

Objective: Obtain quotes to manufacture parts mentioned in BOM, procure standard parts and assemble as described in the work scope to conduct the suction test at IIT Madras

Work scope:

Quotations are requested for 1 prototype in assembled condition per following requirement.

Sl. No.	Assembly or Sub-assembly	Required Date	Quantity
1	Suction Test Assembly	1 months from date of PO	1 assembly

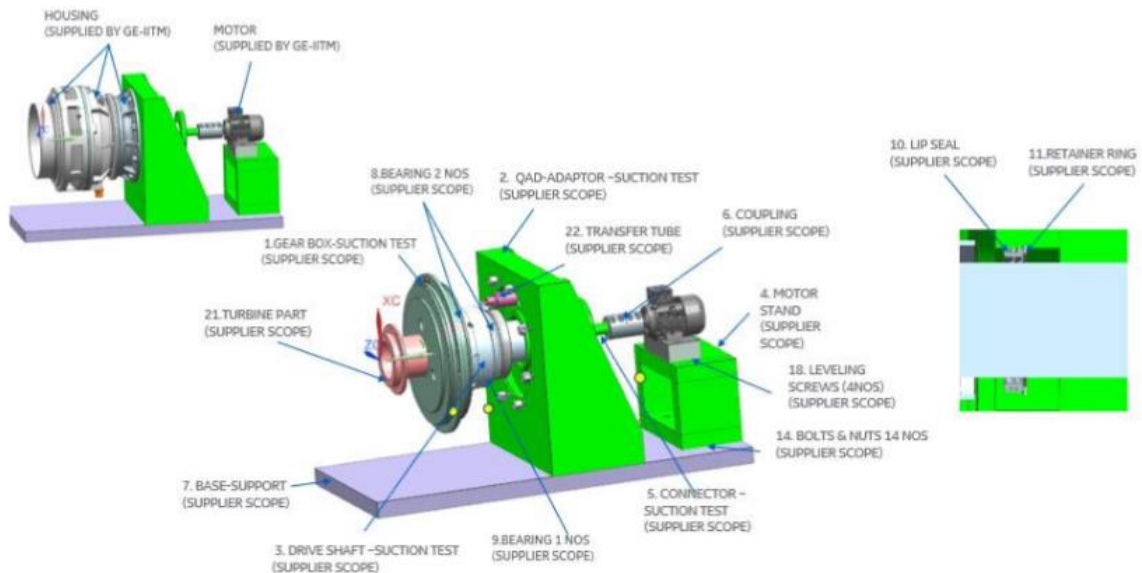
Inputs provided by IIT Madras and GE Project team:

1. Geometric solid models
2. Preliminary drawings
3. Bill of Materials
4. Standard hardware selection guide
5. Assembly process and instructions

Above items will be provided you through box folder.

Supplier Scope will be as follows:

1. Manufacture hardware as per BoM using drawings and geometric solid models provided by GE and IIT Madras project team. Schematic parts and overall dimensions are as shown below image and BOM



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SL NO.	PART NAME	SPEC/PART APPROXIMATE DIMENSIONS IN INCHES	QTY	RESPONSIBILITY	MATERIAL
1	GEAR BOX-SUCTION TEST	DIA 10 X 4.35	1	SUPPLIER	EN 36C / SS316
2	QAD-ADAPTOR -SUCTION TEST	12.2X12X1	1	SUPPLIER	EN 36C / SS316
3	DRIVE SHAFT -SUCTION TEST	DIA 2.8X8.5	1	SUPPLIER	EN 36C / SS316
4	MOTOR STAND	8 X 5.4 X 4	1	SUPPLIER	EN 36C / SS316
5	CONNECTOR -SUCTION TEST	DIA 2.0 X 3.45	1	SUPPLIER	EN 36C / SS316
6	COUPLING	61005K355	1	SUPPLIER	STANDARD PART
7	BASE - SUPPORT	25 X 12 X 1	1	SUPPLIER	EN 36C / SS316
8	BEARING 1 & 2 SUCTION TEST	71817_ACD	2	SUPPLIER	STANDARD PAR
9	BEARING 3 SUCTION TEST	NU1013	1	SUPPLIER	STANDARD PART
10	LIP SEAL	2122N210	1	SUPPLIER	STANDARD PAR
11	RETAINING RING	WH237	1	SUPPLIER	STANDARD PART
12	HEXAGONAL BOLT	3/8 INCH DIA LENGTH 2.5"	8	SUPPLIER	STANDARD PART
13	HEXAGONAL NUT	3/8 INCH DIA	8	SUPPLIER	STANDARD PART
14	HEXAGONAL BOLT	1/2 INCH DIA LENGTH 2.1"	14	SUPPLIER	STANDARD PART
15	HEXAGONAL NUT	1/2 INCH DIA	14	SUPPLIER	STANDARD PART
16	HEXAGONAL BOLT	1/4 INCH DIA LENGTH 1.5"	8	SUPPLIER	STANDARD PART
17	HEXAGONAL NUT	1/4 INCH DIA	4	SUPPLIER	STANDARD PART
18	LEVELING SCREWS	6221K921	4	SUPPLIER	STANDARD PART
19	MOUNTING FASTENERS BOLT/LOCK NUT	1/8 INCH DIA	16	SUPPLIER	STANDARD PART
20	BOLT TURBINE	1/4 INCH DIA LENGTH .5"	4	SUPPLIER	STANDARD PART
21	TURBINE PART	DIA 4.4 x 2.5	1	SUPPLIER	EN 36C / SS316
22	TRANSFER TUBE	DIA 1 X 2.6	1	SUPPLIER	EN 36C / SS316

Following items will be provide by GE and IIT Madras project team.

1. Turbine seal

Supplier Scope will be as follows:

1. Manufacture hardware as per BoM using drawings and geometric solid models provided by GE and IIT Madras project team.
2. Supplier can propose alternate manufacturing processes and design changes for producibility improvement.
3. Part inspection reports to be submitted.
4. Procure standard hardware:
 - a. Bolts
 - b. Nuts
 - c. Bearings
 - d. Lip seal
 - e. Levelling Screws
 - f. Design requirements of standard hardware will be provided in terms of standard hardware selection guide. Alternate hardware meeting the requirement will be considered.
5. Assembly operations to take place in clean environment using parts manufactured by supplier, standard hardware procured, and other hardware provided by GE and IIT madras team.
6. Assembly process to create required interference fits and bolt preloads. Supplier to plan for tooling and fixtures required for assembly if any. Annexure 1 shows the locations where radial

interference is to be accomplished during the assembly process. Typical radial interference values are in the range of 0.001 to 0.002in.

7. Assembly consists of parts which will be provided by GE-IITM during the assembly.
8. Supplier is responsible for shaft alignment and to procure necessary tools
9. Suction test is conducted at IIT Madras, on need basis supplier required to visit IITM during installation