

SCOPE OF WORK

Activities

Service provider will be required to carry out the following activities.

The following activities are to be carried out on engine/stage sub systems of development stages

- Verification/incorporation of corrections/co-ordination with system & SRQA team for CC release of integration drawings
- Consolidation of fabrication request to MME team, identification of raw materials, Co-ordination with testing agencies for carrying out heat treatment, co-ordination for realization of specimen & evaluation of properties based on testing
- Preparation of RMCC, co-ordination with MME tam for supply of raw material to industry, co-ordination with QCIG team for dimension inspection, preparation of hardware clearance request to SRQA and final clearance by SRQA.
- Entry of cleared hardware, positioning the hardware in bonded stores, supply of hardware to IPRC
- Co-ordination with all agencies for preparation of stage transportation log book for each stage
- Preparation of test request for sub system test
- Preparation of monthly project progress reviews
- Preparation of action points/MOM based on the meetings, project documents
- Preparation of test article drawings, fabrication of test adaptors, preparation of test request document and coordinating with IPRC for carrying out the heat exchanger qualification test.
- Coordinating with other centres for supply to IPRC.

Brief Description of Work: -

1.1. Nature of Work

1.1.1. Activity related to development projects :

- a. Verification, updation, incorporation of SRQA comments and CC release of sub system and main assembly drawings
- b. Preparation of applicability list based on the CC released drawings
- c. Integration sequence document and updation of documents based on the review committee
- d. Generation of Bill of material for each system
- e. Preparation of fabricated hardware list of each system, compilation & identification of raw materials required for fabrication. Co-ordination with MME team for preparation of RMCC and supply to fabricator
- f. Generation of SRQA request for hardware clearance

Qualification:

1) Diploma holder

Diploma in Mechanical Engineering.

Experience:

- 1) Minimum one year experience in the specified activity.
- 2) Deputed Personnel shall possess sufficient knowledge for coordinating activities as listed in Scope of work
- 3) Working Hours:
08.45 Hrs. To 17.15 Hrs with 5 days per week. If required, work shall be arranged on holidays and beyond normal working hours at the same rate as agreed for the normal working hours

Activity list & work units

Following is the estimate of works and related work units to carry out the activities mentioned below, by the deputed personnel at Thiruvananthapuram LPSC/ISRO Centre.

ESTIMATE FOR CONTRACT DIPLOMA PERSONNEL

SI No.	Work description	Total work units (2 years)
Development projects		
1	<ul style="list-style-type: none">• Preparation, verification, updation based on SRQA comments & CC release of integration drgs• Consolidation of changes based on the integration	3850
2	<ul style="list-style-type: none">• Compilation of all hardware including sensors for each flight and generation of stage travelling log book	1135
3	<ul style="list-style-type: none">• Generation of integration elements requirement, identification & preparation of raw material list, preparation of RMCC, co-ordination with testing team for heat treatment process, preparation of specimen, testing of specimen & supply of material to MME team for fabrication at external industry	4585
4	<ul style="list-style-type: none">• Co-ordination with MME team for fabrication, QCIG for dimension inspection, disposition of NC & presentation to LSB/NCRB & co-ordination with QC team for clearance	3435
5	<ul style="list-style-type: none">• Generation of hardware clearance request, keeping the hardware in bonded stores, maintain hardware in bonded stores, issue of hardware to IPRC, packing and supply to IPRC for integration	3950
6	<ul style="list-style-type: none">• Co-ordination for preparation on integration input document, updation of documents based on the review committee, release of the documents.• Verification of integration check list/ execution documents and updating the integration drawing if required.	4085
7	<ul style="list-style-type: none">• Estimation of CG, MI & Mass of engine systems, Preparation of integration sequence	1135

8	<ul style="list-style-type: none"> • Generation of the engine configuration and fluid circuit drawings. • Preparation of sub system test request, generation of fixture drg for testing, co-ordination with IPRC for supply of hardware, verification of test results 	3895
9	<ul style="list-style-type: none"> • Support for preparation of PPT presentations for various review meetings 	3510
10	<ul style="list-style-type: none"> • Co-ordination for obtaining lot clearance for bought out items and maintenance of issue register (Rods, Sheets, Plates & Tubes.) • Verification of test certificates/inspection reports for Fasteners, rivets etc., verification of conformance with respect to Quality clauses/Specifications, Preparation of pre-delivery clearance papers to obtain QAR and stocking of items in bonded store 	3325
11	<ul style="list-style-type: none"> • Coordination for testing of Gas bottles. • Coordination for heat treatment of special materials. • Coordination surface coating activities on thermal isolators/brackets 	695
12	<ul style="list-style-type: none"> • Co-ordination for Heat exchanger & PID realization and testing • Generation of test request for sub system testing • Co-ordination for sub system test for C25 human rated stage • Co-ordination with VSSC team for supply of deliverables to other centres 	1536
13	<ul style="list-style-type: none"> • Co-ordination for preparation, correction & release of stage fluid system and fluid circuit • Generation of CC drawing for subsystem and integration, fixtures for acceptance testing • Generation of control component/ umbilical system requirement, participation in sub system test at CSC & delivery to IPRC • Preparation of BOM, procurement of materials including bought out items • Preparation for Project progress reviews, preparation of Minutes, action points, communications & documents based on the review meetings 	4800
	Estimated Man-hour requirement	39936

The service provider needs deploy **Eight Diploma personnel** on all the working days, to carry out the tasks specified above.

Work units and computation

For assessment of the quantum of work, one-hour duration of work/person is considered as a “work unit” and the total quantum of work carried out will be computed on monthly basis. The supplier shall be available for work not only during office hours but also during late office hours and on holidays if needed.