shall not exceed 67 % of SMYS when delivering the design thrust or torque. Shear, torsion and bearing stresses shall not exceed the limits specified in ASME Code Section VIII, Division 2, Part AD- 132, except that design stress intensity values, S_m , shall be 67 % of SMYS. These stress limits do not apply to the components of rolling- element or other proprietary bearings or high bearing strength capable materials that are included in the drive train where manufacturer's recommendations or limits derived from tests and service experience apply. These limits shall be justified in design documents, if requested.

The drive train shall be designed such that the weakest component is outside the Pressure boundary. A strength efficiency factor of 0.75 shall be used for fillet Welds.



Note:

If an actuator or operator can deliver a thrust or torque that is greater than the design thrust or torque of the drive train, such a thrust or torque can result in permanent deformation or failure of drive train Components. Hence careful selection shall be carried out for actuator.

Deflections of the extended drive train shall not prevent the obturator from reaching the fully closed or fully open position. For all valves, attention shall be paid to deflection and strain. Adherence to the allowable stress limits of Design codes alone might not result in a functionally acceptable design.

The manufacturer shall demonstrate, by calculation or test, that under loads resulting from design pressure and any defined pipe or external loads, distortion of the obturator or seat does not impair functionality or sealing.



26. Valves of size DN 200 (NPS 8) and larger shall be provided with lifting points. The manufacturer shall verify suitability of the lifting points. The valve manufacturer shall verify the suitability of the lifting points for the complete valve and operator assembly.
27. All Bidder supplied HOV's (Manual Operated Gate Valves) shall have a provision of mounting actuator in future. However, Bidder to propose the make of actuator to be compatible for HOV's.

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28. Materials of construction for critical valve components shall be as given below in table.

Sr. no.	Description	Specification	Bidders / Vendors Conformation
1.	Body.	Cast Carbon Steel as per ASTM A 216 Gr. WCB.	
2.	Bonnet.	Cast Carbon Steel as per ASTM A 216 Gr. WCB - outside screws.	
3.	Stem.	Rising, ASTM A 276-410.	
4.	Gate (Wedge) & Trim.	Solid or flexible Carbon Steel as per ASTM A 216 Gr. WCB. Trim (other than stem) of 13% Chromium Stainless Steel satellite hard faced.	
5.	Seat Ring.	ASTM A 276-410.	
6.	Back Seat Bush.	ASTM A 276-410.	
7.	Yoke.	Cast Carbon Steel as per ASTM A 216 Gr. WCB.	
8.	End.	Flanged with 1.5 mm raised serrated finish and drilled as per ANSI B 16.5, Table 1A Class # 150.	
9.	Hand Wheel.	Malleable Iron or Steel rounded solid construction ASTM A 358.	
10.	Bonnet Bolt.	ASTM A 193 Gr. B7.	
11.	Bonnet Nut.	ASTM A 194 Gr. 2H.	
12.	Bonnet Gasket.	Steel Wire Mesh Gasket SS304 with compressed Asbestos filler as per Table 1A of API 600.	
13.	Gland Packing.	Braided Asbestos.	

All applicable codes and standards for design, materials, manufacture, testing, inspection etc. shall be of latest editions. Vendor to list all the specifications / standards applicable.

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7.0 INSPECTION & TESTING

1. Valve shall be subject to all the tests and checks required as per quality control requirements of API-600 / API 598 & other relevant standards. However, Bidder shall submit their detailed QAP in line with the specifications stipulated in this tender document. NDE tests shall be carried out in line with API 600 / API 598. Vendor shall be deploying services of TPIA for witnessing tests as per approved QAP at their (Bidder's) cost.

Approved TPIA agencies are:

TUV,
Lloyds,
Certification Engineers India LTD,
Det Norske Veritas,
SGS.

2. Chemical composition and mechanical properties shall be checked as per relevant material standards and this specification, for each heat of steel used.
3. Non-destructive examination of individual valve material and components consisting of, but not limited to castings, forgings, plate and assembly welds shall be carried out by the Manufacturer in line with API-600.
4. The manufacturer shall submit a certificate covering the testing of the valves and certifying the materials of construction used in the valves, according to API 600 and other relevant standards of Latest edition.
5. Valves shall be tested prior to shipment in line with the requirements of API-600 and agreed QAP. Testing shall be performed in the sequence detailed in API-600. Pressure testing shall be carried out before coating of the valves. Test fluid shall be fresh water or, by agreement, light-weight oil having a viscosity not exceeding that of water. Water used for testing shall contain a corrosion inhibitor.

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6. Valves shall be tested with the seating and sealing surfaces free from sealant except where the sealant is the primary means of sealing. A secondary sealant system, if provided, shall not be used before or during tests.
7. Supply pressure shall be stabilized prior to the start of pressure testing and shall be held for the minimum test durations listed in API-600.
8. Fire type-testing certification of the design shall be provided. The fire-resistance design of valves shall be qualified by fire type-testing in accordance with ISO 10497. Fire resistance designs already qualified to ISO 10497, API 6FA, API 6FC, API 6FD or API 607 are also acceptable as per stipulations of API-600.

9. HYDROSTATIC SHELL TEST



Valve ends shall be closed off and the obturator placed in the partially open position during the test. If specified by the purchaser, the method of closing the ends shall permit the transmission of the full-pressure Force acting on the end blanks to the valve body. If present, external relief valves shall be removed and their connections plugged. The test pressure shall be 1.5 or more times the pressure rating determined in accordance with 7.2 for Material at 38 °C (100 °F). The duration shall not be less than that of specified in API 600 / API 598. No visible leakage is permitted during the hydrostatic shell test.

10. HYDROSTATIC SEAT TEST

The test pressure for all seat tests shall not be less than 1.1 times the pressure rating determined in accordance API-600 for material at 38 °C (100 °F). The test duration & pressure ratings shall be in accordance with API 600 / API 598.

Leakage for soft-seated valves shall comply with the requirements of API-598. API-598 states for shell and backseat tests, no visible leakage is permitted. If the fluid is a liquid, there shall be no visible evidence of drops or wetting of the external surfaces (no visible leakage through the body, body liner, if any, and body-to-bonnet joint and no structural damage).

If the test fluid is air or gas, no leakage shall be revealed by the established detection method. For both the low-pressure closure test and the high- pressure closure test,

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visual evidence of leakage through the disk, behind the seat rings, or past the shaft seals (of valves that have this feature) is not permitted (Plastic deformation of resilient seats and seals is not considered structural damage).

11. ANTI-STATIC TESTING

The electrical resistance between the obturator and the Valve body and between the stem / shaft and the valve body shall be measured using a direct-current power source not exceeding 12 V. The resistance shall be Measured on dry valves before pressure testing and shall not exceed 10 ohm 5 % of the valves of each size & type shall be tested for Anti-static testing.

12. TORQUE / THRUST FUNCTIONAL TESTING

The maximum torque or thrust required to Operate gate or plug valves shall be measured at the pressure specified by the purchaser for critical valve operations. Thrust and torque testing shall be performed following hydrostatic shell testing and, if specified, prior to any low-pressure gas seat testing. The measured torque or thrust results shall be recorded and shall not exceed the manufacturer's documented breakaway torque / thrust. 1 % of the valves (min.1) of each size & type shall be tested.

13. DRIVE TRAIN STRENGTH TEST

The test torque shall be the greater of



- a. Twice the manufacturer's predicted break-away torque / thrust, or
- b. Twice the measured break-away torque / thrust.

The test torque shall be applied with obturator blocked for a minimum time of 1 min.

Note:

For gate valves, the thrust can be tensile or compressive, whichever is the most stringent condition.

The test shall not cause any permanent visible deformation of the drive train.

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1% of the valves (min.1) of each size & type shall be tested for Drive train strength test.

8.0 DOCUMENTATION

8.1 Vendor shall arrange to retain documents in his works as stipulated in API-600.

8.2 In addition, Vendor shall arrange to submit following documents along with the consignment:



8.2.1 Detailed dimensioned, cross section drawing of each size of valve being offered with parts / material lists, weight etc. as manufacturer's / API / Other relevant applicable standard.

8.2.2 Drawings for valves with accessories like gear operator, extension bonnet, extended stems with stands bypass etc. giving major salient dimensions.

8.2.3 Material test certificates (physical property, chemical composition & heat treatment report, radiography etc.) of the pressure containing parts & for the other parts shall also be furnished for verification during inspection.

8.2.4 Following supplementary documentation is required to be provided in line with API-600 as given below:

- a. NDE records;
- b. Hardness test report on pressure-containing parts;
- c. Heat treatment certification records (e. g. charts);
- d. Pressure test / Leak test (Valve seat & Fugitive) & other test reports, (Including pressure, test Duration, test medium and Acceptance Criteria);
- e. Coating / plating certification;
- f. Fire type-test certificates;
- g. Material inspection certificates in accordance with ISO 10474 or EN 10204, as applicable (the purchaser shall specify the type of Certification, and for which parts, when ordering);
- h. Design verification by certification body / agency;

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- i. Installation, operation and maintenance instructions / manuals;



8.2.5 All the documents as listed above shall be submitted in 3 copies.

9.0 MARKING

1. Valve markings, symbols, abbreviations etc. shall be in accordance with API-600. Vendor's name, valve rating, material designation, nominal size, direction of flow (if any) etc. as specified in API-600 shall be integral on the body.
2. Body / cover / closure stamping shall be performed using a low-stress die- stamp, rounded "V" or Dot Face type. Each valve shall be provided with an austenitic stainless-steel nameplate securely affixed and so located that it is easily accessible. The marking on the nameplate shall be visually legible.

10.0 PAINTING / PREPARATION FOR SHIPMENT

1. All non-corrosion-resistant valves shall be coated externally in accordance with manufacturer's standards, unless otherwise agreed.
2. Carbon steel valves shall be painted with two coats of inorganic zinc silicate primer (Min. 35 micron per coat).
3. Flange faces, weld bevel ends and exposed stems shall not be coated.
4. Parts and equipment that have bare metallic surfaces shall be protected with a rust preventative that can provide protection at temperatures up to 65 °C.
5. After testing, all valves shall be drained and dried thoroughly. Valve shall be suitably painted as above / vendor's standard approved specifications.
6. Flanged, threaded and welding ends shall be blanked off to protect the gasket surfaces, welding ends and valve internals during shipment. Machined surfaces shall be protected against corrosion during shipment and storage.

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7. Valves shall be protected from rust, corrosion and any mechanical damage during Transportation, shipment and storage. The packages shall be sea-worthy when required to be transported by ships.
8. Rust preventive on machined surfaces shall be easily removable with a Petroleum solvent.
9. Each end of valves shall be protected with the following materials:

Flange Face:	Wood, Wood fiber, Metal or Plastic cover.
Beveled End:	Wood, Wood fiber, Metal or Plastic cover.
SW & SCRD End:	Plastic Cap.



The ends shall be securely attached to the valve ends by bolting, steel straps, Steel clips or suitable friction-locking devices. The design of the covers shall Prevent the valves from being installed unless the covers have been removed.

A warning label shall be attached to the protective cover with instructions to remove, prior to installation, material from inside the valve that secures or supports the disc.

Each valve shall be wrapped in a polythene / impervious sheet & packed separately in wooden crate, properly secured to prevent damage during transportation. Each box shall be clearly marked, valve size, location of dispatch, Purchaser company's name, UP marking & - fragile ll warning.

The valve boxes shall be put in a large container for transportation as per manufacturer's standards separately for each Purchaser Company & location of dispatch.



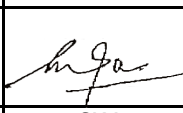
10. Gate valve shall be shipped with the gate in the fully closed position.
11. Valves of size DN 200 (NPS 8) and larger shall be provided with lifting points, unless otherwise agreed. The manufacturer shall verify suitability of the lifting points.



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Client:	Delhi Aviation Fuel Facility Private Limited		
Location:	DELHI	Document No.:	DAFFPL-SGC-MR-0005

ANNEXURE - B

TECHNICAL SPECIFICATIONS FOR ELECTRIC ACTUATOR

						
0	26-10-2021	For Tender	DR	AP	SKJ	
Rev	Date	Description	Prepared	Reviewed	Approved	Client Review

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SPECIFICATIONS FOR ELECTRICAL ACTUATOR

1.0 SCOPE

1.1 The scope of this specification covers design, manufacture, assembly, shop testing and supply of electrical MOTOR OPERATED GATE VALVE actuators intended for fully / partially opening and closing valve duty



2.0 CODES AND STANDARDS

2.1 The equipment shall comply with the requirements of latest revision of the following standards Issued by BIS (Bureau of Indian Standards) unless specified otherwise:

IS 9334	Electric Motor Operated Actuators.
IS 13947 (Parts - 1, 3, 4 & 5)	Low Voltage Switchgear.
IS 4722	Rotating electrical machines - Specification.
IS 325	Three-phase Induction Motors.
IS 2148	Flameproof enclosures for electrical apparatus.
IS 4691	Degrees of protection provided by enclosure for rotating electrical machinery.
EN 50018	Electrical Apparatus for Potentially Explosive Atmosphere [EEx(d)].
IEC 60079	Electrical apparatus to explosive gas atmosphere.
IEC 60529	Classification of degrees of protection provided by Enclosures (IP codes).
IEC 60801	Electromagnetic compatibility of Industrial-Process management and control equipment.
IEC 61508	Functional Safety of Electrical/Electronic/ Programmable Electronic Safety Related Systems.
IEC 61511	Functional safety - Safety Instrumented Systems for the Process Industry Sector.

2.2 In case of imported equipment's, the standards of the country of origin are acceptable, if these standards are equivalent to or more stringent than EN / IEC / Indian standards.

2.3 The equipment shall also conform to the provisions of Indian Electricity Rules and other statutory regulations currently in force in the country.

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2.4 In case Indian standards are not available for any equipment, standards issued by IEC / BS / VDE / IEEE / NEMA or equivalent agency shall be applicable.

2.5 In case of any contradiction between various referred standards / data sheets and statutory regulations, the following order of decreasing priority shall govern:

- Statutory regulations
- Data sheets & Job specifications
- Codes and standards
- Manufacturer's standards

3.0 GENERAL REQUIREMENTS



3.1 The offered equipment shall be brand new with state-of-the-art technology and a proven field track record. No prototype equipment shall be offered.

3.2 Vendor shall ensure availability of spare parts and maintenance support services for the offered equipment for at least 15 years from the date of supply.



3.3 The vendor shall be responsible for design, engineering and manufacturing of the complete actuator to fully meet the intent and requirements of this specification and attached data sheets.

4.0 TECHNICAL SPECIFICATIONS



Each MOV actuator shall include the motor, actuator unit, gears, position indicators, limit switches, hand wheel, electrical starter and controls, terminal box etc. as a self-contained unit. The actuator shall be sized to provide adequate torque and / or thrust to ensure the complete intended travel of the valve under the worst operating and electrical power supply conditions.

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Sr. No.	Functionality	Minimum Requirements	
1	Scope	Designing, manufacturing, testing & supply of electric non-intrusive actuator for Valve operation.	
2	Code & Standards	API RP 500, IS 5572, IEC 529, BS 5501 or equivalent IEC / IS Standard, latest editions, except where modified and / or supplemented by these specifications.	
3	Selection of the Actuator and Gear Box make	<p>Bidder to select and freeze Actuator out of the approved makes as indicated in the detailed specification.</p> <p>It shall be responsibility of the valve manufacturer to select suitable actuator models meeting functional requirements of valves and operation timing of valves specified by owner.</p> <p>Bidder to note that the torque produced by actuator with / without gear box shall have safety margin of at least 25% w.r.t. torque required for the valve.</p> <p>For Quarter Turn valves with operating torque requirement of up to 900 Nm (including safety margin) the Actuator should be with direct drive quarter turn output. For higher torque requirements, combination of Multiturn Actuators with Quarter Turn Gearboxes is also acceptable.</p> <p>The actuator gearing shall be totally enclosed in an oil-filled / grease filled gear case suitable for operation at any angle.</p>	
4	Valve Type, Size & Service	GATE Valve, 16" (400 NB), Jet A1 (ATF)	
5	Site Conditions	Ambient Temperature Range	-5 °C to + 65 °C
		Maximum Operating Pressure	18.5 Kg/cm ² (150 #)
		Humidity	98% (max)
		Hazardous Area Classification	Hazardous area Zone 1, Group IIB / IIC
6	General requirements	<p>a. The Actuator shall be suitable for operation in tropical climate under the specified site conditions.</p> <p>b. Actuator should be designed to avoid inadvertent access to live parts.</p> <p>c. Model & wiring diagram shall be suitable for required controls and operation of MOV.</p> <p>d. The Actuator shall be new and specifically produced against the order.</p> <p>e. Cards (having electronic components) offered by Actuator manufacturer shall be suitable for working up to 65 °C.</p>	
7	Enclosure	Flameproof & weatherproof enclosure: EEx(d) IIB T4 & IP-67 or better.	

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Sr. No.	Functionality	Minimum Requirements
		CCOE / PESO Approved.
8	Wiring & Terminals	<ul style="list-style-type: none"> All the wirings for remote control / feedback shall be brought on a terminal block marked "For remote wiring". Minimum 10% spare terminals shall be provided for future interlocks. Internal wiring for power and control circuits shall be appropriately sized for MOV actuator rating. Each wire shall be identified at both ends using flameproof & fireproof PVC ferrules. Further unused terminals shall be plugged with flameproof and fireproof glands.
9	Sealing	<ul style="list-style-type: none"> Double Sealing (flameproof) in Terminal compartments to be provided. The motor and all other internal electrical elements of the actuator shall be protected from ingress of moisture and dust when the terminal cover is removed for site cabling.
10	Electric Motor	<ul style="list-style-type: none"> Motor designed for High Torque, Low Inertia suitable for valve operation housed in a totally enclosed non-ventilating flameproof and weatherproof enclosure. Class 'F' insulation with temp rise limited to class 'B'. Suitable for 3 Phase 415 V +/- 10% variation AC at 50 Hz frequency with +/- 4% variation. Motor rotor shall preferably be of die-cast Aluminum and if brazed, shall be free from phosphorous or better.
11	Auxiliary Contact Rating	The auxiliary switch contacts shall have a minimum rating of 2 A, 24 V DC Non-inductive.
12	Torque & Travel Limit Settings	<ul style="list-style-type: none"> "Open" and "Close" Torque and travel limit settings with adjustable selection for correct valve travel. Two torque settings, one each at each end of travel. Four limit settings, two at each end of travel positions and two at intermediate positions for interlocking / indication. Torque & Travel limit switches shall cut-off the power supply to the motor at the end of preset limit of valve travel.
13	Torque And Travel Limit Sensing	<ul style="list-style-type: none"> Position and Torque measurement shall be through two completely independent sensors & mechanisms. Failure of either device will therefore be independent of the other.
14	Position Measurement	<ul style="list-style-type: none"> Absolute encoder type position sensor to be provided i.e., it should always display correct position irrespective of whether the position has been changed by hand wheel operation during power cut off or changed due to motorized actuator.
15	Torque Measurement	<ul style="list-style-type: none"> Measurement of torque shall be from direct measurement of force at the output of the actuator. Methods of determining torque-using data derived from the motor such as motor speed, current, flux etc. are also

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Sr. No.	Functionality	Minimum Requirements
		acceptable subject to the precision and reliability of the torque measurement being better or at least equivalent to direct torque measurement principle.
16	Interface Between Valve and Actuator	The actuator shall be furnished with a drive bushing easily detachable for machining to suit the valve stem or gearbox input shaft. Thrust bearings shall be sealed for life and the base shall be capable of withstanding at least twice the rated thrust of the actuator.
17	Integral Reversing Starter Switch	Mechanically or electrically interlocked contactors / solid state reversing starters shall be provided for motor operation in forward & reverse direction, to be fed from an internal control supply.
18	Protection Facilities	<p>Auto Phase Correction. A 3-phase discriminator circuit to automatically apply correction shall be provided for motor to run in correct direction irrespective of supply phase rotation / sequence.</p> <p>Single Phase Protection. If one or more phases are lost, the control circuit shall prevent energization of the contactors / starters. However, in presence of an ESD signal & valve already in motion prior to the loss of only one phase, the control should ignore loss of phase and allow the valve to travel.</p> <p>Jammed Valve Protection. An additional protection of motor shall be provided by automatically de-energizing motor contactor / starter, when end-of-travel limit switches / contacts fail to reset within eight to nine seconds.</p> <p>Anti-Hammer Protection. Anti-hammer protection shall be provided to allow increased operation time for the period of hydraulic shocks. Torque switch hammering shall be prevented from occurring even in mid travel. During presence of a continuous control signal, the anti-hammer circuit shall inhibit re-energization of the contactor until control signal is removed.</p> <p>Instantaneous Reversal Protection. A timer circuit shall be provided to reduce motor current surges on signal reversal by delay in energization of the contactor / starter.</p> <p>Motor Thermal Protection. Thermal Overload protection shall be provided through thermostat embedded in the motor winding.</p>
19	Remote Communication Protocol	All the offered actuators shall have inbuilt communication card over and above potential free contacts. The communication protocol shall be Internationally accepted OPEN protocol type (MODBUS RS-485).

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Sr. No.	Functionality	Minimum Requirements
		<p>The actuator shall be compatible for direct communication with Master Control Station over loop / Line topology with communication redundancy i.e., in case of any fault in the cable, the actuator (field units) shall continue to communicate & operate with the master control Station as per the redundancy topology followed.</p> <p>Other communication protocols of actuators like Profibus / Current protocol etc. are also acceptable for those locations where supply of Master Control Station is part of this tender (if any) and the protocol shall be same as that of the Master Control Station.</p> <p>Bidder can also supply MOV / actuator with communication protocol other than MODBUS RS-485, however suitable converter / FCU to be provided so that the same can be connected with our existing MCS / PLC over MODBUS RS-485 subject to that there is no degradation of the performance of the actuator and the cost of converter / FCU has to be borne by the successful bidder.</p> <p>Each field unit / actuator shall be addressable from master control station through unique address - code. All the field settable / adjustable parameters of MOV actuator shall be settable locally from actuator and remotely from master control station.</p> <p>Full diagnostics feature of MOV shall be available on master control station.</p>
20	Control Features	<p>Local Control (From Integral Push Button Station).</p> <ul style="list-style-type: none"> • OPEN, CLOSE & STOP operations through push buttons shall be provided on the actuator. • Local / Remote selector switch. <p>Remote Control (From Control Room).</p> <ul style="list-style-type: none"> • It shall have provision to control the actuator through remote 'OPEN', 'CLOSE' & ESD command from control room over two wires communications and through hardwired commands. • Necessary Power supply for indication lamp of Local Push button Station shall be sourced from the Actuator itself. <p>Reversal Operation.</p> <ul style="list-style-type: none"> • It shall be possible to reverse direction of travel from actuator without the necessity of going through a "STOP" operation in either "LOCAL" or "REMOTE" mode.

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Sr. No.	Functionality	Minimum Requirements
21	Controls & Feedbacks Over Two-wire Control at Control Room	<p>Following minimum feedbacks & controls shall be extended over two-wire communication links:</p> <p>Feedback:</p> <ul style="list-style-type: none"> • Valve opened. • Valve closed. • Actuator fault. • Cable fault. • Continuous Valve Position. • Monitor Relay Trip. • Thermostat trip. • Local stop selected. • Local Control selected. • Valve obstructed. • Valve jammed. • Internal battery low (if provided). • Diagnostic display. <p>Control:</p> <ul style="list-style-type: none"> • Open fully. • Close fully. • Emergency Shut Down. • Partial Stroke Test (Momentary opening and closing of the Valve (5% or as per OEM Standard) to check the healthiness of the valve). It should be integral / inbuilt feature of the actuator.
22	Controls & Feedbacks (Potential Free Contacts) for Remote Operation through Control Room and Push Button Station Outside Dyke Wall.	<p>Following minimum Controls & feedbacks potential free contacts shall be available for Remote operation of valves through Control Room and Push Button Station outside Dyke wall:</p> <p>Feedback:</p> <ul style="list-style-type: none"> • Common status contact (Monitors Relay trip feedback). <ul style="list-style-type: none"> - Loss of one or more power supply phases. - Loss of Control Circuit supply. - Thermostat trip due to internal temperature rise of motor. - Selector switch set to OFF. • Local / Remote selector switch positions. • Valve opened (Open limit contact). • Valve Closed (Close limit contact).

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Sr. No.	Functionality	Minimum Requirements
		<ul style="list-style-type: none"> • Internal battery low (if provided). <p>Control:</p> <ul style="list-style-type: none"> • Valve Open command. • Valve Close Command. • ESD.
23	Hand Wheel for Manual Operation	<ul style="list-style-type: none"> • The interlocking system within the actuator shall ensure that the motor operation always override hand wheel manual operation. • A positive declutching mechanism shall be provided to accomplish change over from motor operation to manual operation. • Whenever the motor is started the hand wheel mechanism shall be completely disengaged and manual operation shall remain disabled as long as the actuator is being electrically driven. • The hand wheel shall have a reduction gear between the actuator output and the hand wheel to reduce the manual effort at hand wheel.
24	Paint	<ul style="list-style-type: none"> • Actuated valve assembly surface shall be thoroughly cleaned, freed from rust and grease and applied with sufficient coats of corrosion resistant paint. Surface preparation shall be carried out by shot blasting to SP-6 in accordance with "Steel Structures Painting Council - Visual Standard SSPC-VIS-1". • Manufacturer shall indicate the type of corrosion resistant paint used in the drawing submitted for approval.
25	Conduit Entries for Cables in Actuator	<ul style="list-style-type: none"> • Actuator shall be supplied with suitable cable entries of: (4 nos. ¾" NPT and 2 nos. 1" NPT) OR 4 nos. 1" NPT OR (2 No 1" NPT and 1 nos. 1¼" NPT). • Cable entry shall be from bottom / side, away from the valve stem after assembly on valve.
26	FLP & WP Cable Glands, Reducers & Plugs	<ul style="list-style-type: none"> • Required FLP & WP cable glands, reducers & plugs shall be supplied as standard supply without additional cost with each actuator & JB if supplied. • Spare cable entries at Actuator and JB shall be plugged with FLP & WP plugs. • All above mentioned items shall be fire safe with suitable ratings/approvals.

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Sr. No.	Functionality	Minimum Requirements
27	Terminal Screws, Washers and O-rings	Two set of Power & Control terminal screws, washers and O-ring shall be supplied as standard supply without additional cost with each actuator.
28	Marking	<p>Equipment Details:</p> <ul style="list-style-type: none"> • Name plate marking on the actuator (indicative). • Name of the manufacture. • Model No. • Actuator Serial No. • Wiring Diagram No. • Motor kW rating, motor time rating, motor supply voltage, nominal motor phase current, RPM. • Auxiliary switch rating. • Maximum torque setting. • Actuator enclosure type, lubricant type. • Year of manufacturing. <p>Hazardous area application details.</p> <ul style="list-style-type: none"> • Testing agency (CIMER or equivalent). • Test certificate number with date. • Statutory approval number with date. • Approval agency (PESO / CCE / DGMS or equivalent) • BIS license number with date. • Applicable Gas group and Temperature class etc. <p>The nameplate shall be riveted / fixed with screws and not pasted. In case any of the standard details listed above are embossed on the enclosures, the same need not be repeated.</p>
29	Actuator Make & Country of Origin	<ul style="list-style-type: none"> • BIFFI. • EIM CONTROLS. • LIMITORQUE. • AUMA. • ROTORK. • ROTEX

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5.0 INSPECTION, TESTING AND ACCEPTANCE



- 5.1 Actuator shall be tested / checked by the actuator manufacturer before sending to the works of valve manufacturer with inspection / test reports.
- 5.2 Gear Box, if provided, shall be tested / checked at its manufacturer's works before sending to the works of valve manufacturer with inspection / test reports mentioning make of Gear Box & Gear box ratio.
- 5.3 The valve mounted actuator with / without Gear Box, spares, configuration tool, FLP & WP JB, cable glands, reducers & plugs (as applicable) shall be subjected to inspection / verification as per approved QAP by an inspector who may be the representative of owner or an agency authorized by the owner at the works of valve manufacturer.
- 5.4 During the course of manufacturing, the purchaser or his authorized representative shall be free to visit the works and assess the progress of work and the manufacturer shall render him all possible assistance to do so.
- 5.5 Following routine and acceptance tests shall be carried out at the manufacturer's works under his supervision and at his own cost for all the actuators in line with QAP approved by the owners.

ROUTINE TEST:

Functional and calibration test for torque and limit switches.



ACCEPTANCE TESTS:

- Response time test
- Variation of supply voltage
- Variation of frequency
- Tests for motor (As per relevant IS / IEC)
- Test on output shaft. (Output RPM)

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FOLLOWING TESTS SHALL BE PROVIDED PRIOR TO SHIPPING:

- Actuator operation, Cycle (open-close) each valve with its actuator at least five times for proper actuator operation. Verify that valve-position coincides with position indicators.
 - Opening-closing position
 - Actuator output speedy Open-Close time
 - Actuator travel setting
 - Operational torque test as per API 600 / API 6D. The maximum measured torque shall be less than 75 % of the design torque specified by the valve manufacturer for actuator sizing.
 - Testing of multiple actuators connected in loop / line topology connected to Master Control Station, hardwired using potential free contacts of actuator and push buttons station / PLC to meet all the functional requirements as stated in the specification at Actuator vendor's premises in India / Valve Manufacturer's premises.
- 5.6 Two weeks' notice shall be given to Owner for witnessing the final testing of the complete assembly to ensure satisfactory operation of the MOV actuators. Type test certificates shall be furnished with bids. Final acceptance of MOVs at site shall be subject to successful testing of the actuators with the valves.
- 5.7 Type test certificates, original drawings referred in certificates and statutory approval certificates and BIS license, wherever applicable, shall be shown to the inspection agency on demand. The certificates and BIS license must be valid at the time of dispatch.
- 5.8 Test certificates of bought-out components shall be shown to the inspection agency on demand.

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6.0 DOCUMENTATION

All documents shall be in English language.

I. Documentation with Offer:

Bidder shall submit the following documents along with offer:

- 1) General arrangement/assembly drawings showing all features and relative positions and sizes of vents, drains, actuator, painting, coating and other external parts together with overall dimensions along with weight & Opening - Closing Time.
- 2) Sectional drawing showing major parts with reference numbers and material specification. In particular, a blow-up drawing of disc seat assembly shall be furnished to comply the requirements of this specification.
- 3) Sizing calculations for selected actuator, Torque curves for the actuator along with break torque and maximum allowable stem torque. In addition, sizing criteria and torque calculations shall also be submitted for actuated valves.
- 4) As a mandatory requirement, the Bidder shall firm up the Make & Model of Actuator, other accessories like limit switches etc. at the time of submission of the Bid & same shall not be changed after placement of Purchase Order on the successful Bidder. The Bidder shall submit de-codification sheet for each type and size for valve and actuator along with torque value.
- 5) Descriptive Technical Catalogues of the Manufacturer.
- 6) Details of support foot, including dimensions and distance from valve center line to bottom of support foot.
- 7) Manufacturer, who intends bidding, must submit at bid stage, certificate and report for successful type tests for valves in accordance with API 600 as applicable in valve Data Sheet. Failure to comply with this requirement shall be a cause of rejection of the offer.
- 8) Details of manufacturing/testing facilities available with the Bidder and rated production capacity.
- 9) Detailed Bar Chart showing different stages of design, manufacture, testing and dispatch schedules.
- 10) Deviations from specifications and attachments, if any.
- 11) QAP format duly filled and signed.

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- 12) Confirmation regarding the Codes & Standards specified for different works.
- 13) List of recommended spares and accessories for valve and actuators for Start Up & Commissioning.
- 14) List of recommended spares & accessories for actuators for 02 (Two) years of normal operation.
- 15) Guarantee for performance, workmanship & materials of construction.
- 16) Recommended Actuators model with all calculations & data for Hand wheel operated gate valves.

7.0 DOCUMENTATION AFTER PLACEMENT OF PURCHASE ORDER:



- 1) Within three weeks of placement of order, the Manufacturer shall submit six copies of, but not limited to the following drawings/documents for Owner's / Owner Representative approval:
 - Sizing of actuator and selected Model for approval.
 - Detailed sectional arrangement drawing showing all parts with reference numbers and material specifications.
 - Hazardous Area Classification for valves, accessories, electrical power consumption for each type and size of valve for approval.
 - Assembly drawings with overall dimensions and features.
 - Installation requirements.
 - QA Plan for approval.

Very Important:

Manufacturing of valves shall commence **Only & Only** after approval of the above documents by Owner / Owner Representative. Once approval has been given by Owner, any change in design, material and method of manufacture shall be notified by the manufacturer to Owner, whose approval in writing of all changes, shall be obtained before the valve is manufactured.

Manufacturer shall submit one reproducible and six of the following:

- 1) Test certificates as specified in this specification. Inspection certificates & test reports shall be supplied for all mandatory tests as per applicable Codes.
- 2) Manual for installation, erection, maintenance and operating instructions

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including a list of recommended spares of the valves.

- 3) Details of corrosion resistant paints to be applied on the valves.
- 4) Materials test and analysis certificate (Physical properties, Chemical composition and Heat Treatment Report) shall be furnished for the valves to be supplied. Material test certificate for other parts shall also be furnished during inspection.
- 5) Other relevant information/drawing/document as required by Owner.
- 6) All the above documents shall be in addition to those mentioned in individual specification of valves.

7.1 AS BUILT DOCUMENTATION AND DRAWINGS:



Contractor must provide Six (6) sets of final documentation shall be submitted in hard copy and soft copy of the following.

- 7.1.1 General arrangement / assembly drawings showing all features and relative positions and sizes of vents, drains, actuator, painting, coating and other external parts together with overall dimensions, sectional drawings showing major parts with reference numbers and material specifications, also in particular, a blow-up drawing of Disc-seat assembly.
- 7.1.2 Sizing of actuator and selected model with torque details for valves and actuators.
- 7.1.3 Overall general arrangement and dimensional cross-sectional drawings of valves, showing parts list, material list, weight etc.
- 7.1.4 Actuator make, Model, details of selection based on torque, electrical power consumption for each type and size of valve.
- 7.1.5 Inspection certificates and test reports shall be supplied for all mandatory test as the applicable Codes.
- 7.1.6 Operation and Maintenance Manual.
- 7.1.7 Installation requirements.
- 7.1.8 Calibration certificates, Technical Catalogues for valves, actuators and all accessories mounted on valve.

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8.0 ERECTION & COMMISSIONING (SUPPORTS)



1. Vendor shall depute his Commissioning Engineer to the location/(s) of the Owner as covered in Purchase Order for commissioning supervision of valves and the actuators & stabilization of valves & actuator operations. Vendor to note that commissioning assistance shall be provided for each valve as installation of valves will not be together envisaged in construction activity. The commissioning charges shall be paid prorata basis for each valve as per the amount which bidder has quoted in tender. The quoted rate shall include all to & fro travelling charges, lodging & boarding charges any other incidental charges. The representative shall ensure that the valve is commissioned successfully. Tools, tackles, consumables and manpower etc. required at site for this purpose shall be arranged by the manufacturer/vendor/bidder. All expenses for site services shall be borne by the manufacturer /vendor.
2. Manufacturer /vendor shall provide warranty for the performance of valves for 18 months from the date of delivery at Owner's premises or 12 months from the date of installation & commissioning, whichever is later.
3. Manufacturer/Vendor shall develop adequate service support in India to provide technical after sales service in India within 48 hours of intimation to Manufacturer/Vendor to attend the fault in valves installed in India. Such Service Support shall be guaranteed by Manufacturer/Vendor for supply of parts, service for 10 years for all valves supplied by way of a written Memorandum of Understanding.

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Client:	Delhi Aviation Fuel Facility Private Limited		
Location:	DELHI	Document No.:	DAFFPL-SGC-MR-0005

ANNEXURE - C
DATASHEET FOR ELECTRIC ACTUATOR

						
0	30-10-2021	For Tender	DR	AP	SKJ	
Rev	Date	Description	Prepared	Reviewed	Approved	Client Review

	Delhi Aviation Fuel Facility Private Limited			
Project Name	Providing Design Consultancy Services for Laying of Additional Receipt Header inside Fuel Farm Facility of DAFFPL.			
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DATASHEET FOR ELECTRIC ACTUATORS

1. SITE CONDITIONS



Sr. No.	Description	Minimum Requirements
1.1	Altitude	Less than 1000 m Above MSL.
1.2	Design ambient temperature	-5 deg. To +65 deg. C.
1.3	Humidity	Max. 100 %.
1.4	MOV Tag Nos.	Will be intimated after award of contract.

2. SYSTEM CONDITIONS

Sr. No.	Description	Minimum Requirements
2.1	Supply Voltage	415 V+ 10%, 3-phase AC for MOV.
2.2	Supply Frequency	50 Hz + 3%.
2.3	System Earthing	Solidly Earthed.

3. OPERATING ENVIRONMENT



Sr. No.	Description	Minimum Requirements
3.1	Area Classification	Zone 1
3.2	Gas Group	IIA / IIB
3.3	Temperature Class	T4
3.4	Construction	Flameproof Ex(d)
3.5	Ingress Protection	IP67 or better.
3.6	Painting	Epoxy base.
3.7	Whether "K-Mass" type or equivalent fire proofing required	No
3.7.1	For MOV Tag Nos.	Not Applicable.
3.7.2	With fireproof rating	Not Applicable.
3.8	Valve Duty, Mode of Control and Devices for Control	
a	Fully open and fully closed	Yes.
b	Partially open and partially closed	Yes.
c	Control Requirement	Local & Remote.
d	Local / Remote / Off Selector Switch on Actuator	Required.
e	Compatibility for Interfacing with MCS / PLC	Required.
f	Setting Adjustable Parameters of Actuator	From field & remote thru Master control station.
g	Continuous Position Indication	
i	Local	Required.
ii	Remote	Required in control room thru' Master Control Station.
h	Intermediate Travel Limit Switch	Required.
3.9	Potentials Free Contacts for Indication on Remote Panel and	

	Delhi Aviation Fuel Facility Private Limited			
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Sr. No.	Description	Minimum Requirements
	Other Interlocks and for Remote Commands	
a	For Valve Open Position	Required.
b	For Valve Closed Position	Required.
c	For Remote Indication or Position of Local / Remote Selector Switch	Required.
d	For availability of MOV Actuator Remote Operation (Contact from Monitoring Relay)	Required.
e	For Indicating Valve Position in Progress	Optional.
f	DCS / PLC interface for Remote Control & Indication	Remote Indication & Control required.
g	Hardwired Commands to Actuator (OPEN, CLOSE, STOP, ESD)	Required (from PLC / Local PB Station outside dyke).
h	Others as Specified in the Specification	Required.
3.10	Time of Operation	
a	Opening	Bidder to specify.
b	Closing	Bidder to specify.
3.11	FLP Double Compression Glands & Plugs (For unused Entries)	To be supplied with the Actuator
3.12	Test and Approval Certificates for Flame Proof Actuators	
a	For Indigenous make MOV Actuators	Refer technical specifications of Electrical MOV Actuators
b	For Imported make MOV Actuators	Refer technical specifications of Electrical MOV Actuators
c	Submission of Type Test Certificates -	Yes




Notes:



1. N.A. denotes "Not Applicable".
2. Area Classification Zone, Gas group and Temperature class indicated above refer to IS / IFC standards.
3. Two separate earthing bosses shall be provided in each actuator.
4. The offered actuators (if supplied without Master Control Station for any particular location) must be compatible for integration with our existing Master Control Station (over MODBUS RS-485).
5. The purchaser shall provide single point power supply to the actuator. Any other control supply voltage required of its internal use shall be internally derived by the manufacturer within the actuator.
6. The actuator shall have provision to select inching / non inching type operation. (i.e., it can be configuration in the actuator)
7. Provision shall be there in the actuator to disable ESD port of the actuator.

 DAFFPL (A JV of IOCL, BPCL and DIAL)	Delhi Aviation Fuel Facility Private Limited			 GLOBAL CONSULTANTS
Project Name	Providing Design Consultancy Services for Laying of Additional Receipt Header inside Fuel Farm Facility of DAFFPL.			
Document No.	DAFFPL-SGC-MR-0005	Rev.	0	

Project Name:	Providing Design Consultancy Services for Laying of Additional Receipt Header inside Fuel Farm Facility of DAFFPL.		
Client:	Delhi Aviation Fuel Facility Private Limited		
Location:	DELHI	Document No.:	DAFFPL-SGC-MR-0005

ANNEXURE - D
DATASHEET FOR 10” AND 16” GATE VALVE

						
0	30-10-2021	For Tender	DR	AP	SKJ	
Rev	Date	Description	Prepared	Reviewed	Approved	Client Review

	Delhi Aviation Fuel Facility Private Limited			
Project Name	Providing Design Consultancy Services for Laying of Additional Receipt Header inside Fuel Farm Facility of DAFFPL.			
Document No.	DAFFPL-SGC-MR-0005	Rev.	0	

Datasheet for 10” and 16” Gate Valve

1	Rating	150#
2	Stem	Outside Screw & Yoke rising stem and
3	Ends	X Flanged R F, Drilled to ANSI B.16.5
4	Bonnet	Bolted
5	Wedge	Solid
6	Seat	Body: Renewable
7	Operation	Hand Wheel
8	Body	ASTM A-216 GR WCB
9	Wedge	WCB + 13% Chrome Facing
10	Spindle	A ISI 410
11	Body Seat	13% CR Facing
12	Back Seat	AISI 410
13	Gasket	SS304 Spiral Wound with PTF
14	Bolts and Studs	A 193 Gr. B7
15	Nuts	A 191 Gr. 2H
16	Shell Test (Hydro)	31.0 kg/cm ² (g)
17	Seat Test (Hydro)	22.0 kg/cm ² (g)
18	Seat Test Pneumatic	7 kg/cm ² (g)
19	Back Sheet Test (Hydro)	22.0 kg/cm ² (g)
20	Other Requirement	Manufacturing Standard: API - 600 / BS5352 Testing Standard: API - 598 / BS 5146

Sr. No.	Size	Quantity	Type	Tag No
1	10” (250 NB)	10 Nos	Hand Wheel Operated Gate Valve	Post Award of Order
2	16” (400 NB)	6 Nos	Motor Operated Gate Valve	Post Award of Order

Notes:

1. End to End Dimensions should be as per ANSI B 16.10
2. Valve Shall be of Fire Safe Design
3. Tenderer should indicate the no of Cycle of opening and closing that the valve can withstand satisfactory performance (Min. one lac cycles)
4. Valves Maintenance to be possible without removing valve body from pipe
5. Valves should confirm to leakage class VI / Bubble tight shutoff
6. Valves are being used on Aircraft Turbine Fuel service



DELHI AVIATION FUEL FACILITY PRIVATE LIMITED

ANNEXURE II – 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 III – DECLARATION SHEET

Date:

DECLARATION

We, M/s _____ hereby, unconditionally accept all terms & conditions of TENDER NO.: DAFFPL/FF/2021-22/05 (JOB: TENDER FOR SUPPLY of Motor Operated Gate Valves & Hand wheel Operated Gate Valves) 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-IV

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-V

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- VI

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 VII

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 VIII

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	2018-2019	
2	2019-2020	
3	2020-2021	

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
2018-2019		
2019-2020		
2020-2021		

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
2018-2019		
2019-2020		
2020-2021		

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

(F) GST Registration Details:

GST Registration no	
---------------------	--

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

Name of Firm: _____

Spares List for MOV along with LPBS					
S. No.	Item Name	Item Description	Part Number	Quantity	Unit Price on door delivery basis excluding taxes (Rs.)
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Sign & Stamp of Bidder



Delhi Aviation Fuel Facility Private Limited



PRICE BID

Tender No: DAFFPL/FF/2021-22/05

Name of the Work: SUPPLY of Motor Operated Gate Valves & Hand wheel Operated Gate Valves

Name of Firm:

S No	Particulars	Qty	Units	Unit Rate (Rs.)	Total Amount (Rs.)	Tax %	Tax Amount	Total Amount including taxes (Rs.)
1	MOTOR OPERATED GATE VALVE - SIZE 16" (400 NB): Gate valve, Metal to Metal seated, Anti-static design, anti-blow-out stem. Electric Actuator with Integral Starter suitable for Gate valve, 2 wire remote control communicating to Existing Master Station. Supply of Local Push Button station shall be in the scope of bidder.	6	Nos		0.00		0.00	0.00
2	Commissioning Assistance of Motor Operated Gate Valve	6	Nos		0.00		0.00	0.00
3	HAND WHEEL OPERATED GATE VALVE - SIZE 10" (250 NB): Gate valve, Designed and Manufactured to API 600 standard (latest edition) for materials, construction and dimensions, Face to face and end to end as per API 600. Rising stem, Non rising Hand wheel.	10	Nos		0.00		0.00	0.00
Total Amount including Taxes								0.00

Total Amount including taxes in words(Rs.)

Note: All Yellow colour highlighted cells shall be filled by the bidder.