

**MATERIAL REQUISITION  
FOR  
CENTRIFUGAL PUMPS**

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## 1. DEFENITION

### COMPANY

Means NIOC (**N**ational **I**ranian **O**il **C**ompany) or POGC (**P**ars **O**il & **G**as **C**ompany) and include its representatives, successors and permitted assigns

### CONTRACTOR

Means the PetroSina Aria Company and includes its representatives, successors and permitted assigns.

### PURCHASER

Means CONTRACTOR or its representative who issues Purchase Order to VENDOR under the name of COMPANY /CONTRACTOR.

### VENDOR/SUPPLIER

Means any vendor/supplier who will supply equipment, materials etc. under Purchase Order for SP 22 &24 Project.

Please develop quotation for Purchase of following equipment and/or materials in strict accordance with conditions stated in this Requisition and any attached documents. Exceptions, deviations and alternatives will be valid only if approved in writing by PURCHASER. Articles marked with "X" hereunder are applied as conditions of this Requisition.

## 2. EQUIPMENT AND/OR MATERIALS INQUIRED:

No.	Item No.	Sets	Service Name
1.	149-P-103ABC	3	Treated Water Distribution Pumps
2.	149-P-105	1	Water Backup Diesel Pump
3.	149-P-106AB	2	Sea Water Pumps
4.			
	<b>TOTAL</b>		

## 3. DOCUMENTS ATTACHED TO THIS REQUISITION

The following documents shall form an integral part of this Requisition. If any difference and/or conflicts between the documents attached in this Requisition should occur, the most stringent requirements shall govern. Any ambiguity or conflict shall be referred to the Purchaser and Approved solution shall be applied.

[ X ] Drawings

**Table 1: List of Drawings**

No.	Drawing No.	Rev.	Drawing Title
1	DW-2224-149-0060-2001	0	JETTY OVERALL PLOT PLAN
2	DW-2224-120-1636-1009	1	ONSHORE FACILITIES TYPICAL MOTOR STARTER AND CONTROL DIAGRAM
3	PID-2224-149-0030-0016	1	WATER INTAKE PACKAGE PIPING AND INSTRUMENTATION DIAGRAM
4	PID-2224-149-0030-0017	1	WATER TREATMENT PACKAGE PIPING AND INSTRUMENTATION DIAGRAM
5	PID-2224-149-0030-0018	1	TREATED WATER STORAGE AND DISTRIBUTION PIPING AND INSTRUMENTATION DIAGRAM

[ X ] Process Data Sheets for Equipment and/or Materials Inquired

**Table 2: List of Process Data Sheets**

No.	Document No.	Rev	Item No.	Service Name
1	SPP-2224-149-P-103	0	149-P-103 A/B/C	TREATED WATER DISTRIBUTION PUMPS
2	SPP-2224-149-P-105	0	149-P-105	WATER BACKUP DIESEL PUMP
3	SPP-2224-149-P-106	0	149-P-106 A/B	SEA WATER PUMPS TO WATER TREATMENT PACKAGE
4				

[ X ] Mechanical Data Sheets for Equipment and/or Materials Inquired

**Table 3: List of Mechanical Data Sheets**

No.	Document No.	Rev	Item No.	Service Name
1	SP-2224-149-P-103A/B/C-0001	0	149-P-103 A/B/C	TREATED WATER DISTRIBUTION PUMPS
2	SP-2224-149-P-105-0001	0	149-P-105	WATER BACKUP DIESEL PUMP
3	SP-2224-149-P-106A/B-0001	0	149-P-106 A/B	SEA WATER PUMPS TO WATER TREATMENT PACKAGE
4				

**NOTE:**

1)-Mechanical data sheets shall be fully filled-in during bid stage by supplier, otherwise supplier quotation will not be considered.

2)-Deviation per specification (RP'S), if any, shall be submitted during bid stage.

[ X ] Applicable Engineering Specifications and/or Documents

**Table 4: List of Applicable Engineering Specifications and/or Documents**

No	Document No	Rev.	Document Title
1	DB-2224-999-P332-204	1	Basic Engineering Design Data for Onshore Facilities
2	DB-2224-999-P332-203	1	List of Applicable Codes & Industry Standards
3	RP-2224-999-0910-001	1	Mechanical and Rotating Machines – Process Centrifugal Pumps
4	RP-2224-999-0910-003	1	Mechanical Seals Selection
5	RP-2224-999-1000-001	1	Mechanical and Rotating Machines - Design of Power Margins
6	RP-2224-999-1000-002	1	Rotating Machines - Inspection and Shop Tests
7	RP-2224-999-1000-003	1	Mechanical and Rotating Machines- Drawings and Data to be supplied

No	Document No	Rev.	Document Title
8	RP-2224-999-1000-004	1	Job Specification for Safeguarding of machinery
9	RP-2224-999-1140-001	1	Mechanical and Rotating Machines Diesel Engines Specification
10	RP-2224-999-6000-001	2	Acoustic Job Specification
11	RP-2224-999-6200-009	3	Noise Control Job Specification
12	RP-2224-999-1511-021	3	Instrument Control and Safeguarding Philosophy
13	RP-2224-999-1511-031	2	Instrument Identification and Numbering
14	RP-2224-999-1511-032	2	Instrument Design Specification
15	RP-2224-999-1511-061	3	Instrument Installation
16	RP-2224-999-1511-062	4	Instrument Cables
17	RP-2224-999-1511-064	1	Earthing Principles
18	RP-2224-999-1538-001	1	Typical Instrument Hook-up Sketches
19	RP-2224-999-1630-007	2	Electric Design Criteria
20	RP-2224-999-1630-027	0	Squirrel Cage Induction Motors
21	RP-2224-999-1630-029	1	Electrical Cables
22	RP-2224-999-1782-001	3	Civil Design Criteria
23	RP-2224-999-6300-001	3	Welding of Pressure Containing Piping and Equipment
24	RP-2224-999-6600-001	10	Shop and Field Painting Specification
25	DB-2224-999-7600-0407	1	Instruction for Packing, Marking and Shipping
26	RP-2224-999-1783-001	2	Reinforced Concrete Mateial and Construction
27	2224-ONS-PO-IP-0001	0	Material and Equipment Inspection Procedure
28	PP-2224-999-7400-0001	0	Instruction to vendor documentation
29	SP-2224-999-1630-142	2	Datasheet for L.V. Motors (typical)
30	SP-2224-999-1630-122	1	Datasheet for M.V. Motors (typical)
31	----	8	Approved vendor list
32	----	-	Blank SPILR form
33	PP-2224-999-7400-0002	0	Bidding Instructions and Attachments
34	PP-2224-999-7400-0003	0	Deviation and Exception to Specification
35	SPP-2224-999-6200-006	2	Noise Limit For Pumps

#### 4. DEVIATIONS FROM PURCHASER'S REQUIREMENTS

VENDOR's quotation shall be in strict conformity with PURCHASER's requirements. Unless exceptions, deviations or alternatives are clearly identified or listed in VENDOR's quotation, the requirements and conditions in this Requisition shall be deemed to be accepted by VENDOR.

Purchaser has no responsibility to discover any deviations or alternatives entered in order parts of Vendor's proposal than the submitted deviation list. If Vendor is awarded the order, Vendor must comply with the Applicable Documents as revised only to reflect the deviations and alternatives listed and accepted by Purchaser.

## 5. SCOPE OF SUPPLY

VENDOR's quotation shall include, but not be limited to, equipment, materials specified in the following: Articles marked with "X" hereunder shall be within VENDOR's Scope of Supply.

[ X ] Pump with motor, Diesel , tanks including diesel fuel storage with the ladder (for at least 12 hours running), LCS (if required), couplings, guards (non-sparking type), shaft sealing system & all equipment, installed within the confines of base plate .

[ X ] Diesel engines shall be complete with; electric start system with 2 sets of Ni-Cd batteries, additional emergency start system, air cleaner, inlet silencer, ducting, exhaust system including silencers and stainless steel expansion joint, ducting, rain cover, spark arrestor , Governor, Anti- vibration mounts installed under the engine .

[ X ] Cooling system including cooler (if required).

[ X ] Mounting Flange/plate(s)

[ X ] Installation bolts and nuts with liners

[ ] Shim plates for shaft alignment at site

[ X ] Setting bolts/nuts & gaskets (In case of vertical pump)

[ X ] Piping, valves & fittings with its support for cooling, sealing & flushing, lubrication (if applicable) and other utility services within the confines of base plate

[ X ] utility single connection at edge of skid.

[ X ] Mating flanges with bolts, nuts and gaskets (when flanges do not conform to Purchaser's specification)

[ X ] Manifold flange connection with block valve at the edge of base plate for terminal point with Purchaser for all utility services

[ X ] Sight flow indicators shall be furnished in each cooling water outlet line

[ X ] Manifold flange connection with block valve for casing drain lines and vent lines at the edge of base plate (Note: Vent connections may be omitted if the pump is made self-venting by the arrangement of the nozzles.)

[ X ] Diesel engine gauge board, engine mounted.

[ X ] Instrumentation, including junction box

[ X ] All the required electrical and instrumentation termination junction boxes and/ or LP for connection of incoming, and all the interconnecting wiring and cable trays within the skid limits

[ X ] All fixtures such as cable glands, shrouds, etc.

[ X ] Equipment earthing by externally accessible earthing plates.

[ X ] Name plates

[ X ] Lifting lugs for installation and maintenance

[ X ] Spare Parts for erection, pre-commissioning, commissioning and start up. Any additional spares consumed during the erection, pre-commissioning, commissioning and start-up over and above those included in list shall be provided by the Vendor free of charge.

[ X ] Vendor shall establish and submit during Bid Stage for approval a detailed list of spare parts recommended for the first two (2) years of continuous operation of the plant, specifying quantities, unitary prices and schedule for delivery. These spare

parts shall be considered as optional items and the price shall be valid for SIX months after purchase order. Spare parts will be ordered with main equipment.

☒ [ X ] Special Tools for Erection and Maintenance

☒ [ X ] Touch-up paint for field repair works

Any other items not listed above which are necessary for the satisfactory design and operation of the pump shall be furnished by Vendor.

☒ [ X ] Documentation.

## **6. SCOPE OF WORK**

VENDOR's quotation shall include, but not be limited to, works specified in the following: Articles marked with "X" hereunder shall be within VENDOR's Scope of Work.

☒ [ X ] Engineering and Documentation

☒ [ X ] Manufacturing and Assembling

☒ [ X ] Piping within the Package

☒ [ X ] Performance Guarantee

☒ [ X ] Mechanical Guarantee

☒ [ X ] Sub-Vendor Coordination

☒ [ X ] Inspection and Testing at Shop.

☒ [ X ] Wiring and Tubing to Junction Box within Skid(s)(if any).

☒ [ X ] Painting (at Shop)

☐ [ ] Insulation Work, If required

☒ [ X ] Protection and Packing (export packing, rust prevention)

☒ [ X ] Transportation

☒ [ X ] Certificates or declarations of conformance (as required) of all Ex equipment

☐ [ ] Erection

☒ [ X ] Supervision for Commissioning and Start up (Per Diem. - As an option)

☒ [ X ] All Documents and Certificates for Iranian Government Approval as Required

## **7. INSPECTION AND TESTS**

Inspection and tests shall be made by Vendor in accordance with:

☒ [ X ] Requirements specified in this Requisition and/or any Engineering Specifications attached

Shop witness test shall be carried out in accordance with the documents approved by Purchaser/COMPANY. Any .witness/testing/inspection without the approved document shall be invalid.

"Manufacturing Data Record (MDR)" for Equipment shall be prepared in accordance with applicable specification and shall be completed at the final stage of inspection/test for Purchaser's inspector's review prior to shipment of items.

## **8. COORDINATION MEETING**

After the order is awarded, VENDOR shall, upon receipt of PURCHASER's notice, send a sufficient number of qualified personnel to PURCHASER's office at VENDOR's cost to hold the coordination meeting(s) according to the following schedule:

- The first : within 4 week(s) after the order, for 2 day(s) (for Kickoff meeting)  
The second : within 3 month(s) after the order, for 3 day(s) (for Pre-inspection meeting)  
The third : within      month(s) after the order, for      day(s)  
The fourth : within      month(s) after the order, for      day(s)

## **9. DUTY AND RESPONSIBILITY OF THE VENDOR SUPERVISOR**

### **9.1 General**

The Supervisor, who is dispatched to the site for the installation, start-up, inspection, repair and maintenance of the equipment supplied by the vendor, shall perform his duty for all equipment including those supplied by the vendor's subcontractor.

### **9.2 Qualification**

The Supervisor shall be sufficiently qualified to perform his duty. The vendor shall provide the resume of the expected personnel for Purchaser's approval. Purchaser has a right to reject the Supervisor proposed by the vendor and to appoint alternative personnel.

### **9.3 Duty**

The duty of the Supervisor shall be, but not limited to, as follows;

- (1) Witness the inspection of undoing the packing
  - (2) Check the dimension of the foundation
  - (3) Supervising and direction for the assembling and installation
  - (4) Supervising and direction for, and check the leveling and alignment
  - (5) Supervising and direction for, and check the connection of the main piping
  - (6) Check the performance, and adjustment of the safety device and instruments
  - (7) Supervising the preparation of the startup
  - (8) Supervising and direction for the start-up operation
  - (9) Execution of and/or supervising and direction for the assembling, disassembling, inspection and repair
  - (10) Preparation of the inspection record and the miscellaneous report
  - (11) Advice of the control for the time schedule
  - (12) Technical supervising and direction for the maintenance
-



## **9.4 Responsibility**

The vendor shall be responsible to indemnify for damages to property or for personal injuries which result from the gross negligence of the Supervisor while performing his duty.

## **10. SPECIAL NOTES AND OTHERS**

10.1 Quotation shall include the following information:

- 1) Requisition number
- 2) Firm price(s) by item
- 3) Earliest delivery date(s)
- 4) Origin of material being quoted (country, place, and name of manufacturer)
- 5) Approximate shipping weight and dimension

Un-priced quotation should be prepared to be able to meet technical evaluation only.

10.2 The order of priority of documents is the following:

- 1) Purchase Order
- 2) Data Sheets
- 3) This Requisition
- 4) Project Specification
- 5) International Codes and Standards referred to in the Specifications.

If any difference and/or conflicts between the documents listed in above should occur, the most stringent requirements shall govern. Any ambiguity or conflict shall be referred to the Purchaser and Approved solution shall be applied.

10.3 This Requisition sets out the minimum requirements for the supply and does not relieve the Vendor of his full responsibility for the design and the reliable operation of the elements supplied. Therefore the Vendor will be liable for the correct mechanical operation of any auxiliary elements involved. In the preparation of his proposal the Vendor shall fulfill all the provisions of this Requisition even if they differ from the standard supply. Whenever the Vendor cannot comply with the present Requisition for technical reasons, he shall state it in detail in the chapter of the exceptions. The Vendor shall fill-in all parts of the data sheet to allow the various proposals to be uniformly evaluated. Failing to do this, his proposal shall be considered incomplete.

10.4 No protection, paint or other filling shall be applied to the contract works before they have been inspected, tested and approved. After approval and before dispatch each part of the contract works shall be thoroughly cleaned and appropriately protected and packed in accordance with the requirements of carriers and shippers and suitably for prolonged storage. All packing cases and materials are included in the proposed price, and shall become the property of the purchaser.

10.5 Vendor shall guarantee the operation of the equipment to the specified design conditions. Vendor shall warrant the engineering, materials and workmanship of the equipment for a period of 18 months after successful start-up or 24 months after shipping whichever comes earlier. Under this warranty, all materials, parts, and

assemblies found to be defective during the guarantee period shall be replaced by Vendor. Vendor shall also, if required, supply the services of an experienced engineer to supervise the necessary repairs and replacements.

- 10.6 Preparation for Shipment Equipment shall be emptied, dried, painted and, where necessary, preserved for shipment and long term 12 months outside storage. Adequate temporary bracing for equipment and accessories shipped with the exchangers shall be provided to avoid overstressing or damage during shipping, transportation and erection, as required. All equipment shall be packed and weather protected for export. Loose parts shall be boxed and shipped along with an itemized packing list with the main assembly.
- 10.7 All documentation should be written in English language.
- 10.8 VENDOR shall submit the following Vendor Documents within 1.5 months after receiving the Letter of Intent from Purchaser:
  - 1) Master Schedule shown design, procurement, fabrication, test, painting, packing & etc.
  - 2) Vendor Print Index and Schedule (VPIS)
  - 3) General arrangement drawing showing all of dimension and support location detail
  - 4) Foundation information with loading data
  - 5) Complete unit weight dimensions drawings with support location including nozzles
- 10.9 VENDOR shall provide the following documents with delivery of equipment. Six(6) copies shall be provided inside the packing of the equipment, separately from documents, which is specified in the Vendor Documents Requirements attached in this Requisition:
  - 1) Full package of final drawings.
  - 2) Copy of all certificates
  - 3) Inspection release certificate (IRC).
  - 4) Approved packing list (Including each spare list)
  - 5) Calibrated loading data (the mentioned calibrated loading data should be required at lifting stage for heavy equipment. And then, this document shall have a endorsement by CONSORTIUM'S own inspector or an appointed third party inspector)
- 10.10 Vendor shall provide the Copy of current certification of ISO 9001/2 or 3. When vendor does not hold ISO certification, vendor shall provide the following documents to purchaser for review
  - 1) During Equipment/ Material/ Service Procurement/ Subcontracting Stage and, in any way, before Purchase Order:
    - Vendor Management commitment letter to Quality
    - Detailed Organization Chart of Vendor and Job Ticket scope of work and responsibilities of every position of that chart.
    - Name and CV of Personnel for the position shown on the Chart with indication i

f on pay roll or from subsidiary or contracted personnel.

- List of working procedure to be issued for the Job at Order / Contractor Stage in order to be as close as possible to ISO 9001/2 or 3 and covering all item of the application Norm.

Note: This list will include as far as possible the existing applicable Vendor working procedure and those to be issued for the job in order to fulfill the applicable Norm.

- Issue of Vendor Management Audit Program

2) During Equipment / Material Service Purchase Order implementation stage:

- Issue of the Job QA plan
- Issue of working procedures for PURCHASER and COMPANY review within one month after order.
- Implementation of the working procedure during order execution
- Performance of vendor Management Audit Program

Note: Those requirements are applicable for Vendor for which Certification is no more valid and / or under process of certification.

10.11 Vendor shall provide the Copy of vendor quality manual / quality plan. Quality Plan shall be subject to presentation, discuss and clarification with purchaser, and Company as necessary, prior to incorporation into contract.

## 11. Changes

### 11.1 Change Order

The Purchaser / Company reserve the right, from time to time, to make changes in design, quality and other technical requirements throughout the Project duration.

### 11.2 No Change

Any change arising from the following, but not limited to, shall not create any variation order.

- Compliance with safety or Operability requirements.
- Error or omission on the part of the Vendor
- Any change arisen from the failure in verification by the Vendor.

## 12. VENDOR DOCUMENT REQUIREMENT

All documents and drawings shall be submitted as mentioned in following table:

NO.	DOCUMENTS TITLE	WITH BID	FOR APPROVAL		FOR FINAL		FINAL DOCUMENTS	
		COPIES (2)	COPIES NOTE (3)	DAYS NOTE (4)	COPIES NOTE (3)	DAYS NOTE (5)	COPIES NOTE (6)	WEEKS NOTE (7)
1	Vendor Print Index and Schedule (VPIS) (8)		V	14	V	30	V	
2	Monthly Progress Report including:		V	Monthly				

NO.	DOCUMENTS TITLE	WITH BID	FOR APPROVAL		FOR FINAL		FINAL DOCUMENTS	
		COPIES (2)	COPIES NOTE (3)	DAYS NOTE (4)	COPIES NOTE (3)	DAYS NOTE (5)	COPIES NOTE (6)	WEEKS NOTE (7)
	- Updated Vendor Print Index and Schedule (VPIS) :							
	- Sub Order Status Report							
3	Engineering, Fabrication and Delivery Schedule		V	Monthly				
4	Pump data sheets	V	V	30	V	30	V	
5	Noise data sheets	V	V	60	V	30	V	
6	Performance curves	V	V	30	V	30	V	
7	Dimensional outline drawing including: (8)	V	V	30	V	30	V	
	- The size, rating and location of all customer connections							
	- Overall loading and handling weights							
	- Overall dimensions, and maintenance and dismantling clearances							
	- Shaft centerline height							
	- Dimensions of base plates complete with diameters, number, and locations of bolt holes and the thickness of sections through which the bolts must pass							
	- Grouting details							
	- Forces and moments for suction and discharge nozzles							
	- Center of gravity and lifting points							
	- Shaft end separation and alignment data							
	- Direction of rotation							
	- Winterization, tropicalization, and/or noise attenuation details, when required							
8	Cross sectional drawings and BOM		V	30	V	30	V	
9	Shaft seal drawing and BOM		V	90	V	30	V	
10	Shaft coupling assembly drawing and BOM including allowable misalignment tolerances and the style of the coupling guard		V	90	V	30	V	
11	Primary and auxiliary sealing schematics and BOM including seal fluid, fluid flows, pressure, pipe and valve sizes, instrumentation, and orifice sizes		V	60	V	30	V	
12	Cooling or heating schematic and BOM including cooling or heating media, fluid flows, pressure, pipe and valve sizes, instrumentation, and orifices sizes		V	60	V	30	V	
13	Lube oil schematic and BOM (If applicable)		V	60	V	30	V	
14	Lube oil system arrangement drawing including size, rating, and location of all customer connections (If applicable)		V	60	V	30	V	
15	Electrical and instrumentation schematics, wiring diagrams, and BOM (If applicable)		V	60	V	30	V	
16	LCS and/or gauge board drawing and list of components (If applicable)		V	60	V	30	V	
17	Vibration analysis data		V	60	V	30	V	
18	Damped unbalanced response analysis (If applicable)		V	60	V	30	V	
19	Lateral critical speed analysis (for multistage pumps)		V	60	V	30	V	

NO.	DOCUMENTS TITLE	WITH BID	FOR APPROVAL		FOR FINAL		FINAL DOCUMENTS	
		COPIES (2)	COPIES NOTE (3)	DAYS NOTE (4)	COPIES NOTE (3)	DAYS NOTE (5)	COPIES NOTE (6)	WEEKS NOTE (7)
	only)							
20	Torsional critical speed analysis (If applicable)		V	60	V	30	V	
21	Driver data sheets		V	60	V	30	V	
22	Dimensional outline drawing for driver and auxiliary equipment		V	60	V	30	V	
23	Terminal box arrangement drawing and terminal details		V	60	V	30	V	
24	Motor power / Torque versus speed / current / power factor curves		V	60	V	30	V	
25	Certificates of conformity for electrical apparatus for use in hazardous area		V	90	V	30	V	
26	Nameplate Details (for main equipment & auxiliaries)	V	V	90	V	30	V	
27	Instrument list		V	30	V	30	V	
28	Instrument data sheets		V	60	V	30	V	
29	List of alarms and trips with set point		V	60	V	30	V	
30	Instrument drawing		V	60	V	30	V	
31	Certificates of conformity for instruments for use in hazardous area		V	90	V	30	V	
32	Quality Control Plan (Q.C.P.)	V	V	90	V	30	V	
33	Inspection and Test Procedure with Plan		V	90	V	30	V	
34	Procedure for Special and Optional Tests include:		V	90	V	30	V	
	- Mechanical running test procedure							
	- Performance test procedure							
	- Balancing test procedure							
	- Hydrostatic Test Procedure for Pressure Containing Parts							
35	Painting procedure / schedule		V	90	V	30	V	
36	Rust prevention & packing plan		V	90	V	30	V	
37	WPS/PQR with welding map / qualified welder list & records		V	90	V	30	V	
38	Welding Procedures		V	90	V	30	V	
39	Lining / Coating procedure		V	90	V	30	V	
40	Proposed heat treatment procedure / plan		V	90	V	30	V	
41	N.D.E Plan		V	90	V	30	V	
42	P.M.I Procedure with plan		V	90	V	30	V	
43	Inspection & Test Reports						V	
	- Certified material test reports with material list							
	- N.D.E Report							
	- Mechanical running test report							
	- Performance test report							
	- Balancing test report							
	- Noise test report							
	- Seal test report							
	- Control panel test report (If provided)							

NO.	DOCUMENTS TITLE	WITH BID	FOR APPROVAL		FOR FINAL		FINAL DOCUMENTS	
		COPIES (2)	COPIES NOTE (3)	DAYS NOTE (4)	COPIES NOTE (3)	DAYS NOTE (5)	COPIES NOTE (6)	WEEKS NOTE (7)
	- Lining / Coating inspection report							
	- Dimensional inspection report							
	- Heat treatment record with chart / hardness test report							
	- Pressure test certificate (Hydro. / Pneum.)							
	- Inspection & Test tool calibration certificate							
	- Authorized certificates of explosion proof type equipment							
	- Driver test & characteristic report							
	- Name plate rubbing sheet							
	- Rust prevention / painting inspection report							
44	Bill of Materials (BOM) for insulation & steam trace (If any)		V	90	V	30	V	
45	Lubricant List		V	120	V	30	V	
46	Utility Consumption List	V	V	60	V	30	V	
47	Electric Load List	V	V	60	V	30	V	
48	Sub-Vendor List	V	V	30	V	30	V	
49	Special Tools List	V	V	90	V	30	V	
50	Spare Parts List for Erection & Commissioning	V	V	90	V	30	V	
51	Spare Parts List for 2 Years Normal Operation		V	90	V	30	V	
52	Catalogues	V						
53	Deviation and Clarification List (If required)	V						
54	Reference (Experience) list	V						
55	Copy of Quality System Certificate (Certification for ISO 9001/2 or 3)	V						
56	Vendor's Quality Plan	V						
57	Packing List		V	2 wks < Ship			V	
58	Installation Manual		V	4M < Ship			V	
59	Operation and Maintenance Manual		V	2M < Ship			V	
60	Storage and Preservation at site Procedure			2M < Ship			V	

**NOTES:**

1. The Vendor shall submit his drawings and data marked with "V".
2. Electronic Editable file to be submitted.
3. Electronic Editable file to be submitted.
4. The vendor shall submit the vendor prints within each stipulated a solar days (or weeks) after the placement of purchase order or Letter of Intent (LOI), which is earlier. The vendor shall submit the revised vendor prints within two weeks after receipt of the purchaser's commented data & drawings, up to the Certified Final.
5. Starting from reception of documentation, without any comments from Purchaser
6. Fifteen (15) Hard copies and editable electronic file each to be submitted.
7. Due date for Final documents should be within 2 weeks after Final Inspection & test Completion.
8. First issue of the document is subjected to the release of payment milestone as per Purchaser Order.
9. The Vendor shall submit the Vendor Data Book, in accordance with Job specification No. PP-2224-999-7400-0001, "Instruction to vendor documentation".