

Specification cum Compliance Matrix for Reference

A. SPECIFICATION

Sl.No.	VSSC Specification			Supplier's Compliance	
	Parameter		Value [With tolerance if any]	Complied (Y/N) [*]	Remarks
	a) The quantity of activities to be carried out in Industries within HAL-ASD, Bengaluru and within 10 km of HAL-ASD for a period of 24 months.				
Sl. No.	Work Description	Work Unit (WU)	Quantity, WU		
1	Surveillance activities within 10 km distance of HAL-ASD: <u>Component surveillance -</u> Verification of ID number, TC/RMC number, availability of approved process & QC plans, checking of key parameters using appropriate measurement tools and confirmation of the same in the inspection report (physical or online QA tool)	100 components	450		
2	Surveillance activities within 10 km distance of HAL-ASD: Machine set-up/free condition reading.	2 rings/sets	100		
3	Surveillance activities within 10 km distance of HAL-ASD: <u>Sub assembly Surveillance -</u> Visual, dimensional, list of parts, marking of defective fasteners and confirmation of inspection observations	2 sub assemblies	600		
4	Surveillance activities within 10 km distance of HAL-ASD: <u>Torque surveillance for fasteners -</u> witnessing including calibration, torque setting, checking against specification and confirmation of the same in the inspection record	500 fasteners	200		
5	Surveillance activities within 10 km distance of HAL-ASD:	1 Assembly	250		

		<u>Main Assembly surveillance -</u> Visual, dimensional, list of parts, cut-outs, fasteners and confirmation of inspection observations				
	6	Surveillance activities within 10 km distance of HAL-ASD: Pre-dispatch inspection including checklist verification	2 Nos	250		
	7	Surveillance activities within 10 km distance of HAL-ASD: <u>Surveillance for weighing -</u> including calibration verification of weighing scale	3 Nos	200		
	8	Surveillance activities within 10 km distance of HAL-ASD: <u>Surveillance for TPS -</u> Thermal coating process surveillance, thickness inspection surveillance using eddy current tester and report verification	1 No	500		
	9	Surveillance activities within 10 km distance of HAL-ASD: <u>Loading and dispatch of assembly:</u> Surveillance during loading and dispatch of assembly including list of loose parts verification	1 No	350		
	10	Surveillance activities within 10 km distance of HAL-ASD: In process surveillance during realization of composite elements	1 No	150		
	11	Surveillance activities within 10 km distance of HAL-ASD: <u>Data collection/entry for hardware -</u> support for preparation of check list/quality status/ highlights/ Minute of meeting / Quality issues etc.	2 Nos	300		
b) The quantity of activities to be carried out in Industries at distance of more than 10km and within a distance around 70km of HAL-ASD for a period of 24 months						
	Sl.	Work Description	Work Unit	Quantity,		

	No.		(WU)	WU		
	1	<p>Surveillance activities at a distance between 10 km and around 70 km from HAL-ASD:</p> <p><u>Component surveillance</u> -</p> <p>Verification of ID number, TC/RMC number, availability of approved process & QC plans, checking of key parameters using appropriate measurement tools and confirmation of the same in the inspection report (physical or online QA tool)</p>	100 components	250		
	2	<p>Surveillance activities at a distance between 10 km and around 70 km from HAL-ASD:</p> <p>Machine set-up/free condition reading</p>	2 rings/sets	500		
	3	<p>Surveillance activities at a distance between 10 km and around 70 km from HAL-ASD:</p> <p><u>Sub assembly Surveillance</u> -</p> <p>Visual, dimensional, list of parts, fasteners and confirmation of inspection observations</p>	2 sub assemblies	300		
	4	<p>Surveillance activities at a distance between 10 km and 70 km from HAL-ASD:</p> <p><u>Torque surveillance for fasteners</u> -</p> <p>witnessing including calibration, torque setting, checking against specification and confirmation of the same in the inspection record</p>	500 fasteners	150		
	5	<p>Surveillance activities at a distance between 10 km and around 70 km from HAL-ASD:</p> <p><u>Main Assembly surveillance</u> -</p> <p>Visual, dimensional, list of parts, cut-outs, fasteners and confirmation of inspection observations</p>	1 Assembly	150		
	6	<p>Surveillance activities at a distance between 10 km and around 70 km from</p>	2 Nos	120		

		HAL-ASD: Pre-dispatch inspection including checklist verification				
	7	Surveillance activities at a distance between 10 km and around 70 km from HAL-ASD: <u>Surveillance for weighing</u> including calibration verification of weighing scale	2 Nos	120		
	8	Surveillance activities at a distance between 10 km and around 70 km from HAL-ASD: <u>Loading and dispatch of assembly:</u> Surveillance during loading and dispatch of assembly including list of loose parts verification	1 No	200		
	9	Surveillance activities at a distance between 10 km and around 70 km from HAL-ASD: In process surveillance during realization of composite elements	1 No	350		

Note.

1. The estimate is based on an estimated launch manifest of 8 PSLV, 6 LVM3, 3 GSLV for 2 years.
2. One Work Unit (WU) is estimated based on the activity of one-man day (8 hours).

B. TECHNICAL REQUIREMENTS

Sl.No.	VSSC Requirement	Supplier Compliance	
		Complied (Y/N) [*]	Remarks
1.	Service Provider shall provide quality surveillance by way of physical verification; independent dimensional inspection using conventional measurement tools; data verification, compilation and report generation for aerospace structural components, sub assemblies and assemblies at different industries where the fabrication activities are going on. The nature of activities include		
	1.1. Measurement of linear dimensions (such as length, depth, width); radius/diameter; angle; profile; pitch circle		

	diameter; thickness etc.		
	1.2. Measurement of geometrical parameters like roundness, concentricity, cylindricity, flatness, straightness, perpendicularity, parallelism, position, runout etc.		
	1.3. Measurement of surface finish parameters using micrometers, comparators, gauges, roundness tester, contour tracer, height measuring equipment, surface plate, stick micrometer and other conventional instruments as applicable, according to approved inspection plan by VSSC		
	1.4. Eddy current based Thermal coating thickness measurement		
	1.5. Ultrasonic thickness gauging for metallic parts		
	1.6. Conductivity verification on aluminum components using Conductivity meter		
	1.7. Verification of drawings, process and QC plans		
	1.8. Verification of material test certificates		
	1.9. Verification of Inspection reports with log book data		
	1.10. Verification of QC automation data with log book data		
	1.11. Machine set-up witness for rings		
	1.12. Witness of measurement using co-ordinate measuring machine, video measuring equipment, profile projector		
	1.13. Usage of MS word, power point and excel and prepare/edit documents/data/presentations with good proficiency in English		
	1.14. Quality surveillance for dispatch of raw material to external vendors by verification of TC/RMC number		
	1.15. Verification of NDT (Visual, dye penetrant, radiography) data/reports for identification of defects in metals and composites		
	1.16. Quality surveillance during different manufacturing processes like surface coating, mechanical testing, heat treatment, etc.		

	1.17. Quality surveillance of composite components for sizing of prepregs, moulding, bagging, curing and demoulding of parts.		
	1.18. In process surveillance, verification of process log book, cure chart, end tags for composite parts		
	1.19. Quality surveillance of detail components, physical verification, reports verification.		
	1.20. Quality surveillance hardware verification which includes verification of Rivets by Go and No go gauges; verification of Jo-bolt for rotation, formation, gap; verification of shear bolt/bolts for gap and torque markings etc.		
	1.21. Quality surveillance of metallic and composite parts/assembly after drilling, trimming, suiting, dry assembly, bonding, as applicable		
	1.22. Finding data discrepancy in reports of detail components / sub assembly / assembly.		
	1.23. Data verification for Flight critical dimensions (FCD) by cross checking of Dimensional inspection reports - conventional, 3D CMM, Laser tracker Inspection reports.		
	1.24. Data collection for query replies from VSSC.		
	1.25. Verification of documents as per Drawing Revision w.r.t. amendment sheet.		
	1.26. Data collection/entry for hardware, support for preparation of check list/quality status/ highlights/ Minute of meeting / Quality issues.		
	1.27. Assist in preparation of check lists for verification/compliance of quality system.		
	1.28. Quality surveillance of assembly pre/post thermal painting application like process verification by log book data, TPS thickness verification		
	1.29. Assistance in physical verification of hardware before dispatch, as per PDRC check list.		
	1.30. Quality surveillance for hardware dispatch, loose items		

	verification, travelling log book verification, containerization of hardware.		
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C. COMMERCIAL CONDITIONS

Sl.No.	VSSC Specific Conditions	Supplier Compliance	
		Complied (Y/N) [*]	Remarks
1.	SERVICE PROVIDER QUALIFICATION CRITERIA		
	Service Provider should have been in the field of Inspection services for structural parts and preferably aero space components and assemblies, at least for 5 years.		
2.	PARTICIPATION IN PRE-BID MEETING		
	Interested Service Provider(s) shall attend the mandatory pre-bid meeting before participating in the tender. They are recommended to make visit to VSSC's Bangalore Work Centre to understand the complete requirements before submitting the quotation.		
3.	SERVICE PROVIDER'S RESPONSIBILITIES		
	3.1. Service Provider shall submit details regarding the qualification and experience of the work force within 1 week after order placement.		
	3.2. The service provider has to submit the details of work force, for having the relevant experience in similar area for a minimum of 1 year.		
	3.3. The Service Provider shall depute the required number of qualified workforce (minimum 6) within 2 weeks of order placement.		
	3.4. The proposed workforce meeting the aforesaid pre-requisites should be able to demonstrate their knowledge and skills in performing the activities assigned. VSSC will assess the performance and provide the feedback about the workforce efficiency. Accordingly the service provider shall suitably deploy the work force.		
	3.5. Workforce who fail to demonstrate their skill/knowledge and		

	discharge their duty effectively shall not be allowed to perform the surveillance.		
	3.6. WORKFORCE ATTRITION AND RE-QUALIFICATION		
	3.6.1. During the period of contract, in case of any qualified workforce attrition, Service Provider shall take advance actions to induct suitable workforce with expertise, duly concurred by VSSC.		
	3.6.2. Service Provider has to ensure uninterrupted inspection/surveillance services including additional requirements. In case of any absenteeism, the requisite number of personnel shall be replaced with experienced personnel duly concurred by VSSC.		
	3.7. Service provider shall ensure the work force is submitting the signed reports of completed activities to identified VSSC person.		
	3.8. Service Provider shall identify a suitable person as a focal point and alternate for all activities related to this scope of work.		
	3.9. Service Provider shall ensure that the assigned activities are completed to meet the schedule requirements by stay back/additional shift operation or by deputing additional resources.		
	3.10. Service Provider shall provide all logistics support (transportation and other incidental expenses) to its work force for the execution of work.		
	3.11. No Sub-contracting of work in any form, either part or full shall be permitted.		
	3.12. WORKFORCE		
	3.12.1. Workforce deputed shall have qualification of Degree / Diploma in Mechanical Engineering.		
	3.12.2. Workforce shall have minimum of 1 year of experience in quality surveillance / inspection, post qualification.		

	3.12.3. Sufficient workforce shall be engaged by the service provider to complete the required activities. Approximately minimum 6 workforce need to be deployed (including 1 supervisor and other inspection personnel).		
4.	VSSC's RESPONSIBILITIES		
	4.1.VSSC will provide the support for the entry of the workforce at different Work Centres.		
	4.2. The required inspection tools will be provided to the workforce.		
5.	CONTRACT TYPE AND PRICE		
	5.1. CONTRACT TYPE		
	Firm and Fixed Price. The term of the Contract is for Two years. VSSC reserves the right for		
	5.1.1. Enhancement of the quantum of work with the same rate, based on launch manifesto/organisational requirements.		
	5.1.2. Extension of the contract for a further period of one year with same contractual terms and conditions. Hence the price quoted shall be valid for 3 years.		
	5.2. PRICE		
	5.2.1. Service Provider shall quote separately along with applicable taxes for each activity. Uploading price information anywhere other than specified location will lead to rejection of the offer.		
	5.2.2. Payment shall be applicable for completed activities based on documentary evidence.		
	5.2.3. The rate quoted shall include all aspects like travelling expenses, mandatory payments as per all statutory requirements etc. No additional charges shall be payable by VSSC.		
6.	COMPARISON OF OFFERS		

	<p>6.1. This is a TWO-PART tender i.e. Techno-Commercial Bid (C1 & C2 of tender document) and Price Bid (C3 of tender document) shall be submitted separately. All technical and commercial terms and conditions shall be furnished in the Techno-Commercial Bid while price shall be indicated only in the Price Bid. Uploading price details anywhere else other than the price-bid shall lead to unconditional rejection of the tender. Please make note of the same. Tenderers are advised NOT TO UPLOAD any documents revealing the price in technical & Commercial bid other than area specified area.</p>		
	<p>6.2. Only the total value of the quote will be considered for evaluation. Individual rates for Work units will not be considered.</p>		
	<p>6.3. Technical Bids will be opened at the scheduled due date & time. No further intimation will be sent in this regard. The schedule for price bid opening shown is only indicative. Price bids will only be opened in the case of parties who have been techno-commercially accepted, the details of which will be communicated at a later stage</p>		
<p>7.</p>	<p>PAYMENT</p>		
	<p>7.1. Payment will be made every month after certification of the Service Provider's work by the VSSC persons.</p>		
	<p>7.2. The monthly bill for the workforce with work units against each activity mentioned in duly approved by DGM, QA shall be submitted to VSSC Accounts, for payment.</p>		
<p>8.</p>	<p>SECURITY</p>		
	<p>8.1. The Service Provider has to follow all the VSSC and respective industry security instructions applicable for personnel & processes prevailing at present and those issued from time to time.</p>		
	<p>8.2. The Service Provider shall ensure that the personnel deployed are all Indian citizens only, character & antecedents of whom are duly verified by the Police. A compliance certificate to this effect shall be provided to</p>		

	VSSC by the Service Provider.		
	8.3. The Service Provider shall ensure provisions of social security measures and other mandatory payments as per provisions of prevailing laws, for the personnel employed by them.		
	8.4. If any of the workforce misbehaves or commits any misconduct or any violation, will result in the termination of such workforce without any notice. The Service Provider shall also verify/certify the conduct of the work force at regular intervals.		
9.	OFFICIAL SECRECY		
	9.1. The Service Provider shall not take any documents/process sheet/data of the results/ CD/USB, etc, containing work details, outside the place of work.		
	9.2. The Service Provider shall ensure that their workforce is not divulging any information to any person not authorized to receive such information.		
	9.3. The entire Contract details shall be treated as strictly confidential and no information related to the same shall be parted with.		
	9.4. Any violation of secrecy, detected at any time of the Contract, committed by any of the workforce of the Service Provider may lead to termination of services of the workforce/contract itself as deemed fit by VSSC. Any violation in this regard shall attract serious action.		
10.	APPLICABLE LAW, JURISDICTION AND ARBITRATION		
	The Contract shall be interpreted, construed and governed by the Laws in India. In the event of any dispute/s, difference/s or claim/s out of relating to the interpretation and application of the work package order/s, such dispute/s or difference/s or claim/s shall be settled amicably by mutual consultations of the good office of the respective parties and recognizing their mutual interests attempt to reach a solution satisfactory to both the parties. If such a resolution is not possible, within 30 days from the date of receipt of written notice of the existence of such dispute/s, then the unresolved		

	dispute/s or difference /s or claim/s shall be referred to the sole Arbitrator appointed by the parties by mutual consent in accordance with the rules and procedures of Arbitration and Conciliation Act 1996 as amended from time to time. The arbitration shall be conducted in Bengaluru in the Arbitration and conciliation Centre-Bengaluru (Domestic and International) as per its rules and regulations. The expenses for the Arbitration shall be shared equally or as may be determined by the Arbitrator. The considered and written decision of the Arbitrator shall be final and binding between the parties. The applicable language for Arbitration shall be “English” only.		
	Work under the Rate Contract Order(s) shall be continued by the service provider during the pendency of arbitration proceedings, without prejudice to a final adjustment in accordance with the decision of the Arbitrator unless otherwise directed in writing by VSSC or unless the matter is such the works cannot be possibly continued until the decision (whether final or interim) of the Arbitrator is obtained.		
11.	SECURITY DEPOSIT		
	To ensure successful completion of the CONTRACT, the SERVICE PROVIDER should furnish interest free Security Deposit in the form of Bank Guarantee from any Scheduled Bank for 3% of the annual value of the CONTRACT and the same should be valid beyond two months from the validity of the CONTRACT. The Security Deposit will be returned only after successful completion of all contractual obligations. The Security Deposit can be furnished in the form of Fixed Deposit Receipt / Demand Draft also. FDR/DD should be in favour of Senior Accounts Officer, VSSC		
12.	PARALLEL/ ADHOC WORK PACKAGE ORDER		
	VSSC reserves the right to enter into parallel/adhoc work order(s) with one or more Service Provider(s) in order to facilitate deployment of work force during the period of the Contract for availing the same or similar services.		
13.	FORCE MAJEURE CLAUSE		
	Neither VSSC nor SERVICE PROVIDER shall be considered in default in the performance of its obligations under the CONTRACT, if such performance is prevented or delayed for any causes beyond the reasonable control of the party affected by eventualities such as		

	<p>war, hostilities, revolution, riots, civil commotion, strikes etc., or because of any epidemics, fire accidents, floods, earthquake etc., or because of any law and order situation, proclamation or regulation or ordinance of any government or sub-division thereof, or because of an act of God provided notices in writing of any such cause with necessary evidence that the obligation under the agreement is affected or prevented or delayed is given within 14 days from the happening of the event and in case it is not possible to serve notice within the said fourteen day period, then, within the shortest possible period without delay. As soon as the cause of force majeure has been removed, the party whose ability to perform his obligation has been affected shall notify the other party of the actual delay that has occurred due to such force majeure condition.</p>		
14.	<p>INSURANCE POLICY</p>		
	<p>Suitable insurance for the workforce covering all the exigencies have to be taken by the SERVICE PROVIDER for the full CONTRACT period as per government norms (Loss of life: Rs.10 Lakhs and permanent disability: Rs. 7 Lakhs). Documentary proof for the same has to be submitted to VSSC before engaging the workforce. The insurance clause is applicable for any new person joining the contract.</p> <p>VSSC will not be responsible for any loss of life/injury or property that has happened by way of an incident/accident due to mismanagement of the facility/poor workmanship/non-compliance to work instructions and safety guidelines during execution of the CONTRACT by the SERVICE PROVIDER / workforce. The entire responsibility including cost of damages/legal issues, compensation etc., shall lie with the SERVICE PROVIDER.</p>		
15.	<p>OWNERSHIP</p>		
	<p>The workforce deputed shall be employees of the Service Provider and VSSC has no responsibility towards the Service Provider's employees.</p>		
16.	<p>SHORT CLOSING / TERMINATION OF CONTRACT</p>		
	<p>16.1. Under normal circumstances, short-closing/termination of the Contract is not foreseen. However, in case of continued non-performance of the Service Provider, resulting in inordinate delays in carrying out the scope of</p>		

	work in spite of written requests, VSSC reserves the right to terminate the contract either wholly or partly.		
	16.2. In the event of short-closing / termination of the Contract, as in 16.1 above, the following procedure shall be followed:		
	16.2.1. VSSC shall give a notice of not less than one month.		
	16.2.2. On receipt of the notice, the Service Provider shall take all necessary steps for winding up of the Contract in line with the notice within a reasonable period, but in any case, not exceeding one month from the date of posting the notice.		
	16.2.3. Payment for all services rendered by the Service Provider if any outstanding shall be paid by VSSC as soon as the Contract is formally terminated.		
	16.2.4. Security deposit will be returned to party after settlement of outstanding bill		
	16.3. In case of major changes in the policies of the Government of India, as a result of which the Department is compelled to curtail the requirements wholly or partly, VSSC shall give a notice of not less than one month.		
17.	GENERAL TERMS AND CONDITIONS		
	17.1. Submission of forged documents:		
	If any of the Service Provider submits any forged or false documents along with their Tender/bid, such Tender/Bids will be summarily rejected and such Service Providers will be blacklisted for all future tenders/bids.		
	17.2. Validity:		
	The Tender/bid, submitted by the Service Provider shall be valid for a minimum period of One Hundred and Eighty days (180 days) from the date of opening the Bids/Tenders.		
	17.3. Corrections:		
	Any corrections in any portion of the tender/bid shall be compulsorily initialed by the Service Provider, failing which such		

	tenders/bids are liable for rejection.		
	17.4. The Service provider shall ensure strict compliance with the provisions of the applicable Central/State Laws.		
	17.5. The Service Provider shall submit the following documents mandatorily along with the tender /bid.		
	<ul style="list-style-type: none"> • Service Provider's relevant work experience as per Annexure-1 		
	<ul style="list-style-type: none"> • List of clients and copy of agreements 		
	<ul style="list-style-type: none"> • Copy of the IT Returns for the last three years. 		
	<ul style="list-style-type: none"> • Annual financial turnover for the last three years. 		
	<ul style="list-style-type: none"> • Balance sheet for last three years. 		
	17.6. The workforce shall be stationed only in areas identified for their work and shall not be allowed to pass into other areas without appropriate permission.		
	17.7. All equipment and utilities entrusted to the Service Provider should be handled with due care and caution. In case of any damage to the machine / equipment due to the negligence of / or reasons attributable to Service Provider's personnel, the incident will be reviewed in detail by VSSC and if found to be intentional, the cost of repairing of the machine/equipment will be recovered from the Service Provider's bill.		
	17.8. In case of exigencies inside Industry (during operation on the machines material handling etc.) first aid as available will be provided by Industry during the normal working hours. For further medical treatment and for any other emergency beyond the working hours, the Service Provider shall make their own arrangement.		
	17.9. Safety of the personnel is the responsibility of Service provider. VSSC is not responsible for any damage or loss of life during the work.		
	17.10. The Service Provider shall be solely responsible for damages if any caused to the machines, material and facility of the industry due to the action of their deputed workforce.		
	17.11. Transport 'To Industry' and 'From Industry' is in the scope of Service Provider. Industry transport will not be available for Service provider's workforce.		

	17.12. All the Service provider's workforce shall wear formal dress and appropriate footwear.		
	17.13. The workforce shall be restricted to their area of work and related work centres only.		
	17.14. Identification cards (ID Cards) shall be provided by the Service Provider for all their workforce positioned.		
18.	DELIVERY PERIOD		
	The estimated work units of each activities are based on the present rate of hardware manufacturing through various industries and is of continues nature. Monthly targets will be assigned by the VSSC focal point based on the inputs from manufacturers. The assigned activities shall be completed within the targeted time. If delayed, LD Clause as mentioned below shall be applicable.		
19.	LD CLAUSE		
	In case of delay in completion of activity as mentioned above, one half of one percent (0.5%) of the order value of the assigned activity or part thereof will be recovered from the bills for each calendar week of delay. The quantum of LD to be recovered by VSSC after assessing the quantum of work load and the decision will be final and binding on the Service Provider. The total liquidated damages shall not exceed Ten percent (10%) of the price of the activity so delayed. The Service Provider is responsible to complete the quantum of work and in case of absence of work-force, should provide suitable replacement. For this purpose, the Service Provider shall keep a panel of workforce whose experience, character and antecedents are verified.		
20.	PO placement address in full with Contact Persons Name, E-mail id, Phone No.		

Annexure-1

Service Provider Name:

	Purchase Order received from (Organization name to be provided in this column)	PO Time period (Year and total time period)	Nature of Job evidenced in the attachments (Details of work done and scope of work involved in the field of Inspection services for structural parts and preferably aero space components and assemblies. Only relevant experience to be quoted.)	PO copy attached? (Attach PO copy in the tender and comply here with YES)
1.				
2.				
3.				
4.				
	Total years of relevant experience	_____		

