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1 GENERAL

This Requisition covers the specific purchase conditions relating to "Request for Quotation" or "Purchase Order" for the Equipment/Materials.

The documents listed in Applicable Documents (Attachment-3) in this Requisition shall constitute an integral part of this Requisition. International recognized Codes and Standards are acceptable where applicable.

Independent Verification

Party (IVP) : The body or organization appointed by the COMPANY to carryout design verification and quality assurance audit and / or inspection on behalf of the COMPANY.

2 SCOPE OF VENDOR'S SUPPLY

The Vendor shall supply all equipment and auxiliaries listed below in Paragraph 2.1. The scope shall include all labor, supervision, transportation, material, tools, supplies and services required to design, document submission/re-submission as scheduled, fabricate, assemble, inspect, test, pack and load the equipment in accordance with this Requisition.

All equipment design, fabrication, testing and installation shall be performed in accordance with the vendor's proven standard.

2.1 Equipment/Material

Vendor shall supply equipment and/or materials and accessories as per Equipment/Materials (Attachment-1). Equipment/Materials shall include, but not be limited to, as per scope of Work and Supply (Attachment-2).

All equipment/material shall be factory assembled.

2.2 Special Tools

Vendor shall supply special tools and devices necessary for the lifting, erection, testing and maintenance of the equipment and materials of Vendor's supply. These shall be easily identifiable and shall be supplied in a lockable steel cabinet. The price for these items shall be indicated separately and included in the total lump sum price.

2.3 Spare Parts

The price of the spare parts shall be indicated separately, and shall not be included in the Equipment/Material price.

- (1) For construction, assembly and pre-commissioning ("Construction Spare Parts")
Vendor shall submit a price list of recommended and Pre-commissioning spare parts needed to adequately cover loss during construction. Purchaser may purchase Construction Spare Parts with Equipment/Material as lump sum price.
- (2) For commissioning and start-up ("Start-up spare parts")
Vendor shall submit a price list of recommended spare parts used for commissioning and start-up period. Purchaser may purchase Start-up spare parts with Equipment/Material as lump sum price.
- (3) For Capital Spares ("Capital Spare parts")
Vendor shall submit a price list of the capital spares which are major individual items on sub-assemblies of equipment. Purchaser may purchase capital spare parts with Equipment/Material as lump sum price.
- (4) For two (2) years operation and maintenance ("Two (2) years spare parts")
Vendor shall submit a price list of recommended spare parts used or consumed for day to day maintenance, overhauls and inspections and due to wear, corrosion, erosion or deterioration under normal service for a period of first two (2) years after mechanical completion. Purchaser may purchase Operational Spare Parts on behalf of COMPANY after COMPANY accepts the proposed price and quantity.
- (5) Spare Parts List
Spare Parts List for above item (1), (2), (3) and (4) shall be issued in accordance with Attachment-13 "SPARE PARTS REQUIREMENTS/INSTRUCTION".

3 SCOPE OF VENDOR SERVICES

Vendor shall furnish all the necessary services for design and fabrication, including the following, in accordance with the Applicable Documents specified in this Requisition.

3.1 Vendor's Drawing and Document Requirements

- (1) Vendor shall provide in its proposal a time schedule for the submission of documents, fabrication, testing and inspection, ready for shipment at workshop and port for export, etc.
- (2) All Vendor drawings and documents shall be in English.
- (3) Vendor shall submit Vendor Manufacturing Report.
- (4) Units for all design and engineering documents shall be in accordance with COMPANY'S Specification 1.3.1-01(SPECIFICATION OF APPLIED ENGINEERING UNITS).

3.2 Operational consumable

Vendor shall inform Purchaser of the specifications and quantities of operational consumable, if the consumable are Vendor's exclusive products, Vendor shall provide a price list in its proposal.

3.3 Scope of Inspection

- (1) Inspection level
Inspection as per Attachment-5 "SCOPE OF INSPECTION".
- (2) Scope of Inspection
Refer to Attachment-5 "SOCPE OF INSPECTION"
- (3) Inspection and Test Plan (ITP)
Vendor shall prepare ITP for Contractor's approval in accordance with Attachment-5 "SCOPE OF INSPECTION", and the applicable documents listed in Attachment-3 of this requisition.

3.4 Surface Painting

Surface painting up to finish shall be as per Vendor's standard, approved by Purchaser

3.5 Shipping and Packing requirements

Vendor is responsible to provide standard packing by keeping in view mod of transportation and environmental condition for the safe / secure delivery of equipments at site.

4 QUALITY ASSURANCE SYSTEM REQUIREMENTS

Vendor shall establish and maintain a quality assurance system based on ISO 9001 international standard or equivalent national standard. Vendor shall submit Purchaser Quality Manual or Quality Plan for the Project. If Vendor is certified under ISO 9001 by a recognized accreditation body, a copy of the certification shall be submitted.

Note : Quality Manual is a document stating the quality policy and describing the quality system of an organization as defined in ISO 9000-2000. Quality Plan is a document setting out the specific quality practices, resources and sequence of activities relevant to a particular product, project or contract as defined in ISO 9000-2000.

If Vendor's quality management system is not in accordance with ISO 9000, the following Vendor's information/procedures shall be submitted to PURCHASER:

- Organization showing the inter-relations within Vendor's organization indicating the responsibilities and designations of key personnel and management representative
- Design control
- Document control
- Schedule control
- Fabrication/manufacturing control, including control of special processes, procedures and facilities
- Inspection and testing control, inspection/test status and control of non-conformance
- Packing and shipping control

Vendor shall be fully responsible for the controlling quality of its sub-vendors/subcontractors. PURCHASER reserve the right to audit Vendor and its sub-vendors/subcontractors against the purchase requirements and ISO 9001 standards.

5 DEVIATIONS AND ALTERNATIVES

Vendor shall notify Purchaser of any proposed deviations and alternatives from the requisition requirements using the Vendor's Deviation/Correction List Attachment-6 which shall be submitted with Vendor's proposal. Deviations and alternatives included in any other part of Vendor's proposal besides the Vendor Deviation List will not be accepted by Purchaser, and Purchaser has no responsibility to discover the deviations and alternatives entered in other parts of Vendor's proposal. If awarded the order, Vendor must comply with the applicable documents except only of the items of deviations and alternatives accepted by Purchaser.

6 DOCUMENT PRIORITY

In cases of conflict the order of precedence for requisition documents will be the latest revision of the following.
However, all conflicts amongst applicable documents shall be referred to Purchaser for clarification.

- (1) The Purchase Order
- (2) This Requisition
- (3) Contractor Data Sheet/Contractor project Specifications
- (4) COMPANY's Standard Specifications and Drawings
- (5) Contractor Standard Specification and Drawings
- (6) Industrial Code/Standards, e.g. ASME, ANSI, ETC

If the conflict is still not resolved, Vendor shall request Purchaser to give a final judgment.

7 VENDOR'S RESPONSIBILITIES

- (1) Vendor shall assume unit responsibility for coordination, design integration, materials, fabrications, test and inspection, delivery and proper function of complete equipment including all tools and accessories required for the normal operation of the equipment.
- (2) Vendor shall verify this requisition in order satisfies the mechanical and performance guaranteed requirements.
- (3) Approval of the Vendor's calculations, drawing and workmanship by Purchaser shall not in any way relieve Vendor from his responsibility.
- (4) When any trouble occurs at Purchaser's construction site owing to Vendor's mal-design or mal-fabrication, it shall be repaired or replaced at Vendor's cost.
- (5) When performance guarantees are not met, the necessary changes or replacements shall be by Vendor's own cost.

8 SPECIAL REQUIREMENT

When submission the proposal, Vendor shall notify the Vendor's agent or representative in Pakistan for future maintenance, trouble shooting service and spare parts supply to the COMPANY, if available.

ATTACHMENT - 1 EQUIPMENT/MATERIALS

<u>Status</u>	<u>Item No.</u>	<u>New Tag No.</u>	<u>Reference No.</u>	<u>Remarks</u>
	1	PCV-1001	6.3.2-21.01	
	2	PCV-1002	6.3.2-21.01	
	3	PCV-3104	6.3.2-21.02	

ATTACHMENT - 2 SCOPE OF WORK AND SUPPLY

SCOPE OF WORK AND SUPPLY

1. Item includes in the vendor's scope of supply/work; the following, but not limited to, are applicable for all items listed in ATTACHMENT-1.
 - (1) All required nameplates.
 - (2) Shop-fabrication including all necessary materials and consumables.
 - (3) Witness, shop test and inspection including materials.
 - (4) All required reinforcements, skids and packing for shipping to jobsite
 - (5) Surface preparation and painting plus supply of touch-up paints.
 - (6) Preparation of all required documents.
 - (7) Obtaining all statutory approvals in the country of origin.

Submission of documents shall be in Between Vendor and Purchaser.

	Proposal	For Approval		As-Built	
	Electronic File	After P. O.	Electronic File	Electronic File	No. of Prints (Note1)
SHIPPING INFORMATION					
001 Net weight, gross weight and measurement	Yes	22W	Yes	Yes	
002 Packing, knockdown and transportation procedure	–	22W	Yes	Yes	
003 Long term storage procedure	–	–	–	–	
LIST & SCHEDULE					
004 Construction/Start-up/Capital spare parts list	Yes	20W	Yes	Yes	
005 Operational spare parts price list	Yes	20W	Yes	Yes	
006 Detail parts list	–	20W	Yes	Yes	
007 Special tool list (install/start-up/maintenance)	–	20W	Yes	Yes	
008 Sub-vendor list	–	–	–	–	
009 Anchor bolt/erection bolt list	–	–	–	–	
010 Equipment bill of material	–	18W	Yes	Yes	
011 Document and drawing list	–	–	–	–	
SPECIFICATIONS					
012 Completed data sheets	Yes	08W	Yes	Yes	
013 Performance curve	–	–	–	–	
014 Weights	–	–	–	–	
015 Calibration curve	–	–	–	–	
016 Instrument air consumption	–	–	–	–	
017 Material specifications	–	–	–	–	
GENERAL DRAWINGS					
018 Dimensional drawing/cross section details	Yes	12W	Yes	Yes	
019 Pneumatic hook-up drawings	–	-	-	-	

	Proposal	For Approval		As-Built	
	Electronic File	After P. O.	Electronic File	Electronic File	No. of Prints
CALCULATIONS AND STUDY REPORTS					
020 Sizing calculations	Yes	08W	Yes	Yes	
QUALITY MANAGEMENT					
021 Corporate Quality Manual	Yes	–	–	–	
022 Quality Plan	–	–	–	–	
TEST AND INSPECTIONS					
023. Inspection and Test Plan	–	–	–	–	
024. NDE Procedure	–	–	–	–	
025. NDE Operator/Examiner Qualification List	–	–	–	–	
026. PMI Procedure including Operator Qualification	–	–	–	–	
027 Function Test Procedure	–	06W	Yes	Yes	
WELDING/BRAZING					
028. Welding Procedure Specification (WPS)	–	06W	Yes	Yes	
029. Welding Procedure Qualification Record (PQR)	–	–	–	–	
030. PWHT Procedure	–	–	–	–	
MANUFACTURING DATA RECORD (MDR)					
031. MDR Index	–	–	–	–	
032. MDR				–	–
PAINT					
033. Paint specifications	–	–	–	–	
034. Rust prevention procedure	–	06W	Yes	Yes	
INSTALL/OPER/MAINT INSTRUCTIONS					
035. IOM manuals		Note-2	Yes	Note-5	2
036. Trouble shooting and fault isolation procedures					
037. Commissioning check list		–	–	–	
OTHERS					
		Note-4	Yes	–	

W=Week, M=Month,

Note-1: Hard copies in binder.

Note-2: Not later than one (1) month prior or delivery

Note-3: Not later than two (2) weeks after delivery

Note-4: Not later than one (1) week after the meetings

Note-5: 2 sets of CD-ROM's are required

Note-6: To be included in Datasheet

Note-7: To be included in Dimensional drawing

Note-8: To be included in welding procedure

GENERAL INSPECTION REQUIREMENTS

- 1.1 The inspection and test shall be performed in accordance with the Applicable documents listed in this Requisition.
- 1.2 The vendor shall submit "Inspection and Test Procedure" and "Inspection and Test Plan" showing the details, timing and acceptance criteria of inspection and test to the Purchaser for approval.
- 1.3 The Purchaser, COMPANY and/or third party reserve the right to witness or audit the vendor's quality control at the vendor's facilities when necessary.
- 1.4 At each witness inspection the vendor shall submit to the Purchaser COMPANY and/or third party's inspector the inspection and test record/certificate for both witnessed and non-witnessed at his visit.
- 1.5 When the witnessed inspection and test by the Purchaser and/or COMPANY are required, the vendor shall note the followings:
 - (a) The vendor shall provide all test equipment and facilities required for the witness inspection and test at his cost.
 - (b) The vendor shall furnish the suitable number of assistants to execute the inspection and/or test at his cost.
- 1.6 Conflicts between this specification and the vendor's specification/purchaser's requisition/Purchaser's specification should be resolved by applying the latest revision of the latter with the precedence.
- 1.7 The vendor shall submit the final "Test Report" confirming that the material/equipment is inspected and tested in accordance with and meet the relevant requisition and applicable documents.
- 1.8 These witnessed inspections and document review do not relieve the vendor of his responsibility.
- 1.9 Shop witness shall be carried out in accordance with the documents approved by Purchaser. Any witness/testing/inspection without the approved document shall be invalid.

SCOPE OF INSPECTION

- 2.1 The table summarizes the minimum requirements of the inspection and test items to be witnessed by the Purchaser, COMPANY and/or third party.
- 2.2 The vendor shall conduct all inspection and test by himself and prepare the record or certificate for the Purchaser, COMPANY and/or third party's review, when requested.
- 2.3 If any non-conformance is found during witnessing, extent of inspection may be adjusted at the discretion of the Purchaser.
- 2.4 The code inspection is provided by the Statutory Inspection Authority. The vendor shall be responsible for all approvals & co ordinations.

ABBREVIATION

- H (Hold point) : Vendor is requested to notify purchaser of this inspection/test activity in accordance with ATTACHMENT-5 and Vendor is not allowed to proceed with the test/inspection unless a written release is issued by the purchaser.
- W (Witness point) : Vendor is requested to notify purchaser of this inspection/test activity in accordance with ATTACHMENT-5 and Vendor can proceed with the test/ inspection when the purchaser's inspector is not present at the notified time.
- IW (Initial witness) : Vendor is requested to notify the purchaser of the initial inspection date/time. Vendor can proceed with the test/ inspection when the purchaser's inspector is not present at the notified time. Subsequent test/ inspection will not be witnessed unless any deficiencies are found at the initial inspection.
- M (Monitoring) : Vendor is not requested to notify the purchaser. The purchaser's inspector will monitor the test/ inspection during his visit or periodical inspection.
- R (Document review): Vendor is requested to provide the purchaser with certificates, reports and records as applicable for review and confirmation.
- OR (Official record) : Vendor is requested to provide the official records to be compiled into Manufacturing Data Record (MDR)
- IR (Internal record) : Vendor is requested to provide the records for the purchaser's inspector to verify the quality.

CATEGORY GENERAL

INSPECTION REQUIREMENT/CHECK ITEMS	WITNESSED/REVIEW BY			MFR'S	REMARKS/ACCEPTANCE CRITERIA
	Vendor	Contractor	Compan	RECORD/	
CERTIFICATE					
1.Electrical					
1.1 Electrical Certificate Review	-	-	-	-	
2. Painting Inspection					
2.1 Painting Inspection	-	-	-	-	
3. Preparation for Shipment					
3.1 Preservation	-	-	-	-	
3.2 Packing / Marking (Name plate check)	-	-	R	IR	
3.3 Check of Accessories and Spare Parts	H	W	R	IR	
4. Dimensional and Visual Inspection	H	W	R	-	
5. Function test or calibration certificate review	H	R	R		
6. Final Inspection	-	-	-	-	
7.Confirmation of Completion for All Required Test and Inspection (IRC Issuance)	H	W	R	-	

CATEGORY VALVE

INSPECTION REQUIREMENT/CHECK ITEMS	WITNESSED/REVIEW BY			MFR'S	REMARKS/ACCEPTANCE CRITERIA
	VENDOR	PURCHASER	OWNER	RECORD/ CERTIFICATE	
1. Material Inspection					
1.1 Mill Certificates (Chemical and Mechanical Property)	-	-	R	-	
1.2 Non destructive Examination	-	-	R	IR	
2. Valve Inspection					
2.1 Pressure Test for Body	H	IW	R	IR	
2.2 Seat Leakage Test	H	W	R	IR	
2.3 Tightness Test	H	W	R	IR	
3. Assembly Inspection					
3.1 Function Test	H	W	W	OR	
4. Dimensional and Visual Inspection	-	-	R	IR	