

VENDOR DATA REQUIREMENTS FOR GAS TURBINE DRIVEN CENTRIFUGAL COMPRESSOR

A	18-APR-2019	Issued with MR	PS	SR	PKS
Rev. No.	Date	Purpose	Prepared by	Checked by	Approved by

VENDOR DATA REQUIREMENTS

The following drawings/documents marked "✓" shall be furnished by the bidder.

S. N O.	DESCRIPTION	WITH BID	POST ORDER			REMARKS
			FOR REVIEW	FOR RECORD	WITH DATA BOOK (FINAL)	
1.	Drawing and Document Schedule		✓		✓	
2.	Piping and Instrument Diagram		✓		✓	
3.	Instrument Index			✓	✓	
4.	Sub-Vendor List for Instruments and accessories		✓		✓	
5.	Utility requirements	✓		✓		
6.	Level Sketches / Nozzle Elevations for level Instrument			✓		
7.	Purchase Requisition (Note 2)		✓		✓	1. For Record Also. 2. Review Only for Critical items like PLC, Anti-surge controller, Machine Monitoring System, Control valve, On-off valves, Pressure Safety Valve, self actuated control valves. Others are for Records only. 3. Documents other than those identified for review by Client/ EIL shall be submitted for record.
8.	Functional schematic			✓	✓	
9.	UCP PLC Logic in I.S.A format along with description of all interlocks and sequence of operation		✓		✓	
10.	Instrument I/O list from Interconnecting I/Os between UCP & Station common facilities PLC.			✓	✓	
11.	GA & wiring drawing of Unit control Panel.			✓	✓	
12.	Graphic display drawings			✓	✓	
13.	Instrument loop drawings		✓		✓	
14.	Serial mapping list with tag number wise MODBUS address for UCP PLC.			✓	✓	
15.	System configuration diagram/Topology diagram of complete Integrated Gas turbine compressor control system including Anti surge controllers & performance /Master controller, Load sharing controller if applicable), Vibration, displacement & temperature monitoring display units etc		✓		✓	
16.	Power Supply Distribution			✓	✓	
17.	Instrument Cable Schedule			✓	✓	

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18.	Air supply distribution drawing from instrument air header to instruments.			✓	✓	
19.	Bill of material			✓	✓	
20.	Instrument Installation drawing which shall indicate the requirement of various installation materials required for installation of each instrument.			✓	✓	
21.	Instrumentation/ Electrical interface details			✓		
22.	Grounding details for Instrument / Cabinet			✓	✓	
23.	Special test equipment/ tool requirement for maintenance			✓	✓	
24.	Spare part list for 2 years operation	✓		✓	✓	
25.	Spare part list for Start up, Commissioning & Consumables			✓	✓	
26.	Spare part list for Mandatory Spares		✓		✓	
27.	Inspection and test procedure		✓		✓	
28.	Complete catalogues with part list for all vendor supplied instruments, control, etc.				✓	
29.	Installation, operation, Programming and maintenance manuals				✓	
30.	Loop checking / calibration report				✓	
31.	Certificates (Statutory/ Inspection/ Calibration test)			✓	✓	

S. N O.	DESCRIPTION	WITH BID	POST ORDER			REMARKS
			FOR REVIEW	FOR RECORD	WITH DATA BOOK (FINAL)	
1.	Factory testing and acceptance procedure for system oriented items		✓		✓	
2.	Point data base for UCP PLC			✓	✓	
3.	SAT Procedure		✓		✓	

Notes :

1. "TICK" denotes applicability.
2. Post order, drawing / document review shall commence only after approval of Document Control Index (DCI).
3. All post order documents shall be submitted / approved through EIL eDMS portal.
4. Final documentation shall be submitted in hard copy (Six prints) and soft (two CDs/DVDs) in addition to submission through EIL eDMS.

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5. Refer - 6-78-0001: Specification for quality management system from Bidders.
 6. Refer - 6-78-0002: Specification for documentation requirements from Contractors.
 7. Refer - 6-78-0003: Specification for documentation requirement from Suppliers.
 8. All drawings & documents shall be submitted in A4 or A3 paper sizes. Documents in higher paper size shall be submitted in exceptional circumstances or as indicated in the MR/Tender.
 9. Post order- The schedule of drawing / data submission shall be mutually agreed between EIL & the bidder / contractor / supplier during finalization of Document Control Index (DCI).
 10. "@" indicates submission of documents to Inspection Agency.
 11. Bill of Material shall form part of the respective drawing.
 12. Documents to be prepared and provided in SPI (Smart Plant Instrumentation 2009 Service Pack 4 Version: 09.00.01.0117).
 13. Soft copies of all the documents in Autocad /MS Word/MS Excel format shall be provided for loading in owner's documentation system.
 14. Bidder to note that the system engineering documents are required for further engineering and site work. These documents shall be, positively, provided as per mutually agreed schedule after order.
 15. Any other document/drawing not listed above but required to carry out the engineering and for integration of other equipment packages sub-ordered by contractor shall also be prepared and furnished to Client / EIL.
 16. All instrument document/drawing shall be submitted after issue of P&IDs. The submission of document / drawing is sequenced in such a way that submitted document /drawing is neither dependent nor changed due to drawing / document yet to be submitted. Document/ drawing submission schedule shall be made accordingly.
 17. Bidder shall prepare & submit the as built drawings / documents after commissioning. All the drawings/documents listed shall be converted into "As Built" after commissioning of Project. "As Built" shall include documents generated by Contractor & documents generated/ submitted by various Sub-vendors.
 18. a) Review Only for Critical items like Analyser, Control valve On-off valves, Pressure Safety Valve, self actuated control valves. Others are for Records only.
b) Documents other than those identified for review by Client/ EIL shall be submitted for record.