Oil India Limited
(A Govt. of India Enterprise)
P.O. Duliajan – 786602, Assam

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Tender No. & Date: **SDG 3062P17/07 dated: 21.11.2016**

Tender Fee : **INR 30,000.00** OR **USD 500.00**
Bid Security Amount : **INR 468,400.00** **OR** **USD 6,888.00**

Bidding Type : **SINGLE STAGE TWO BID SYSTEM**

Period of Sale of Bid Documents : **From 28.11.2016 to 04.01.2017 ; 15:30 Hrs(IST)**

Bid Closing on : **11.01.2017 (at 11.00 Hrs. IST)**

Bid Opening on : **11.01.2017(at14.00 Hrs. IST)**

Bid Validity : Bid Should be valid for 120 days from bid closing date.
Bid Bond Validity : Bid Bond Should be valid up to **08.08.2017**

Performance Guarantee :**Applicable @ 10% of Order value**
Integrity Pact : **Applicable**

OIL INDIA LIMITED invites Global Tenders for items detailed below:

Item No.	MATERIAL DESCRIPTION	QTY.	UOM
10	**50 mm (2") NB x 150 Class, Short Pattern, RF Fanged** API 6D Monogrammed Plug Valve, Fire Safe to API 6FA, Manual Wrench-operated along with a pair of companion Forged Flanges with requisite quantity High Tensile Stud Nuts & gaskets as per Data-Sheet, Annexure-A and Scope of Supply, Annexure-F.	18	Nos.
20	**50 mm (2") NB x 300 Class, Short Pattern, RF Fanged** API 6D Monogrammed Plug Valve, Fire Safe to API 6FA, Manual Wrench-operated along with a pair of companion Forged Flanges with requisite quantity High Tensile Stud Nuts & gaskets as per Data-Sheet, Annexure-A and Scope of Supply, Annexure-F.	30	Nos.
30	**50 mm (2") NB x 900 Class, Short Pattern, RTJ Fanged** API 6D Monogrammed Plug Valve, Fire Safe to API 6FA, Manual Wrench-operated along with a pair of companion Forged Flanges with requisite quantity High Tensile Stud Nuts & gaskets as per Data-Sheet, Annexure-A and Scope of Supply, Annexure-F.	24	Nos.
40	**50 mm (2") NB x 1500 Class, Short Pattern, RTJ Fanged** API 6D Monogrammed Plug Valve, Fire Safe to API 6FA, Manual Wrench-operated along with a pair of companion Forged Flanges with requisite quantity High Tensile Stud Nuts & gaskets as per Data-Sheet, Annexure-A and Scope of Supply, Annexure-F.	36	Nos.

50	**50 mm (2") NB x 2500 Class, Short Pattern, RTJ Fanged** API 6D Monogrammed Plug Valve, Fire Safe to API 6FA, Manual Gear-operated along with a pair of companion Forged Flanges with requisite quantity High Tensile Stud Nuts & gaskets as per Data-Sheet, Annexure-A and Scope of Supply, Annexure-F.	24	Nos.
60	**100 mm (4") NB x 150 Class, Short Pattern, RF Fanged** API 6D Monogrammed Plug Valve, Fire Safe to API 6FA, Manual Wrench-operated along with a pair of companion Forged Flanges with requisite quantity High Tensile Stud Nuts & gaskets as per Data-Sheet, Annexure-A and Scope of Supply, Annexure-F.	12	Nos.
70	**100 mm (4") NB x 300 Class, Short Pattern, RF Fanged** API 6D Monogrammed Plug Valve, Fire Safe to API 6FA, Manual Wrench-operated along with a pair of companion Forged Flanges with requisite quantity High Tensile Stud Nuts & gaskets as per Data-Sheet, Annexure-A and Scope of Supply, Annexure-F.	36	Nos.
80	**100 mm (4") NB x 900 Class, Regular Pattern, RTJ Fanged** API 6D Monogrammed Plug Valve, Fire Safe to API 6FA, Manual Gear-operated along with a pair of companion Forged Flanges with requisite quantity High Tensile Stud Nuts & gaskets as per Data-Sheet, Annexure-A and Scope of Supply, Annexure-F.	24	Nos.
90	**100 mm (4") NB x 1500 Class, Regular Pattern, RTJ Fanged** API 6D Monogrammed Plug Valve, Fire Safe to API 6FA, Manual Gear-operated along with a pair of companion Forged Flanges with requisite quantity High Tensile Stud Nuts & gaskets as per Data-Sheet, Annexure-A and Scope of Supply, Annexure-F.	18	Nos.
100	**100 mm (4") NB x 2500 Class, Regular Pattern, RTJ Fanged** API 6D Monogrammed Plug Valve, Fire Safe to API 6FA, Manual Gear-operated along with a pair of companion Forged Flanges with requisite quantity High Tensile Stud Nuts & gaskets as per Data-Sheet, Annexure-A and Scope of Supply, Annexure-F.	18	Nos.

(A) GENERAL NOTES FOR E- TENDER:

1.0 The tender will be governed by "General Terms & Conditions" for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders) including Amendments & Addendum to "General Terms & Conditions" for e-Procurement.

2.0 Technical and Commercial Check list is furnished vide Annexure – B. Please ensure that the check list is properly filled up and uploaded along with Technical bid.

3.0 Please note that all tender forms and supporting documents are to be submitted through OIL's e-Procurement site only except following documents which are to be submitted manually in sealed envelope super scribed with tender no. and due date to The Head Materials, Materials Department, Oil India Limited, Duliajan- 786602, Assam on or before the Bid Closing Date and Time mentioned in the Tender.

a) **Original Bid Security along with duplicate copies of Bid Security.**

b) Any other document which have been specified to be submitted in original.

4.0The tender is invited under SINGLE STAGE-TWO BID SYSTEM. The bidder has to submit both the "TECHNO-COMMERCIAL UNPRICED BID" and "PRICED BID" through electronic form in the OIL's e-Tender portal within the Bid Closing Date and Time stipulated in the e-Tender. The "Techno-commercial Unpriced Bid" shall contain all technical and commercial details except the prices which shall be kept blank. Details of prices as per Bid format / Commercial bid to be uploaded as attachment in the Attachment Tab "Notes and Attachments".

Any offer not complying with above submission procedure will be rejected as per Bid Rejection Criteria mentioned in the tender.

5.0In Technical Bid opening, only Technical Rfx will be opened. Therefore, the bidder should ensure that "TECHNO-COMMERCIAL UNPRICED BID should contain details as mentioned in the technical specifications as well as BEC/ BRC and upload the same in the Technical RFx Response-> User - > Technical Bid. No price should be given in above Technical Rfx otherwise the offer will be rejected.Please go through the help document in details before uploading the document and ensure uploading of technical bid in the Technical RFx Response-> User - > Technical Bid only. The "PRICE BID" must contain the price schedule and the bidder's commercial terms and conditions. Details of prices as per Bid format / Commercial bid can be uploaded as Attachment under the attachment option under "Notes & Attachments"

6.0 PRICED BIDS OF ONLY THOSE BIDDERS WILL BE OPENED WHOSE OFFERS ARE FOUND TO BE TECHNO-COMMERCIALLY ACCEPTABLE.

7.0 All the Bids must be Digitally Signed using "Class 3" digital certificate *(e-commerce application)* only as per Indian IT Act obtained from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India. The bid signed using other than "Class 3" digital certificate, will be liable for rejection.

8.0 Bidders are requested to examine all instructions, forms, terms and specifications in the bid. Failure to furnish all information required as per the bid or submission of offers not substantially responsive to the bid in every respect will be at the bidders risk and may result in the rejection of its offer without seeking any clarifications.

9.0 The Integrity Pact is applicable against this tender .OIL shall be entering into an Integrity Pact with the bidders as per format enclosed vide Annexure XII of the tender document. This Integrity Pact proforma has been duly signed digitally by OIL's competent signatory. The proforma has to be returned by the bidder (along with the technical bid) duly signed (digitally) by the same signatory who signed the bid, i.e., who is duly authorized to sign the bid. Uploading the Integrity Pact with digital signature will be construed that all pages of the Integrity Pact has been signed by the bidder's authorized signatory who sign the Bid. **If any bidder refuses to sign Integrity Pact or declines to submit Integrity Pact with the offer, their bid shall be rejected straightway.**

OIL's Independent External Monitor at present are as under:

SHRI RAJIV MATHUR, IPS (Retd.),
Former Director (IB) Govt. of India
e-Mail ID : rajivmathur23@gmail.com

&

SHRI SATYANANDA MISHRA, IAS (RETD.)
Former Chief Information Commissioner of India &
Ex-Secretary, DOPT, Govt. Of India
e-Mail ID : satyanandamishra@hotmail.com

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(B) Special Notes:

1. **Compliance with Specification:** The Vendor shall be completely responsible for the design, materials, manufacture & fabrication, testing, inspection, preparation for shipment and transport of the ordered valves strictly in accordance with the NIT Specifications and all attachment thereto. All the valves shall be provided with EN 10204-3.2 certificates.

2. **Reference Documents:**
   i) All valves shall be manufactured and supplied in accordance with the American Petroleum Institute (API) Specification 6D, Twenty Fourth Edition, August, 2014, including Errata & Addendum* with additions and modifications as indicated in the tender specification.
   (*includes Errata 1 dated October 2014, Errata 2 dated December 2014, Errata 3 dated February 2015, Errata 4 dated June 2015, Errata 5 dated July 2015, Errata 6 dated September 2015, and Addendum 1 dated March 2015)
   ii) Reference to the latest edition of the other applicable Codes, Standards and Specifications :

ASME B 16.5	Pipe flanges and flanged fittings
ASME B 16.34	Valves – Flanged, threaded and welding end
ASTM A 370	Standard test methods and definitions for mechanical testing of steel products
ASTM B 733	Autocatalytic nickel phosphorous coating on metals
API 6FA	Fire test for valves
MSS-SP-6	Standard finishes for contact faces of pipe flanges and connecting-end flanges of valves and fittings

3. In case of conflict between the requirements of this tender, API 6D and the Codes, Standards and Specifications referred above, the requirements of this Technical Specification shall govern. Order of precedence shall be as follows:
   i) Data Sheets
   ii) This Technical Specification
   iii) API 6D Specification
   iv) Other Referred Codes & Standards
   v) Manufacturer's Standard
4. Bidder must mention exact torque figure (maximum torque) required to operate the offered Plug Valves, items-wise at maximum operating pressure, in tabular format. The same will be approved by OIL for use during Inspection as one of the reference documents.
   (The torque figures for a valve at maximum operating pressure when operated frequently and the break-out torque required for a valve that is subject to long static periods)
5. Bidders must specify the Maximum Allowable operating pressures for valves at (-) 28 deg C, 35 dec C and 65 deg C with the applicable rating tables for material groups in ASME B16.34.
6. Offer shall be complete as per Scope of Supply, Annexure-F, otherwise Bid will be considered incomplete. The bidders to confirm and submit the signed and sealed Annexure-F: Scope of supply for API 6D Plug Valves along with the Technical bid.
7. Hydraulic and Hand-Operated High Pressure Grease Guns shall be complete with Flexible Hose Assembly, Button-Head Connector, 5,000 PSIG Pressure Gauge etc.. Details of Hydraulic and Hand-Operated High Pressure Grease Guns along with Technical Bulletin to be submitted along with bid.
8. Bidder must provide details for Sealant & Stem Packing Compound suitable to service fluid for trouble free operation of Plug Valves along with Size, diameter of Stick/Cartridges compatible to the offered valves. Sealants & Stem Packing Compound shall be selected for Valve Service Temperature, (-) 28 deg C to 65 deg C.
9. Bidder shall also provide details for Valve FLUSH compatible with Sealant & Stem Packing to clean out hardened sealants and lubricants that contain solids and or fillers to free the Valve. Valve FLUSH should be of formulation using non-petroleum oils. Valve Flush should not contain acid, caustic, solvent, or solids and should be safe, biodegradable & non-hazardous. Valve Flush should work on the principal of pressure and penetration, cleaning out hardened sealants and lubricants that contain solids and/or fillers.
10. All Gaskets shall be of ASME B16.20 to match Flanges to ASME B16.5 & MOC as following:
    i) For RF Flanges (Spiral-Wound): Graphite/Asbestos filler with outer centering ring and Inner compression ring of SS304/316.

ii) For RTJ Flange (Ring-Joint): Type 'R' Ring Gasket, Soft Iron having Maximum Hardness of 90 Brinell (Rockwell "B" Scale-56)

11. Manufacturer's Test Certificates to be furnished for Gaskets along with the supply as following:
    i) For Spiral-Wound:
        a) Manufacturer's test certificate for filler material and spiral material as per the relevant material specifications.
        b) Manufacturer's test certificate for raw materials and tests for compressibility/ seal-ability & recovery as per the relevant material specifications.
    ii) For Ring-Joint: Chemical composition and hardness in the form of test reports on samples.
12. All valves must have API monogram die-stamping.
13. All valves of similar size, type and pressure rating shall have same casting pattern, bonnet design, height and overall dimensions.
14. Successful Party shall carry out servicing of supplied valves up to a period of 3 years. Frequency of the servicing will be quarterly and on call basis. Without servicing declaration, the quotations will not be considered for evaluation. Servicing engineer/technician will visit sites quarterly or within 7 days in case on call and shall carryout related service jobs as advised pertaining to the valves. The said service is applicable over & above the product warranty period. Vendors will have to quote separately for such servicing for any charges towards it including spares, sealant etc. required.
15. Quantity of Individual item may be increased or decrease at the time of placement of order.
16. The Lowest acceptable bidder whose product has not been field proven in OIL, may be considered for trial/development order for smaller quantity.
17. In case the bidder/supplier is an authorized Dealer / Distributor / Agent, all the documents, Drawings, Data-sheets etc. shall be signed and stamped by Valve Manufacturer. Also, all the correspondence made by an authorized Dealer / Distributor / Agent will have to be endorsed by Valve Manufacturer.

18. **Design & Construction:**
    i) The Manufacturer shall have a valid license to use API 6D monogram for manufacture of Plug Valves.
    ii) Valve shall have an inherent feature using line pressure to ensure that the line pressure cannot cause taper locking of the plug/ plug movement into taper i.e. valves shall be of pressure balanced design.
    iii) Cover shall be bolted to the body and screwed connections are not acceptable.
    iv) Soft seats to achieve a seal between plug and body are not permitted.
    v) All valves shall have provisions for secondary sealant injection under full line pressure for seat and stem seals. Sealant injection points shall be provided with a ball type check valve or needle valve to replace the sealant injection fitting under full line pressure.
    vi) Valves shall have vent and drain connections as per API 6D.
    vii) Valve design shall ensure repair of gland packing under full line pressure.
    viii) Valve ends shall be flanged as indicated in Valve Data Sheet. Flanges of the flanged end cast/ forged body valves shall be integrally cast / forged with the body of valve. Face-to-face/ end-to-end dimensions shall conform to API 6D.
    ix) Flanged end shall have dimensions as per ASME B16.5. Flange face shall be either raised face or ring joint type as indicated in Valve Data Sheet. Flange face finish shall be serrated. In case of RTJ flanges, the groove hardness shall be minimum 140 BHN.
    x) Valves shall be provided with position indicator and stops at the fully open and fully closed positions.
    xi) Valves shall have locking devices to be locked either in full open or full close position. Locking devices shall be permanently attached to the valve operator and shall not interfere with operation of the valve.
    xii) Valves shall be of fire safe design as per API 6FA.
    xiii) Operating Devices:
        a) Valves shall be wrench operated or gear operated as indicated Data Sheet. Each wrench-operated valve shall be supplied with wrench and gear-operated valve with Wheel. Valve design shall be such that damage due to malfunctioning of the operator will only occur in the operator gear train and damaged parts can be replaced without the bonnet being removed.
        b) Operating device shall be designed for easy operation of valve under maximum differential pressure corresponding to the valve rating.
        c) For manual operation of all valves, the diameter of the hand wheel or the length of operating lever shall be such that under the maximum differential pressure, the total force required to operate the valve does not exceed 350 N. Manufacturer shall also indicate the number of turns of hand wheel (in case of gear operator), required to operate the valve from full open to full close position.
        d) Direction of operation of hand wheel or wrench shall be in clock-wise direction while closing the valve. Hand wheels shall not have protruding spokes.
        e) Gear operators shall have a self-locking provision and shall be fully encased in waterproof/ dustproof/ weatherproof/ splash proof enclosure and shall be filled with suitable grease.

xiv) Repair by welding is not permitted for forged body valves. However repair by welding as per ASME B16.34 is permitted for cast body valves. Repair shall be carried out before any heat treatment of casting is done. Repair welding procedure qualification shall also include impact test and hardness test and shall meet the requirements.

xv) Valve stem shall be capable of withstanding the maximum operating torque required to operate the valve against the maximum differential pressure corresponding to applicable class rating.

19. **Inspection & Tests**

A) The Manufacturer shall perform all inspection and tests as per the requirements of this specification and the relevant codes, prior to shipment at his works. Such inspection and tests shall be, but not limited to, the following:

a) All valves shall be visually inspected.

b) Dimensional check shall be carried out as per the OIL approved drawings.

c) Chemical composition and mechanical properties shall be checked as per relevant material standards and this specification, for each heat of steel used.

d) Non-destructive examination of individual valve material and component consisting of but not limited to castings, forgings, plates and assembly welds shall be carried out by the Manufacturer.

e) Valves castings shall be radiographically examined at the cover and body portion, seat location, flanged body ends. Procedure and acceptance criteria shall be as per ASME B16.34. The extent of radiography shall be as follows:

ANSI Class 150 -	All Sizes	-	100%
ANSI Class 300 -	All Sizes	-	100%
ANSI Class 900 -	All Sizes	-	100%
ANSI Class 1500-	All Sizes	-	100%
ANSI Class 2500-	All Sizes	-	100%

For radiography the acceptance limits shall be as per ANSI B16.34, Annexure – B. Sensitivity shall be as per ASME sec V.

f) All castings shall be wet magnetic particle inspected 100% of the internal surfaces. Method and acceptance shall comply with ASME B16.34.

g) Manufacturer shall ensure that the requisite forgings / castings are sourced from foundries as approved by M/s Lloyds M/s LRIS or M/s EIL. Documentary evidence in this regard shall be submitted along with the bid.

h) DP or MPT shall be done on all casting. Procedure and acceptance shall be as per ANSI B-16.34.

i) Valve forgings shall be examined by ultrasonic method. Inspection procedure and acceptance criteria shall be as per Annexure E of ASME B16.34.

j) Areas which, in TPIA's Inspector's opinion, cannot be inspected by radiographic methods shall be checked by ultrasonic or magnetic particle methods and acceptance criteria shall be as per ASME Sec-VIII, Division I, Appendix 12 and Appendix 6 respectively.

k) All valves shall be tested in compliance with the requirements of API 6D. Hydrostatic shell testing shall ensure that the whole of the shell is subjected to the test pressure. If necessary, the empty shell shall be pressure tested prior to assembly of the plug. The drain, vent and sealant lines shall be either included in the hydrostatic shell test or tested independently. No leakage is permissible during hydrostatic testing.

l) Only kerosene or water with suitable inhibitor to prevent corrosion shall be used for hydraulic testing. After hydraulic testing, valves shall be dried and internal & external parts shall be thoroughly greased and end flanges shall be capped with suitable protectors.

m) A supplementary air seat test as per API 6D shall be carried out for all valves. No leakage is allowed. Test pressure shall be held for at least 15 minutes.

n) Manufacturer who intends for bidding must submit at the bid stage, certificate and report for successful fire safe tests in accordance with API 6FA, as applicable in Valve Data Sheet. Failure to comply with the requirement shall be a cause of rejection of the offer.

o) As a pre-qualification, Fire Safe Test as per API 6FA shall be carried on Plug Valve/s. The test shall be witnessed & certified by third party inspection agency. The vendor has to submit test certificate for the particular design of the valve offered. Manufacturer will have to carry out this test on offered Valves if the earlier Fire Tested Valve's Design & MOC are different than Tender Specification.

p) Valve shall be subjected to Operational Torque Test as per supplementary test requirement of API 6D under hydraulic pressure equal to the maximum differential pressure corresponding to the valve rating. The maximum handwheel force shall not exceed 350 N.

B) OIL reserves the right to perform stage wise inspection and witness tests as indicated in Note-20 prior to shipment. Manufacturer shall give reasonable access and facilities required for inspection to OIL Inspection Engineer.

C) OIL reserves the right to request additional testing at any time to confirm or further investigate a suspected fault. If the suspected fault is confirmed, the cost incurred shall be to Manufacturer's account.

D) In no case shall any action of OIL or his representative, TPIA relieve the Manufacturer of his responsibility for

material, design, quality or operation of valves.

E) Inspection and tests performed/ witnessed by the OIL's TPIA & Inspection Engineer shall in no way relieve the Manufacturer's obligation to perform the required inspection and tests.

20. **Scope of Inspection by OIL:**

Apart from inspection by TPIA, OIL reserves the right to carry out the inspection by OIL's Engineer as set out and specified in the codes and particular documents forming this Tender Specification. OIL's Engineer will witness the following inspection (minimum) at Valve Manufacturer works. At least 15 days advance notice will be required for deputing OIL's Engineer for inspection:

a) Assembly of minimum one valve, which will include assembly of valve's components like Plug, Bottom Cover with Metal Compressing Diaphragms, Body Cover, Stem, Equalizer Ring, Weather-seal, Plug Loading Screw etc.
b) Check Protected Pressure Balancing features
c) Check Manufacturer's facility for Case Hardening & Antifriction agent treatment.
d) Hydrostatic Shell Testing of minimum one valve
e) Supplementary air seat test of minimum one valve
f) Operational Torque Test of minimum one valve in each Size & ANSI Class
g) Any other Functional tests relevant to the quality assurance

21. **Test Certificates:**

Manufacturer shall submit the following certificates & documents along with supply of Valves:

i) Mill test certificates relevant to the chemical analysis and mechanical properties of the materials used for valve construction as per the relevant standards.
ii) TPI reviewed Radiograph Films and Reports of all the valves for casting material.
iii) Test certificates on hydrostatic and pneumatic test complete with records of timing and pressure of each test.
iv) Test reports on radiographic and ultrasonic inspection.
v) Test reports on operation of valves for Operational Torque as per supplementary test requirement of API 6D under hydraulic pressure equal to the maximum differential pressure corresponding to the valve rating. The maximum hand wheel force shall not exceed 350 N.
vi) All other test reports and certificates as required by API 6D and this specification.
vii) Manufacturer shall enclose the original release note issued by TPI along with the despatch documents.
viii) Vendor shall also enclose all material test certificates, NDT and HT records duly certified by TPI with despatch documents. (As per applicable codes and standards)
ix) Mill test certificates and other test certificates for companion Forged Flanges and High Tensile Stud Nuts.
x) Manufacturer shall submit with each order of valves a compliance certificate in their letter head confirming that the valves have been manufactured and tested in accordance with the standards stipulated, including the clauses mentioned herein and have met all the requirements. The compliance certificate shall contain the following information:
    a) Certificate number & date
    b) Product description & sizes
    c) A table specifying valve serial number, Tag number, wear travel margin, thickness of body / bonnet for the said lot including hydrostatic test pressure values for body, seat, back seat & Air test pressure for seat leak which each valve has satisfactorily withstood.
    d) A table clearly specifying the material used for the manufacture of various valve components.
    e) A table specifying the suppliers, heat /cast nos., TC nos. of sourced materials for the valve components.

Note: All documents covered above shall also form part of despatch documents.
The certificates shall be valid only when signed by TPIA Inspector. Only those valves which have been certified by Purchaser's Inspector shall be dispatched from Manufacture's works.

22. **Third Party Inspection:** All the valves are required to be inspected by one of OIL approved Third Party Inspection Agency (TPIA). Vendor shall appoint anyone of the following TPIA for inspection purpose after approval by OIL:

a) M/s. Lloyd's Register of Shipping Industrial
b) M/s. Indian Register of Shipping

c) M/s Tuboscope Vetco,
d) M/s. Bureau Varitas Industrial Services (India) Pvt. Ltd.
e) M/s. Rites Ltd.
f) M/s. Det Norske Veritas

Bidders are to quote separately the charges towards inspection by a third party which will be considered for evaluation. The scope of third party inspection are given below vide Note No. 5. Third party will ascertain that materials are as per order specification and Approved QAP. However, any bid received without the TPI charges, will be loaded with the maximum TPI charges received against this tender. In the event, the party emerges as the L1 bidder so evaluated, the order shall be placed on them considering TPI charges as included and it will be obligatory on the part of the bidder to accept order without any further reservation.

23. **Scope of Third Party Inspection:**

a) TPIA Inspector shall perform inspection and witness test on all valves as indicated in the approved Quality Assurance Plan (QAP).
b) The hydrostatic testing and cyclic opening and closing of the valves with the operator shall be witnessed by TPIA Inspector.
c) To review Mill test certificates relevant to the chemical analysis and mechanical properties of the materials used for the valve construction as per the relevant standards.
d) To review heat number wise foundry certificate of casting in order to ensure that the materials used are as per purchase order.
e) To ensure that valve body casting and other cast components of the valves are procured from foundries approved by M/s Lloyds M/s LRIS or M/s EIL.
f) To ensure that casting of body and other components of valves are of radiographic quality. Radiography of 1(one) no. valve randomly selected against each item shall be witnessed by Inspection Agency and it shall be documented properly. Moreover, TPIA shall review radiographic films of all the valves.
g) To ensure that proper technique and procedure as per relevant API standard and purchase order are followed by the manufacturer.
h) To witness hydraulic and pneumatic test for the body and plug of valves as applicable in the relevant standard.
i) To document and issue all inspection certificate.
j) Verification of valves for the safe design as per API 6FA.
k) To ensure that different component of the valve conform to order and API specifications fully.
l) To ensure that the all the valves have marking as per API 6D and PO Annexure for Valve Marking.
m) To witness Torque Test for at least one valve against each item as per OIL approved Vendor's Data and also to review the Certificate of Torque Test conducted by the Vendor for all the valves under the PO.
n) To review Mill test certificates and other test certificates for companion Forged Flanges and High Tensile Stud Nuts showing full conformance with applicable ASTM standard.

24. **Materials & Test Procedures**

i) Materials for major components of the valves are indicated in the Valve Data Sheet. Other components shall be as per Manufacturer's standard which will be subject to approval by OIL.
ii) Charpy V- Notch test on each heat of base material shall be conducted as per API 6D, for all pressure containing parts such as body, bonnet, end flanges as well as the bolting material for pressure containing parts.
iii) The hardness of base material of body and principal parts of the valve such as plug, stem, etc., shall not exceed 22 RC.
iv) Plug and Stem for valves shall have Electroless Nickel Plating (ENP) as specified in Valve Data Sheet. The hardness of plating shall be minimum 50 RC. Manufacturer shall ensure that the adhesive strength of plating is sufficient so as to prevent peeling of plating during operation of the valve.
v) All process-wetted parts, metallic and non-metallic, shall be suitable for the fluids and service specified.

25. **Painting, Marking & Shipment**

i) Valve 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".
ii) Manufacturer shall indicate the type of corrosion resistant paint used, in the drawings submitted for approval.

iii) All valves shall be marked as per API 6D. The units of marking shall be metric except Nominal Diameter which shall be in inches. Marking shall be done by die-stamping on the bonnet or on the housing. Besides API monogram, each valve shall bear permanent marks as per Annexure-D.

iv) Valve ends shall be suitably protected to avoid any damage during transit. All threaded and machined surfaces subject to corrosion shall be well protected by a coat of grease or other suitable material. All valves shall be provided with suitable protectors, for flange faces, securely attached to the valves.

v) All sealant lines and other cavities of the valves shall be filled with sealant before shipment.

vi) Packaging and shipping instructions shall be as per API 6D.

vii) On packages, following shall be marked legibly with suitable marking ink.
   a) OIL's Order Number
   b) Manufacturer's Name
   c) Valve Sizes and Ratings
   d) Tag Numbers
   e) Serial Numbers

26. **SPARES & ACCESSORIES**

i) Manufacturer shall recommend and quote separately the spares for valves required for commissioning and two years of normal operation. **List of such spares without price shall be indicated along with technical bid** . List with price shall be quoted along with price bid separately.

ii) Manufacturer shall recommend and quote unit price separately for the special tools required for maintenance of valves.

27. **DOCUMENTATION**

i) At the time of bidding, the bidder shall submit the following documents:
   a) Copy of valid API 6D certificate
   b) General arrangement/ assembly drawings showing all features and relative positions & sizes of vents, drains, gear box & other external parts together with overall dimensions.
   c) Sectional Drawings with detailed dimensions showing all parts with reference numbers, Materials Specification.
   d) Cross Sectional Drawing along with exploded view of the parts not visible in the main cross-section drawing showing Materials Specification of all the parts.
   e) Exploded Sectional Isometric view of offered valves
   f) Datasheet for offered valves
   g) Reference list of similar plug valves manufactured and supplied in last five years, indicating all relevant details including project, year, client, location, size rating, service, etc.
   h) Descriptive technical catalogues of the Manufacturer.
   i) Details of support foot, including dimensions and distance from valve centre line to bottom of support foot.
   j) Bidder's Quality Assurance Plan as per Annexure-E.
   k) Point wise compliance of NIT requirements. Deviations if any, to this Technical specification and valve data-sheet enclosed with enquiry, shall clearly be mentioned in the deviation sheet attached as Annexure-G. If deviation sheet is not filled up it will be understood that there is no deviation to the OIL's requirements and the vendor fulfils all stipulated condition. No further correspondence in this regard shall be entertained after placement of order.
   l) Technical catalogue / literature of the valves.
   m) Testing and quality control procedures / QAP.

   IMPORTANT

   The drawings to be submitted along with the bid shall be in total compliance with the requirement of technical specification and data-sheets of the valves with no exception & deviation.

ii) Within two weeks of placement of detailed order, the manufacturer shall submit six copies of, but not limited to, the following drawings, documents and specifications for approval:
   a) Design drawings and relevant calculations for pressure containing parts and other principle parts.
   b) Detailed sectional arrangement drawing showing all parts with reference numbers and materials specification.

c) Assembly drawings with overall dimensions & clearances required and showing all features. Drawing shall also indicate the numbers of turns of hand wheel (in case of gear operator) required for operating the valve from full open to full close position and the painting scheme.
d) Heat treatment, testing and quality control procedures.
e) Details of corrosion resistant paint to be applied on the valves.
f) Design calculation for pressure containing parts.

Note: Manufacturing of the valves shall commence only after approval of the above documents. Once approval has been given by OIL, any change in design, material and method of manufacture shall be notified to the OIL, whose approval in writing for all changes shall be obtained before the valves are manufactured.

iii) Within 30 days from the approval date, Manufacturer shall submit one reproducible and six copies of the approved drawings, documents and specification as listed above.
iv) Prior to shipment, Manufacturer shall submit one reproducible and six copies of following:
   a) Test certificates as listed in Note-6 of this specification.
   b) Manual for installation, erection instructions, maintenance and operation instructions, including a list of recommended spares for the valves.
v) All documents shall be in English Language.

28. **GUARANTEE**

i) The items shall be brand new, unused & of prime quality Manufacturer shall guarantee (in the event of an order) that the valves and fittings supplied are free from all defects & fault in material, workmanship & manufacture and comply with the requirements in this specification and in the Purchase Order. This clause shall be valid for 12 (twelve) months from the date of commissioning of valves.
ii) Manufacturer is bound to replace or repair all valve parts which should result defective due to inadequate engineering or to the quality of materials and machining.
iii) If valve defect or malfunctioning cannot be eliminated, Manufacturer shall replace the valve without delay.
iv) Any defect occurring during the period of Guarantee shall be attended to by making all necessary modifications and repair of defective parts free of charge.
v) All expenses shall be to Manufacturer's account.

ANNEXURE-A

Data Sheet for API 6D Monogrammed Plug Valves

(This Technical Data Sheet supersedes all the data mentioned anywhere in the NIT for the respective Item)

1. Design Standard: API 6D (IS0 14313)
2. Valve Service and Application: Onshore for Oil & Gas Well Fluid (Mixture 0f Sweet Natural Gas, Formation Water, Hydrocarbon Condensate & Formation Solid Sand Particles)
3. Valve Size: 2" to 4" NB ; Quantity: as mentioned in the NIT
4. Valve Pressure Rating: ANSI 150 to 2500 Class
5. Valve Features:
    a) Lubricated-Protected Pressure Balancing* type Plug,
    b) Metal-to-Metal Seated, Bolted Bottom Cover with Metal Compressing Diaphragms,
    c) Anti Blow-out Stem with online Emergency Packing Injection facility,
    d) Adjustable Gland with fugitive emission proof graphite packing
    e) Weather-seal to protect the stem, gland and packing from hostile environments
    f) Double Ball Checks to maintain sealant pressure in the enclosed grooving system in the plug and body to prevent back-pressure on the sealant chamber.
    g) Factory-set Plug Loading Screw for seat tightness and low torque operability
    h) Stem Packing Injector provision to renew stem packing and allow full in-line maintenance
    i) Sealant Injector provision to maintain bubble tight shut-off for the life of the valve
6. End Connection Details: RF (ANSI 150 & 300 Class) and RTJ (above ANSI 300 Class) Type Flanged ends as per ASME B16.5
7. Face-to-face dimensions: API 6D
8. Valve Pattern Type: Short Pattern for ANSI 150 & 300 Class, Regular Pattern for ANSI 900 Class & above)
9. Valve Operation: Wrench / Manual Gear-operated as per NIT.
10. Valve Component's Material Specification (equivalent or superior grade MOC may also be acceptable)
    a) BODY: ASTM A216 Gr WCB or WCC / ASTM A105
    b) PLUG : ASTM A216 Gr WCB or WCC / ASTM A105. The Plug shall be Case Hardened & treated with Antifriction agent based on PTFE to reduce friction between plug and body and to have consistent low operating torque while maintaining a true metal-to-metal contact with greater wear resistance and resistance to seizure.
    c) BODY COVER: ASTM A216 WCB or WCC / ASTM A105
    d) STEM: AISI 4140 + 76 micron ENP**. The Stem shall also be treated with Antifriction agent based on PTFE for the objectives stated in 10 (b), PLUG.
    e) STEM SEAL : Injectable Stem Sealing compound + Graphite Filament
    f) Equalizer Ring: AISI 4140 + 76 micron ENP** / AISI 410
    g) Diaphragms: AISI 316 or equivalent SS Material
    h) STUD BOLTS: ASTM A193 B7
    i) NUTS: ASTM A194 2H
    j) Nameplate: Stainless Steel
11. Valve design Service Temperature: (-) 28 deg C to 65 deg C
12. Inspection & Testing: API 6D
13. Fire Test: API 6FA
14. Lifting lugs: Required for 900 Class & above.
15. Foot support: Required for 900 Class & above.

Note: *Protected Pressure Balancing feature is required as service fluid may contain Solid Sand Particle produced from oil and gas Wells. This is to increase reliability in service by ensuring the balancing holes are not exposed to the foreign particles contained in the handling fluid.

** ENP in accordance with ASTM B733 Std with a minimum 0.003" (76 Microns) thickness.

Annexure-B

TECHNICAL SPECIFICATION FOR PLUG VALVES, PR NO-1618487

(This Technical Specification along with Annexure-A supersedes all the data mentioned anywhere in the NIT for the respective Item)

ITEM SL NO-10

50 mm (2") NB x 150 Class, Short Pattern, RF Fanged
API 6D Monogrammed Plug Valve, Fire Safe to API 6FA, Manual Wrench-operated along with a pair of companion Forged Flanges with requisite quantity High Tensile Stud Nuts & gaskets as per Data-Sheet, Annexure-A and Scope of Supply, Annexure-F.

ITEM SL NO-20

50 mm (2") NB x 300 Class, Short Pattern, RF Fanged
API 6D Monogrammed Plug Valve, Fire Safe to API 6FA, Manual Wrench-operated along with a pair of companion Forged Flanges with requisite quantity High Tensile Stud Nuts & gaskets as per Data-Sheet, Annexure-A and Scope of Supply, Annexure-F.

ITEM SL NO-30

50 mm (2") NB x 900 Class, Short Pattern, RTJ Fanged
API 6D Monogrammed Plug Valve, Fire Safe to API 6FA, Manual Wrench-operated along with a pair of companion Forged Flanges with requisite quantity High Tensile Stud Nuts & gaskets as per Data-Sheet, Annexure-A and Scope of Supply, Annexure-F.

ITEM SL NO-40

50 mm (2") NB x 1500 Class, Short Pattern, RTJ Fanged
API 6D Monogrammed Plug Valve, Fire Safe to API 6FA, Manual Wrench-operated along with a pair of companion Forged Flanges with requisite quantity High Tensile Stud Nuts & gaskets as per Data-Sheet, Annexure-A and Scope of Supply, Annexure-F.

ITEM SL NO-50

50 mm (2") NB x 2500 Class, Short Pattern, RTJ Fanged
API 6D Monogrammed Plug Valve, Fire Safe to API 6FA, Manual Gear-operated along with a pair of companion Forged Flanges with requisite quantity High Tensile Stud Nuts & gaskets as per Data-Sheet, Annexure-A and Scope of Supply, Annexure-F.

ITEM SL NO-60

100 mm (4") NB x 150 Class, Short Pattern, RF Fanged
API 6D Monogrammed Plug Valve, Fire Safe to API 6FA, Manual Wrench-operated along with a pair of companion Forged Flanges with requisite quantity High Tensile Stud Nuts & gaskets as per Data-Sheet, Annexure-A and Scope of Supply, Annexure-F.

ITEM SL NO-70

100 mm (4") NB x 300 Class, Short Pattern, RF Fanged
API 6D Monogrammed Plug Valve, Fire Safe to API 6FA, Manual Wrench-operated along with a pair of companion Forged Flanges with requisite quantity High Tensile Stud Nuts & gaskets as per Data-Sheet, Annexure-A and Scope of Supply, Annexure-F.

ITEM SL NO-80

100 mm (4") NB x 900 Class, Regular Pattern, RTJ Fanged

API 6D Monogrammed Plug Valve, Fire Safe to API 6FA, Manual Gear-operated along with a pair of companion Forged Flanges with requisite quantity High Tensile Stud Nuts & gaskets as per Data-Sheet, Annexure-A and Scope of Supply, Annexure-F.

ITEM SL NO-90

100 mm (4") NB x 1500 Class, Regular Pattern, RTJ Fanged

API 6D Monogrammed Plug Valve, Fire Safe to API 6FA, Manual Gear-operated along with a pair of companion Forged Flanges with requisite quantity High Tensile Stud Nuts & gaskets as per Data-Sheet, Annexure-A and Scope of Supply, Annexure-F.

ITEM SL NO-100

100 mm (4") NB x 2500 Class, Regular Pattern, RTJ Fanged

API 6D Monogrammed Plug Valve, Fire Safe to API 6FA, Manual Gear-operated along with a pair of companion Forged Flanges with requisite quantity High Tensile Stud Nuts & gaskets as per Data-Sheet, Annexure-A and Scope of Supply, Annexure-F.

ANNEXURE-C

CHECK LIST

THESE CHECK LISTS MUST BE COMPLETED AND RETURNED WITH YOUR OFFER. PLEASE ENSURE THAT ALL THESE POINTS ARE COVERED IN YOUR OFFER. THESE WILL ENSURE THAT YOUR OFFER IS PROPERLY EVALUATED. BIDDER TO INDICATE RELEVANT PAGE NO. OF THEIR BID TO SUPPORT THE REMARKS / COMPLIANCE IN ALL THE CHECK LISTS.

(A) BEC/BRC Compliance Checklist:

Sl. No.	Clause No. of BEC/BRC	Description	Compliance		Bidder to indicate Relevant Page No. of their Bid to support the remarks / compliance	Vendors' Deviation/ Remarks
			Yes	No		
1.0	**1.1**	The bidder shall be an Original Equipment Manufacturer of API 6D Valves similar to Tender Valve Data Sheet indicated in the tender or shall be an authorized Dealer / Distributor / Agent of an Original Equipment Manufacturer of the tendered item(s) having valid authorization letter in the form of Certificate of Dealership / Distributorship / Agency. The valid Authorized Dealer / Distributor/ Agent must submit Authorization Letter along with Technical Bid from the OEM for bidding against this tender with back-up Warranty, which should be valid as per Tender Warrantee /Guarantee Terms & Conditions.				
2.0	**1.2**	The Original Equipment Manufacturer of the tendered item(s) shall be holding relevant API Certificate(s) with continuous validity for 5 years preceding original bid closing date of the tender, and copy of relevant API Certificate(s) shall be submitted by the Bidder along with the technical bid. For this Bidder should submit the latest Valid API Certificate(s) along with all the past API Certificate(s) to meet the above criterion.				

3.0	**2.1 & 2.2**	In case the bidder is an Original Equipment Manufacturer of the tendered item(s), The bidder shall have experience of successful execution of past supply for minimum 50% quantity (to be rounded off to next higher integer) of each tender item of same or higher size & Pressure Rating of API 6D Valves similar to Tender Valve Data Sheet indicated in the tender, against valid purchase order / contract awarded in last 5 years preceding the original bid closing date of the tender to upstream, midstream and downstream Oil & Gas Industry or Service Provider to an E&P company, either by themselves or through their Dealer / Distributor / Agent for their own (OEM) products.				
4.0	**2.2, 2.2.1 & 2.2.2**	In case the bidder is an authorized Dealer / Distributor / Agent The OEM shall fulfil the experience criteria mentioned in clause 2.1.1 mentioned above. Additionally, the bidder himself shall have experience of successful execution of past supply for minimum 50% quantity (to be rounded off to next higher integer) each tender item of same or higher size & Pressure Rating of API 6D Valves similar to Tender Valve Data Sheet indicated in the tender against valid purchase order / contract awarded in last 5 years preceding the original bid closing date of the tender, to upstream, midstream and downstream Oil & Gas Industry or service provider to an E&P company, provided either from the same OEM or from any other OEM.				
5.0	**2.2.3**	The bid shall be rejected in case of any change of the proposed Original Valve Manufacturer after submission of the bid.				
6.0	**2.3**	The bidder shall submit documents in support of successful execution of past supply experience and of the OEM, as applicable under clause 2.1.1, 2.2.1 & 2.2.2, as below:				

		(i) Copy(ies) of detail Purchase Order(s)/Contract document(s) containing Technical specification, Approved Drawings and Data-sheet etc. and, (ii) Performance Bank Guarantee Release Document / Performance Report from Client of the corresponding executed supply and, (iii) Any one or combination of the following documents , a) Commercial invoice or b) Bill of lading or c) Final inspection release note from Third Party Inspection Agency.				
7.0	**3.0**	Bidder shall provide a copy of certificate for Fire Safe Design as per API 6FA (for API 6D Gate, Ball & Plug Valves) and API 6FD (for API 6D Check Valve) for the quoted valve. As a proof of Fire Test, the following documents approved by Third Party Inspection agency shall be submitted along with the bid for the fire tested valve: a) Fire Test Report b) Valve Cross sectional drawing along with Material of Construction (MOC) of all the components. Fire test certificate is required to be submitted for at least 1 no. Valve similar to tender valve data sheet for size & Pressure Rating as specified in above Specifications to establish that the tested valve is similar to the tendered item.				
8.0	**4.0**	The bidder should categorically confirm in the technical bid that the tendered items will be supplied within the delivery period, if mentioned in the tender, without which the bid will be rejected.				
9.0	**5.0**	Bidder must accept and comply with the following clauses as given in the Bid Document, failing which bid shall be liable for rejection: i) Liquidated Damages ii) Guarantee of material iii) Arbitration / Resolution of Dispute iv) Force Majeure v) Applicable Laws				

10.0	**6.0**	It is the bidder's responsibility to submit all the relevant valid documents along with the bid, which categorically complies the requisite criteria mentioned above from Clause 1.0 thru 5.0.				
11.0	**7.0**	In a tender, authorized Dealer / Distributor / Agent on behalf of the OEM or OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.				
12.0	**8.0**	If authorized Dealer / Distributor / Agent submits bid on behalf of the OEM, the same Dealer / Distributor / Agent shall not submit a bid on behalf of another OEM in the same tender for the same item/product.				

(B) TECHNICAL COMPLIANCE CHECK-LIST

Sl. No.	NIT Requirement	Compliance		Bidder to indicate Relevant Page No. of their Bid to support the remarks / compliance	Vendors' Deviation/ Remarks
		Yes	No		
1.0	**Compliance with Specification:** The Vendor shall be completely responsible for the design, materials, manufacture & fabrication, testing, inspection, preparation for shipment and transport of the ordered valves strictly in accordance with the NIT Specifications and all attachment thereto. All the valves shall be provided with EN 10204-3.2 certificates.				
2.0	Bidder must mention exact torque figure (maximum torque) required to operate the offered Plug Valves, items-wise at maximum operating pressure, in tabular format. The same will be approved by OIL for use during Inspection as one of the reference documents. (The torque figures for a valve at maximum operating pressure when operated frequently and the break-out torque required for a valve that is subject to long static periods)				
3.0	Bidders must specify the Maximum Allowable operating pressures for valves at (-) 28 deg C, 35 dec C and 65 deg C with the applicable rating tables for material groups in ASME B16.34.				

4.0	Offer shall be complete as per Scope of Supply, Annexure-F, otherwise Bid will be considered incomplete. The bidders to confirm and submit the signed and sealed Annexure-F: Scope of supply for API 6D Plug Valves along with the Technical bid.				
5.0	Hydraulic and Hand-Operated High Pressure Grease Guns shall be complete with Flexible Hose Assembly, Button-Head Connector, 5,000 PSIG Pressure Gauge etc.. Details of Hydraulic and Hand-Operated High Pressure Grease Guns along with Technical Bulletin to be submitted along with bid.				
6.0	Bidder must provide details for Sealant & Stem Packing Compound suitable to service fluid for trouble free operation of Plug Valves along with Size, diameter of Stick/Cartridges compatible to the offered valves. Sealants & Stem Packing Compound shall be selected for Valve Service Temperature, (-) 28 deg C to 65 deg C.				
7.0	Bidder shall also provide details for Valve FLUSH compatible with Sealant & Stem Packing to clean out hardened sealants and lubricants that contain solids and or fillers to free the Valve. Valve FLUSH should be of formulation using non-petroleum oils. Valve Flush should not contain acid, caustic, solvent, or solids and should be safe, biodegradable & non-hazardous. Valve Flush should work on the principal of pressure and penetration, cleaning out hardened sealants and lubricants that contain solids and/or fillers.				
8.0	All Gaskets shall be of ASME B16.20 to match Flanges to ASME B16.5 & MOC as following: i) For RF Flanges (Spiral-Wound): Graphite/Asbestos filler with outer centering ring and Inner compression ring of SS304/316. ii) For RTJ Flange (Ring-Joint): Type 'R' Ring Gasket, Soft Iron having Maximum Hardness of 90 Brinell (Rockwell "B" Scale-56)				
9.0	Manufacturer's Test Certificates to be furnished for Gaskets along with the supply as following: i) For Spiral-Wound: a) Manufacturer's test certificate for filler material and spiral material as per the relevant material specifications. b) Manufacturer's test certificate for raw materials and tests for compressibility/ seal-ability & recovery as per the relevant				

	material specifications. ii) For Ring-Joint: Chemical composition and hardness in the form of test reports on samples.				
10.0	All valves must have API monogram die-stamping.				
11.0	All valves of similar size, type and pressure rating shall have same casting pattern, bonnet design, height and overall dimensions.				
	Successful Party shall carry out servicing of supplied valves up to a period of 3 years. Frequency of the servicing will be quarterly and on call basis. Without servicing declaration, the quotations will not be considered for evaluation. Servicing engineer/technician will visit sites quarterly or within 7 days in case on call and shall carryout related service jobs as advised pertaining to the valves. The said service is applicable over & above the product warranty period. Vendors will have to quote separately for such servicing for any charges towards it including spares, sealant etc. required.				
13.0	The Lowest acceptable bidder whose product has not been field proven in OIL, may be considered for trial/development order for smaller quantity.				
14.0	In case the bidder/supplier is an authorized Dealer / Distributor / Agent, all the documents, Drawings, Data-sheets etc. shall be signed and stamped by Valve Manufacturer. Also, all the correspondence made by an authorized Dealer / Distributor / Agent will have to be endorsed by Valve Manufacturer.				
15.0	Design & Construction of offered Valves are as per Annexure-B, Special Note-18.				
16.0	Inspection & Tests will be carried out on the offered valves are as per Annexure-B, Special Note-19.				
17.0	Test Certificates & Documents shall be submitted along with supply of Valves as per Annexure-B, Special Note-21.				
18.0	Vendor to confirm that the Third Party Inspection will be carried out as per as per Annexure-B, Special Note-22 & 23.				
19.0	Materials & Test Procedures shall be a per Annexure-B, Special Note-24				

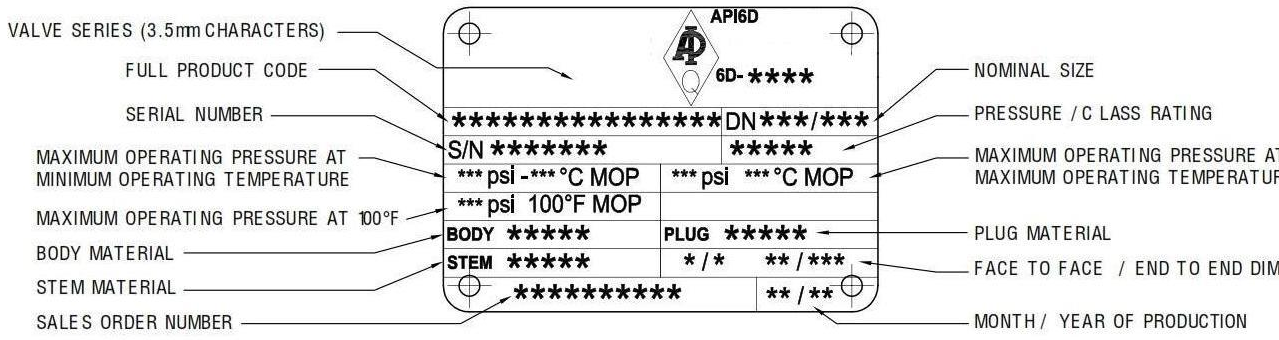
20.0	Painting, Marking & Shipment shall be a per Annexure-B, Special Note-25				
21.0	**DOCUMENTATION** i) At the time of bidding, the bidder shall submit the following documents: n) Copy of valid API 6D certificate o) General arrangement/ assembly drawings showing all features and relative positions & sizes of vents, drains, gear box & other external parts together with overall dimensions. p) Sectional Drawings with detailed dimensions showing all parts with reference numbers, Materials Specification. q) Cross Sectional Drawing along with exploded view of the parts not visible in the main cross-section drawing showing Materials Specification of all the parts. r) Exploded Sectional Isometric view of offered valves s) Datasheet for offered valves t) Reference list of similar plug valves manufactured and supplied in last five years, indicating all relevant details including project, year, client, location, size rating, service, etc. u) Descriptive technical catalogues of the Manufacturer. v) Details of support foot, including dimensions and distance from valve centre line to bottom of support foot. w) Bidder's Quality Assurance Plan as per Annexure-E. x) Point wise compliance of NIT requirements. Deviations if any, to this Technical specification and valve data-sheet enclosed with enquiry, shall clearly be mentioned in the deviation sheet attached as Annexure-G. If deviation sheet is not filled up it will be understood that there is no deviation to the OIL's requirements and the vendor fulfils all stipulated condition. No further correspondence in this regard shall be entertained after placement of order. y) Technical catalogue / literature of the valves.				

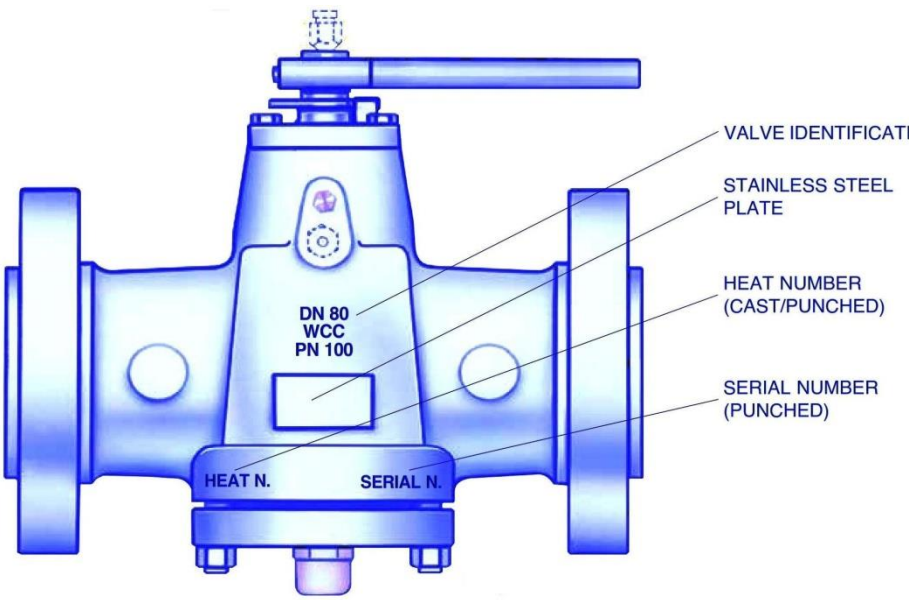
	z) Testing and quality control procedures / QAP. **<u>IMPORTANT</u>** **The drawings to be submitted along with the bid shall be in total compliance with the requirement of technical specification and data-sheets of the valves with no exception & deviation.** ii) Within two weeks of placement of detailed order, the manufacturer shall submit six copies of, but not limited to, the following drawings, documents and specifications for approval: a) Design drawings and relevant calculations for pressure containing parts and other principle parts. b) Detailed sectional arrangement drawing showing all parts with reference numbers and materials specification. c) Assembly drawings with overall dimensions & clearances required and showing all features. Drawing shall also indicate the numbers of turns of hand wheel (in case of gear operator) required for operating the valve from full open to full close position and the painting scheme. d) Heat treatment, testing and quality control procedures. e) Details of corrosion resistant paint to be applied on the valves. f) Design calculation for pressure containing parts. **Note: Manufacturing of the valves shall commence only after approval of the above documents. Once approval has been given by OIL, any change in design, material and method of manufacture shall be notified to the OIL, whose approval in writing for all changes shall be obtained before the valves are manufactured.** vi) Within 30 days from the approval date, Manufacturer shall submit one reproducible and six copies of the approved drawings, documents and specification as listed above. vii) Prior to shipment, Manufacturer shall submit one reproducible and six copies of following: a) Test certificates as listed in Note-6 of this specification. b) Manual for installation, erection instructions, maintenance and operation instructions, including a list of recommended spares				

	for the valves. viii) All documents shall be in English Language.				
	Vendor to confirm that the Guarantee of supplied items shall be per as per Annexure-B, Special Note-28				
22.0	The bidder's quote should indicate each and every item serially as given in the technical specification of the enquiry.				
23,0	Vendor to confirm that all valves shall meet the fire safe design requirement as per API-6FA.				
24.0	Vendor to confirm that delivery of materials will be done within 64 (sixfour) months after PO placement.				
25.0	Vendor to Confirm that bid is submitted along with Bid Enclosures as mentioned in the BRC Clauses.				

ANNEXURE-D

Sl. No.	Marking	Requirement
1.	Manufacturer's name or Trademark	On both body and Nameplate
2.	Pressure Class.	On both body and Nameplate
3.	Pressure / Temperature Rating a) Maximum operating pressure at maximum operating temperature b) Maximum operating pressure at minimum operating temperature	On Nameplate
4.	Face-to-face/end-to-end dimension	On Nameplate
5,	Body material designation: Material symbol, e.g., AISI, ASME, or ASTM	On both body and nameplate. Cast or heat number on nameplate only.
6.	Bonnet/cover material designation: Material symbol e.g., AISI, ASME, or ASTM	On bonnet/cover, including heat number
7.	Trim identification: Symbols indicating material of stem and sealing faces of closure members (Plug, Rings etc.) if different from that of body	On Nameplate
8.	Nominal Valve size	On both body and Nameplate
9.	Ring Joint Groove Number	On Valve Flange Edge (applicable for ANSI 900 Class & above)
10.	Unique serial number	On both bonnet/cover and Nameplate
11.	Date of manufacture (month and year)	On Nameplate
12.	API 6D	On Nameplate
13.	API-6D Certificate No.	On Nameplate





ANNEXURE-E

SAMPLE QUALITY ASSURANCE PLAN (QAP) FOR PLUG VALVES

1.0 GENERAL

1.1 .QAP shall be submitted for each valve separately with break-up of assembly/sub-assembly & part/component or for group of component having same specification. A sample QAP is as given below .

2.0 RAW MATERIAL AND IN PROCESS STAGE INSPECTION, TEST CERTIFICATES, DOCUMENTS ETC.

2.1 BODY

S.N.	*INSPECTION REQUIRED*	*INSPECTION BY*	*REFERENCE DOCUMENTS*
(A)	VISUAL & DIMENSIONAL	TPI (review) MFR (review)	APPROVED GAD, REPORTS
(B)	PHYSICAL TEST (Sample)	TPI (review) MFR (review)	MATERIAL TEST CERTIFICATES
(C)	CHEMICAL TEST (Sample)	TPI (review) MFR (review)	MATERIAL TEST CERTIFICATES
(D)	ULTRASONIC TEST	TPI (review) MFR (hold)	RELEVANT STANDARD & TEST REPORTS
(E)	MAGNETIC PARTICLE TEST(MPI)	TPI (review) MFR (hold)	RELEVANT STANDARD & TEST REPORTS
(F)	RADIOGRAPHIC TEST	TPI (review) MFR (hold)	RELEVANT STANDARD & TEST REPORTS
(G)	HEAT TREATMENT	TPI (review) MFR (review)	RELEVANT STANDARD, HT CHARTS, TEST REPORTS, MTC
(H)	CHARPY “V” NOTCH TEST	TPI (review) MFR (review)	RELEVANT STANDARD & MATERIAL TEST CERTIFICATES
TPI:THIRD PARTY INSPECTOR			
MFR:MANUFACTURER			

2.2 COVER

S.N.	*INSPECTION REQUIRED*	*INSPECTION BY & PLAN*	*REFERENCE DOCUMENTS*
(A)	VISUAL & DIMENSIONAL	TPI(review) MFR(review)	APPROVED GAD, REPORTS
(B)	PHYSICAL TEST (Sample)	TPI(review) MFR(review)	MATERIAL TEST CERTIFICATES
(C)	CHEMICAL TEST (Sample)	TPI(review) MFR(review)	MATERIAL TEST CERTIFICATES
(D)	ULTRASONIC TEST	TPI(review) MFR(hold)	RELEVANT STANDARD & TEST REPORTS
(E)	MAGNETIC PARTICLE TEST (MPI)	TPI(review) MFR(hold)	RELEVANT STANDARD & TEST REPORTS
(F)	RADIOGRAPHIC TEST	TPI(review) MFR(hold)	RELEVANT STANDARD & TEST REPORTS
(G)	HEAT TREATMENT	TPI(review) MFR(review)	RELEVANT STANDARD, HT CHARTS, TEST REPORTS,

			MTC
(H)	CHARPY "V" NOTCH TEST	TPI(review) MFR(review)	RELEVANT STANDARD & MATERIAL TEST CERTIFICATES
TPI:THIRD PARTY INSPECTOR			
MFR:MANUFACTURER			

2.3 PLUG

S.N.	***INSPECTION REQUIRED***	***INSPECTION BY***	***REFERENCE DOCUMENTS***
(A)	VISUAL & DIMENSIONAL	TPI(review) MFR(review)	APPROVED GAD, REPORT
(B)	PHYSICAL TEST (Sample)	TPI(review) MFR(review)	MATERIAL TEST CERTIFICATES
(C)	CHEMICAL TEST (Sample)	TPI(review) MFR(review)	MATERIAL TEST CERTIFICATES
(D)	HEAT TREATMENT	TPI(review) MFR(review)	RELEVANT STANDARD, HT CHARTS, TEST REPORTS, MTC
(E)	ENP COATING	TPI(review) MFR(hold)	RELEVANT STANDARD & MTC FOR COMPOSITION, HARDNESS, THICKNESS & INTEGRITY
(F)	CHARPY "V" NOTCH TEST	TPI(review) MFR(review)	RELEVANT STANDARD & MATERIAL TEST CERTIFICATES
TPI:THIRD PARTY INSPECTOR			
MFR:MANUFACTURER			

2.4 STEM

S.N.	***INSPECTION REQUIRED***	***INSPECTION BY & PLAN***	***REFERENCE DOCUMENTS***
(A)	VISUAL & DIMENSIONAL	TPI(review) MFR(review)	APPROVED GAD,REPORT
(B)	PHYSICAL TEST (Sample)	TPI(review) MFR(review)	MATERIAL TEST CERTIFICATES
(C)	CHEMICAL TEST (Sample)	TPI(review) MFR(review)	MATERIAL TEST CERTIFICATES
(D)	HEAT TREATMENT	TPI(review) MFR(review)	RELEVANT STANDARD, HT CHARTS, TEST REPORTS, MTC
(E)	ENP COATING	TPI(review) MFR(hold)	RELEVANT STANDARD & MTC FOR COMPOSITION, HARDNESS, THICKNESS & INTEGRITY
TPI:THIRD PARTY INSPECTOR			
MFR:MANUFACTURER			

2.5 SEAT

S.N.	***INSPECTION REQUIRED***	***INSPECTION BY & PLAN***	***REFERENCE DOCUMENTS***
(A)	VISUAL & DIMENSIONAL	TPI(review) MFR(review)	APPROVED GAD, REPORT
(B)	PHYSICAL TEST (Sample)	TPI(review) MFR(review)	MATERIAL TEST CERTIFICATES
(C)	CHEMICAL TEST (Sample)	TPI(review) MFR(review)	MATERIAL TEST CERTIFICATES

(D)	HEAT TREATMENT	TPI(review) MFR(review)	RELEVANT STANDARD, HT CHARTS, TEST REPORTS, MTC
(E)	ENP COATING	TPI(review) MFR(hold)	RELEVANT STANDARD & MTC FOR COMPOSITION, HARDNESS, THICKNESS & INTEGRITY
TPI:THIRD PARTY INSPECTOR			
MFR:MANUFACTURER			

2.6 STUD & NUTS (BOLTING MATERIAL)			
S.N.	***INSPECTION REQUIRED***	***INSPECTION BY & PLAN***	***REFERENCE DOCUMENTS***
(A)	VISUAL & DIMENSIONAL	TPI(review) MFR(review)	APPROVED GAD,REPORT
(B)	PHYSICAL TEST (Sample)	TPI(review) MFR(review)	MATERIAL TEST CERTIFICATES
(C)	CHEMICAL TEST (Sample)	TPI(review) MFR(review)	MATERIAL TEST CERTIFICATES
(D)	HEAT TREATMENT	TPI(review) MFR(review)	RELEVANT STANDARD, HT CHARTS, TEST REPORTS, MTC
(E)	CHARPY “V” NOTCH TEST	TPI(review) MFR(review)	RELEVANT STANDARD & MATERIAL TEST CERTIFICATES
TPI:THIRD PARTY INSPECTOR			
MFR:MANUFACTURER			

3.0 INSPECTION AFTER VALVE ASSEMBLY

3.1 ASSEMBLED VALVES(PLUG)			
S.N.	***INSPECTION REQUIRED***	***INSPECTION BY & PLAN***	***REFERENCE DOCUMENTS***
(A)	VISUAL & DIMENSIONAL	MFR (hold) TPI (witness)	APPROVED GAD, REPORT
(B)	FITMENT & ALIGNMENT	MFR (hold) TPI (witness)	REPORTS
(C)	PRESSURE TEST	MFR (hold) TPI (witness) OIL (witness)	API 6D, REPORTS, TEST CERTIFICATES
(D)	LEAKAGE TEST	MFR (hold) TPI (witness) OIL (witness)	API 6D, REPORTS, TEST CERTIFICATES
(E)	FIRE TEST (TYPE TEST)	MFR (review) TPI (review) OIL (review)	API 6FAM REPORTS, TEST CERTIFICATES
(F)	OPERATIONAL TORQUE TEST	MFR (hold) TPI (witness) OIL (witness)	API 6D, OIL APPROVED MFR TORQUE TABLE, REPORTS, TEST CERTIFICATES
(G)	CALIBRATION	MFR (hold) TPI (review) OIL (review)	CERTIFICATES

(H)	PAINTING	MFR (hold) TPI (review) OIL (review)	API 6D, PO, MFR PROCEDURE, REPORTS, TEST CERTIFICATES
(I)	HYDROSTATIC DOUBLE BLOCK & BLEED TEST	MFR (hold) TPI (witness) OIL (witness)	API 6D, REPORTS, TEST CERTIFICATES
(J)	FUNCTIONAL TEST	MFR (hold) TPI (witness) OIL (witness)	REPORTS, TEST CERTIFICATES
TPI:THIRD PARTY INSPECTOR			
MFR:MANUFACTURER			
OIL INDIA LTD			

4.0

4.1 FINAL DOCUMENTATION

S.N.	***INSPECTION REQUIRED***	***INSPECTION BY & PLAN***	***REFERENCE DOCUMENTS***
1.	FINAL DOCUMENTATION CHECK	MFR (hold) TPI (review)	FINAL REPORTS FINAL TEST CERTIFICATES
TPI:THIRD PARTY INSPECTOR			
MFR:MANUFACTURER			
OIL INDIA LTD			

"hold"……The test will be conducted
"review"……..The test report will be reviewed, verified
"witness"…….The test will be performed in the presence of the concerned personnel such as MFR, TPI and OIL.

COPEOFSUPPLYFORAPI6DPLUGVALVES

ANNEXURE-F

Sl No	Valve Description	Total no. of valves reqd. in Nos.	No. of flanges reqd. per no of valve	No. of Spiral Wound/Ring Gaskets required per no of valve	No. of stud/bolt required per no of valves	Wrench / Hand wheel rqd. per valve	Total nos of Flanges required against the Item	Total nos. of Spiral Wound/Ring Gaskets required against the Item	Total nos. of stud/bolt required against the Item	Total nos. of Wrench / Hand wheel required against the Item	Total sets of Hand-Operated Grease Gun required against the Item	Total sets of Hydraulic Grease Gun required against the Item	Total Sealants Required againt the Item (KG)	Total Stem Packing Compound required against the Item (KG)	Total FLUSH Sticks required against the Item (KG)
(a)	(b	(c)	(d)	(e	(f	(g)	(h)=(c)x(d)	(i)=(c)x(e)	(j)=(c)x(f)	(k)=(c)x(g)	l	m	n	o	p
1	50 mm (2") NB x 150 Class, Short Pattern, RF Fanged	18	2	2	8	1	36	36	144	18	2	0	0.9	0.45	0.45
2	50 mm (2") NB x 300 Class, Short Pattern, RF Fanged	30	2	2	16	1	60	60	480	30	3	0	1.5	0.75	0.75
3	50 mm (2") NB x 900 Class, Short Pattern, RTJ Fanged	24	2	2	16	1	48	48	384	24	2	0	1.2	0.6	0.6
4	50 mm (2") NB x 1500 Class, Short Pattern, RTJ Fanged	36	2	2	16	1	72	72	576	36	3	1	1.8	0.9	0.9
5	50 mm (2") NB x 2500 Class, Short Pattern, RTJ Fanged	24	2	2	16	1	48	48	384	24	2	0	1.2	0.6	0.6
6	100 mm (4") NB x 150 Class, Short Pattern, RF Fanged	12	2	2	16	1	24	24	192	12	1	0	0.6	0.3	0.3
7	100 mm (4") NB x 300 Class, Short Pattern, RF Fanged	36	2	2	16	1	72	72	576	36	3	1	1.8	0.9	0.9
8	100 mm (4") NB x 900 Class, Regular Pattern, RTJ Fanged	24	2	2	16	1	48	48	384	24	2	0	1.2	0.6	0.6
9	100 mm (4") NB x 1500 Class, Regular Pattern, RTJ Fanged	18	2	2	16	1	36	36	288	18	2	0	0.9	0.45	0.45
10	100 mm (4") NB x 2500 Class, Regular Pattern, RTJ Fanged	18	2	2	16	1	36	36	288	18	2	0	0.9	0.45	0.45

In the event of placement of Purchase Order against our firm, we hereby confirm to supply the required numbers of flanges, gaskets, Stud/Bolts and wrench/hand wheel under column (h), (i), (j) , (k), (l), (m), (n), (o) & (p) respectively as per tender specification.

Annexure – G

Deviation Sheet

Tender No. ……..	
Offer No…….. Item No……	
Requirement as per specification	Description of Waiver/Deviation
Why the Waiver/Deviation is required?	
Supporting evidence / Calculations enclosed / not enclosed	

Se

1.0 GENERAL NOTE FOR BIDDERS :

1. The items shall be brand new, unused & of prime quality. The manufacturer shall warrant (in the event of an order) that the product supplied will be free from all defects & fault in material, workmanship & manufacture and shall be in full conformity with ordered specifications. This clause shall be valid for 18 months from date of shipment or 12 months from date of commissioning of the items, whichever is earlier. The defective materials, if any, rejected by OIL shall be replaced by the supplier. Bidders must confirm the same in their quotations.

2. The items covered by this enquiry shall be used by Oil India Limited in the PEL/ML areas which are issued/renewed after 01/04/99 and hence Nil Customs Duty during import will be applicable. Indigenous bidder shall be eligible for Deemed Export Benefit against this purchase. Details of Deemed Export are furnished vide Addendum to MM/GLOBAL/E-01/2005 attached. However, Indian bidders will not be issued Recommendatory Letter.

3.Other terms and conditions of the tender shall be as per "General Terms & Conditions" for e- Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders). However, if any of the Clauses of the Bid Rejection Criteria (BRC) / Bid Evaluation Criteria (BEC) mentioned here contradict the Clauses in the "General Terms & Conditions" for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders) of the tender and/or elsewhere, those mentioned in this BEC / BRC shall prevail.

4. TheIntegrity Pact is applicable against this tender .OIL shall be entering into an Integrity Pact with the bidders as per format enclosed vide Annexure XII of the tender document. This Integrity Pact proforma has been duly signed digitally by OIL's competent signatory. The proforma has to be returned by the bidder (along with the technical bid) duly signed (digitally) by the same signatory who signed the bid, i.e., who is duly authorized to sign the bid. Uploading the Integrity Pact with digital signature will be construed that all pages of the Integrity Pact has been signed by the bidder's authorized signatory who sign the Bid.**If any bidder refuses to sign Integrity Pact or declines to submit Integrity Pact with the offer, their bid shall be rejected straightway.**
OIL's Independent External Monitor at present are as under:

SHRI RAJIV MATHUR, IPS (Retd.),
Former Director (IB) Govt. of India
e-Mail ID : rajivmathur23@gmail.com

&

SHRI SATYANANDA MISHRA, IAS (RETD.)
Former Chief Information Commissioner of India &
Ex-Secretary, DOPT, Govt. Of India
e-Mail ID : satyanandamishra@hotmail.com

ANNEXURE – II

BID EVALUATION CRITERIA (BEC)/BID REJECTION CRITERIA (BRC)

In addition to BRC/BEC criteria vide SECTION – 'D' of General Terms and Conditions for Global Tender (MM/ GLOBAL/E-01/2005), the following clause will be applicable against this tender.

The bids shall conform to the specifications, terms and conditions given in the tender. Bids shall be rejected in case the item(s) offered do not conform to technical specifications and to the respective international / national standards wherever stipulated.

Notwithstanding the general conformity of the bids to the stipulated specifications, and terms & conditions, the following requirements shall have to be particularly met by the bidders, without which the offer will be considered as non-responsive and rejected. All the documents related to BRC must be submitted along with the technical bid.

A) TECHNICAL:

1.0 BRC (Technical) - Qualification

1.1 The bidder shall be an Original Equipment Manufacturer of API 6D Valves similar to Tender Valve Data Sheet indicated in the tender or shall be an authorized Dealer / Distributor / Agent of an Original Equipment Manufacturer of the tendered item(s) having valid authorization letter in the form of Certificate of Dealership / Distributorship / Agency. The valid Authorized Dealer / Distributor/ Agent must submit Authorization Letter along with Technical Bid from the OEM for bidding against this tender with back-up Warranty, which should be valid as per Tender Warrantee /Guarantee Terms & Conditions.

1.2 The Original Equipment Manufacturer of the tendered item(s) shall be holding relevant API Certificate(s) with continuous validity for 5 years preceding original bid closing date of the tender, and copy of relevant API Certificate(s) shall be submitted by the Bidder along with the technical bid. For this Bidder should submit the latest Valid API Certificate(s) along with all the past API Certificate(s) to meet the above criterion.

2.0 BRC (Technical) - Experience

2.1 In case the bidder is an Original Equipment Manufacturer of the tendered item(s),

2.1.1 The bidder shall have experience of successful execution of past supply for minimum 50% quantity (to be rounded off to next higher integer) of each tender item of same or higher size & Pressure Rating of API 6D Valves similar to Tender Valve Data Sheet indicated in the tender, against valid purchase order / contract awarded in last 5 years preceding the original bid closing date of the tender to upstream, midstream and downstream Oil & Gas Industry or Service Provider to an E&P company, either by themselves or through their Dealer / Distributor / Agent for their own (OEM) products.

2.2 In case the bidder is an authorized Dealer / Distributor / Agent

2.2.1 The OEM shall fulfill the experience criteria mentioned in clause 2.1.1 mentioned above.

2.2.2 Additionally, the bidder himself shall have experience of successful execution of past supply for minimum 50% quantity (to be rounded off to next higher integer) each tender item of same or higher size & Pressure Rating of API 6D Valves similar to Tender Valve Data Sheet indicated in the tender against valid purchase order / contract awarded in last 5 years preceding the original bid closing date of the tender, to upstream, midstream and downstream Oil & Gas Industry or service provider to an E&P company, provided either from the same OEM or from any other OEM.

2.2.3 The bid shall be rejected in case of any change of the proposed Original Valve Manufacturer after submission of the bid.

2.3 The bidder shall submit documents in support of successful execution of past supply experience and of the OEM, as applicable under clause 2.1.1, 2.2.1 & 2.2.2, as below:

(i) Copy(ies) of detail Purchase Order(s)/Contract document(s) containing Technical specification, Approved Drawings and Data-sheet etc. and,

(ii) Performance Bank Guarantee Release Document / Performance Report from Client of the corresponding executed supply and,

(iii) Any one or combination of the following documents ,

a) Commercial invoice or
b) Bill of lading or
c) Final inspection release note from Third Party Inspection Agency.

3.0 Bidder shall provide a copy of certificate for Fire Safe Design as per API 6FA (for API 6D Gate, Ball & Plug Valves) and API 6FD (for API 6D Check Valve) for the quoted valve. As a proof of Fire Test, the following documents approved by Third Party Inspection agency shall be submitted along with the bid for the fire tested valve:

a) Fire Test Report
b) Valve Cross sectional drawing along with Material of Construction (MOC) of all the components.

Fire test certificate is required to be submitted for at least 1 no. Valve similar to tender valve data sheet for size & Pressure Rating as specified in above Specifications to establish that the tested valve is similar to the tendered item.

4.0 The bidder should categorically confirm in the technical bid that the tendered items will be supplied within the delivery period, if mentioned in the tender, without which the bid will be rejected.

5.0 Bidder must accept and comply with the following clauses as given in the Bid Document, failing which bid shall be liable for rejection:

i) Liquidated Damages
ii) Guarantee of material
iii) Arbitration / Resolution of Dispute
iv) Force Majeure
v) Applicable Laws

6.0 It is the bidder's responsibility to submit all the relevant valid documents along with the bid, which categorically complies the requisite criteria mentioned above from Clause 1.0 thru 5.0.

7.0 In a tender, authorized Dealer / Distributor / Agent on behalf of the OEM or OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.

8.0 If authorized Dealer / Distributor / Agent submits bid on behalf of the OEM, the same Dealer / Distributor / Agent shall not submit a bid on behalf of another OEM in the same tender for the same item/product.

Financial Criteria:

1 **Annual Turnover**: The bidder shall have an annual financial turnover of minimum **US$ 1,72,221.00 or Rs 117,11,000.00** during any of the preceding 03 (three) financial years reckoned from the original bid closing date of the tender.

2 "Net Worth" of the bidder should be positive for the preceding financial/accounting year.

3 Considering the time required for preparation of Financial Statements, if the last date of preceding financial / accounting year falls within the preceding six months reckoned from the original bid closing date and the Financial Statements of the preceding financial / accounting year are not available with the bidder, then the financial turnover of the previous three financial / accounting years excluding the preceding financial / accounting year will be considered. In such cases, the Net worth of the previous financial / accounting year excluding the preceding financial / accounting year will be considered. However, the bidder has to submit an affidavit/undertaking certifying that 'the balance sheet/Financial Statements for the financial year..... (As the case may be) has actually not been audited so far'.

Note: For proof of Annual Turnover & Net worth any one of the following document must be submitted along with the bid:-

i) A certificate issued by a practicing Chartered Accountant (with Membership Number and Firm Registration Number), certifying the Annual turnover & Net worth as per format prescribed in ANNEXURE.

OR

ii) Audited Balance Sheet along with Profit & Loss account.

4 In case the Audited Balance Sheet and Profit & Loss Account submitted along with the bid are in currencies other than INR or US$, the bidder shall have to convert the figures in equivalent INR or US$ considering the prevailing conversion rate on the date of Balance Sheet and Profit & Loss Account. A CA certificate is to be submitted by the bidder regarding converted figures in equivalent INR or US$.

B) COMMERCIAL

Commercial Bid Rejection Criteria will be as per Section D of General Terms & Conditions of Global Tender (MM/GLOBAL/E-01/2005) with following Special Bid Rejection Criteria.

1) Bids are invited under **Single Stage Two Bid System**. Bidders shall quote accordingly under Single Stage Two Bid System. **Please note that no price details should be furnished in the Technical (i.e. Unpriced) bid**. The "Unpriced Bid" shall contain all techno-commercial details except the prices, which shall be kept blank. The "Price Bid" must contain the price schedule and the bidder's commercial terms and conditions.
Bidder not complying with above submission procedure will be rejected.

2.0 **Bid security of INR 4,68,400.00 or US$ 6,888.00** shall be furnished as a part of the TECHNICAL BID. **Any bid not accompanied by a proper bid security in ORIGINAL will be rejected without any further consideration.** A bid shall be rejected straightway if Original Bid Security is not received within the stipulated date & time mentioned in the Tender and/or if the Bid Security validity is shorter than the validity indicated in Tender and/or if the Bid Security amount is lesser than the amount indicated in the Tender.

2.1 For exemption for submission of Bid Security please refer Clause No. 9.8 (Section A) of "General Terms & Conditions" for e-Procurement as per Booklet No.

MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders).

2.2 Bank Guarantee towards Bid Security shall **remain valid till 08.08.2016.**

3) Validity of the bid shall be minimum 120 days from the date of Bid Closing Date. Bids with lesser validity will be straightway rejected.

4) Bidders must confirm that Goods, materials or plant(s) to be supplied shall be new of recent make and of the best quality and workmanship and shall be guaranteed for a period of 18 months from the date of shipment/dispatch or twelve (12) months from the date of receipt of the items at destination, whichever is earlier against any defects arising from faulty materials, workmanship or design. Defective goods/materials or parts rejected by OIL shall be replaced immediately by the supplier at the supplier's expenses at no extra cost to OIL.

5) Successful bidder will be required to furnish a Performance Bank Guarantee @10% of the order value. The Performance Bank Guarantee must be valid for a period of 18 months from the date of shipment/dispatch or twelve (12) months from the date of receipt of the items at destination, whichever is earlier. Bidder must confirm the same in their Technical Bid. Offers not complying with this clause will be rejected.

6) Offers should be submitted with Integrity Pact duly signed by the authorized signatory of the bidder. If any bidder refuses to sign Integrity Pact or declined to submit Integrity Pact with the offer, their bid shall be rejected straightway.

7) Bidders are required to submit the summary of the prices in their price bids as per bid format (Summary), given below.

I) Price Bid Format (SUMMARY) for Foreign Bidders :

(A) Total Material Value:
(B) Packing & FOB Charges :
(C) Total FOB Port of Shipment value, (A + B) above :
(D) Overseas Freight Charges upto Kolkata, India :
(E) Insurance Charges :
(F) Total CIF Kolkata value, (C+D+E) :
(G) Total Value in words :
(H) Gross Weight :
(I) Gross Volume :

II) Price Bid Format (SUMMARY) for Indigenous Bidders:

(A) Total Material Value:
(B) Packing and Forwarding Charges:
(C) Total Ex-works value, (A + B) above :
(D) Sales Tax, (Please indicate applicable rate of Tax)
(E) Total FOR Despatching station price, (C+D) above
(F) Road Transportation charges to Duliajan
(G) Insurance Charges
(H) Assam Entry Tax
(I) Total FOR Duliajan value, (E+F+G + H) above
(J) Total Value in words :
(K) Gross Weight :
(L) Gross Volume :

Note: 1) The items covered under this enquiry shall be used by OIL in the PEL/ML areas issued/renewed after 01/04/99 and hence, applicable Customs Duty for import of goods shall be ZERO.Indigenous bidders must quote Deemed Export prices. Excise Duty under Deemed Export is exempted.

8) The prices offered will have to be firm through delivery and not subject to variation on any account. A bid submitted with an adjustable price will be treated as non-responsive and rejected.

9) Bids received after the bid closing date and time will be rejected. Similarly, modifications to bids received after the bid closing date & time will not be considered.

10) Bids containing incorrect statement will be rejected.

11) Bidder shall accept and comply with the following clauses as given in the Bid Document, failing which bid shall be liable for rejection:

i) Liquidated Damages
ii) Warranty/Guarantee of material
iii) Arbitration / Resolution of Dispute
iv) Force Majeure
v) Applicable Laws

BID EVALUATION CRITERIA

Bids conforming to the specifications, terms and conditions stipulated in the tender and considered to be responsive after subjecting to the Bid Rejection Criteria will be considered for further evaluation as per the Bid Evaluation Criteria mentioned in Section D of "General Terms & Conditions" for e- Procurement as per Booklet No. MM/GLOBAL/E-01/2005.

***

ANNEXURE – III

CHECK LIST

THE CHECK LIST MUST BE COMPLETED AND RETURNED WITH YOUR OFFER. PLEASE ENSURE THAT ALL THESE POINTS ARE COVERED IN YOUR OFFER. THESE WILL ENSURE THAT YOUR OFFER IS PROPERLY EVALUATED. PLEASE SELECT "Yes" OR "No" TO THE FOLLOWING QUESTIONS, IN THE RIGHT HAND COLUMN.

A. COMMERCIAL

Sl#	REQUIREMENT	COMPLIANCE
1.0	Whether bid submitted under Single Stage Two Bid System?	Yes / No
2.0	Whether quoted as manufacturer?	Yes / No
2.1	Whether quoted as OEM Dealer / Supply House. To Specify-	Yes / No
2.2	If quoted as OEM Dealer / Supply House	Yes / No
	(a) Whether submitted valid and proper authorization letter from manufacturer confirming that bidder is their authorized Dealer / supply House for the product offered ?	
3.0	(b) Whether manufacturer's back-up Warranty/Guarantee certificate submitted?	
	Whether ORIGINAL Bid Bond (not copy of Bid Bond) as per Revised Format(Annexure VII Revised) Sent separately? If YES, provide details	Yes / No
	(a) Amount :	
	(b) Name of issuing Bank :	
	(c) Validity of Bid Bond :	
4.0	Whether offered firm prices ?	Yes / No
4.1	Whether quoted offer validity of 120 days from the bid closing date of tender?	Yes / No
4.2	Whether quoted a firm delivery period?	Yes / No
4.3	Whether agreed to the NIT Warranty clause?	Yes / No
4.4	Whether confirmed acceptance of tender Payment Terms of 80% against shipment/dispatch documents and balance 20% after successful commissioning/testing along with commissioning/testing charges?	Yes / No
5.0	Whether confirmed to submit PBG as asked for in NIT?	Yes / No
5.1	Whether agreed to submit PBG within 30 days of placement of order?	Yes / No
6.0	Whether Price submitted as per Price Schedule (refer Para 12.0 of BRC vide Annexure – II)?	Yes / No
6.1	Whether cost of Recommended Spares for 2 years of operations quoted?	YES/NO
7.0	Whether quoted as per NIT (without any deviations)?	Yes / No
7.0	Whether quoted any deviation?	Yes / No
7.1	Whether deviation separately highlighted?	Yes / No
8.0	Whether indicated the country of origin for the items quoted?	Yes / No
8.1	Whether technical literature / catalogue enclosed?	Yes / No
8.2	Whether weight & volume of items offered indicated?	Yes / No
9.0	For Foreign Bidders - Whether offered FOB / FCA port of despatch including sea / air worthy packing & forwarding?	Yes / No

9.1	For Foreign Bidders – Whether port of shipment indicated. To specify:	Yes / No
9.2	For Foreign Bidders only - Whether indicated ocean freight up to Kolkata port (Excluding marine insurance) ?	Yes / No
9.3	Whether Indian Agent applicable ?	Yes / No
	If YES, whether following details of Indian Agent provided?	
	(a) Name & address of the agent in India – To indicate	
	(b) Amount of agency commission – To indicate	
	(c) Whether agency commission included in quoted material value?	
10.0	For Indian Bidders – Whether indicated the place from where the goods will be dispatched. To specify :	Yes / No
10.1	For Indian Bidders – Whether road transportation charges up to Duliajan quoted?	Yes / No
10.2	For Indian Bidders only - Whether offered Ex-works price including packing/forwarding charges?	Yes / No
10.3	For Indian Bidders only - Whether indicated import content in the offer?	Yes / No
10.4	For Indian Bidders only - Whether offered Deemed Export prices?	Yes / No
10.5	For Indian Bidders only – Whether all applicable Taxes & Duties have been quoted?	Yes / No
11.0	Whether all BRC/BEC clauses accepted ?	Yes / No
12.0	Whether Integrity Pact with digital signature uploaded?	Yes / No
12.1	Whether all the clauses in the Integrity Pact have been accepted?	Yes / No

****