

भारत सरकार/GOVERNMENT OF INDIA  
अंतरिक्ष विभाग/DEPARTMENT OF SPACE  
विक्रम साराभाई अंतरिक्ष केंद्र/VIKRAM SARABHAI SPACE CENTRE  
तिरुवनंतपुरम/THIRUVANANTHAPURAM - 695 022

विज्ञा. सं. वीएसएससी/पी/विज्ञा./338/2022 दि. 21.10.2022  
ADVT. NO. VSSC/P/ADVT/338/2022 DT. 21.10.2022

भारत के राष्ट्रपति के लिए तथा उनकी ओर से वरिष्ठ प्रधान, क्रय एवं भंडार, विक्रम साराभाई अंतरिक्ष केंद्र (वीएसएससी), तिरुवनंतपुरम, निम्नलिखित के लिए मोहरबंद निविदा आमंत्रित करता है।

For & on behalf of the President of India, the Sr. Head Purchase & Stores, Vikram Sarabhai Space Centre (VSSC), Thiruvananthapuram invites Sealed Tender for the following :-

क्रम सं. Sl. No	निविदा सं. Tender No.	वर्णन / Description	मात्रा Qty.	निविदा शुल्क Tender Fee
01.	B221 2022-001550-01 [एकल भाग / SINGLE PART]	अशोक लेयलैंड निर्मित बस के बॉडी का पुनर्निर्माण Re-Body Building of Ashok Leyland make Bus	4 सं./ Nos.	रु. 560/-
नोट:- विनिर्देशन तथा विस्तृत निबंधन एवं शर्तें निविदा दस्तावेज़ के अनुसार Note :- Specification and detailed terms & conditions as per Tender document				

निविदा प्राप्त करने की अंतिम तिथि / Due Date for Receipt of Tender	22/11/2022 up to 16:00 Hrs.
निविदा खोलने की तिथि / Tender Opening Date	23/11/2022 at 10:00 Hrs.

**विशेष टिप्पणी/Special Note:-**

विदेशी विक्रेताओं को निविदा प्रस्तुत करने की अनुमति नहीं है। मेक इन इंडिया नीति के अनुसार केवल श्रेणी-I और श्रेणी-II के स्थानीय आपूर्तिकार इस बोली में भाग लेने हेतु पात्र हैं। विदेशी ओईएम से सीधे प्राप्त उद्धरणों/या विदेशी ओईएमों की ओर से उद्धरण प्रस्तुत कर रहे एजेंटों को इस निविदा में भाग लेने की अनुमति नहीं है।

Foreign vendors are not permitted to quote. Only Class-I and Class-II Local suppliers as per Make in India Policy are eligible to participate in the bid. Quotations directly from foreign OEM/ or from agents quoting on behalf of foreign OEMs are not allowed to participate in this tender.

शुद्धिपत्र, यदि कोई हो तो, हमारे वेबसाइट [www.vssc.gov.in](http://www.vssc.gov.in) / [www.isro.gov.in](http://www.isro.gov.in) में प्रकाशित किया जाएगा।

Corrigendum, if any will be published in our websites : [www.vssc.gov.in](http://www.vssc.gov.in) / [www.isro.gov.in](http://www.isro.gov.in).

हस्ताक्षरित/Sd/-

वरि. प्रधान, क्रय एवं भंडार / Sr. Head, Purchase & Stores

**Note :-**

1. Full details and specification of the item and general instructions to be followed regarding submission of tender is indicated in the tender document.
2. Tender Document can be downloaded from our websites and also be obtained from the following address on request and submission of tender fee :

Sr. Purchase & Stores Officer, Main Purchase, RFF Area, VSSC, ISRO PO, Thumba, Thiruvananthapuram - 695 022, Ph : 0471-256 3139 / 3522.

While requesting for Tender Document please indicate on the envelope as "Request for Tender Document- Tender No..... dt.....".

3. Tender Fee (Rs. 560/-) shall be paid in the form of CROSSED DEMAND DRAFT ONLY. Other mode of payment is not acceptable. **The Demand Draft should be in favour of : Accounts Officer, Centre Accounts payable at State Bank of India, Thumba, Thiruvananthapuram [The tender fee is NON-REFUNDABLE].**

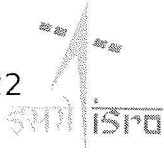
**Government Departments, PSUs (both Central and State), Small Scale Industries Units borne in the list of NSIC and foreign sources are exempted from submission of tender fee. Those who are coming under the above category should submit documentary evidence for the same.**

4. While submitting your offer, the envelope shall be clearly superscribed with Tender No. and Due Date and to be sent to the following address.

Sr. Purchase & Stores Officer, Main Purchase, RFF Area, VSSC, ISRO PO, Thumba, Thiruvananthapuram - 695 022, Ph : 0471-256 3139 / 3522.

5. Quotations received after the Due Date/Time will not be considered.
6. VSSC, Thiruvananthapuram is not responsible for any postal delay/loss of documents in transit.
7. Sr. Head, Purchase & Stores, VSSC, Thiruvananthapuram reserves the right to accept or reject any/or all the tenders in part or full without assigning any reasons thereof.

भारत सरकार  
अंतरिक्ष विभाग (अं.वि.)  
विक्रम साराभाई अन्तरिक्ष केन्द्र  
तिरुवनन्तपुरम -695022  
क्रय एवं भंडार



GOVERNMENT OF INDIA  
DEPARTMENT OF SPACE (DOS)  
VIKRAM SARABHAI SPACE CENTRE  
THIRUVANANTHAPURAM 695022  
PURCHASE UNIT-I,MAIN PURCHASE,RFF AREA  
Ph No. 0471-2563139,3676,3522,3523 Fax. 0471-2705092 / 2562065  
e-mail :spsa\_psd@vssc.gov.in

निविदा आमंत्रण  
INVITATION TO TENDER

मैसर्स  
M/s

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हमारी संदर्भ सं  
Our Ref. No.

B221 2022-001550-01

महोदय

Dear Sirs,

कृपया निम्नलिखित मदों की आपूर्ति के लिए अनुलग्नक (फार्म सं. संलग्न ) में उल्लिखित निबंधन एवं शर्तों के अनुसार संलग्न निविदा प्रपत्र में वर्णनात्मक सूचीपत्र/पैम्फलेट/साहित्य सहित हमारी संदर्भ सं. एवं अंतिम तिथि (मोटे अक्षरों में) ऊपर लिखते हुए अपनी मुहरबंद निविदा प्रस्तुत करें।

Please submit your sealed quotation , in the Tender Form enclosed here along with the descriptive catalogues /pamphlets /literature ,superscribed with Our Ref.No. and Due Date for the supply of the following items as per the terms & conditions mentioned in Annexure(Form No. null )

क्र.सं. Sl. No.	विनिर्देशों सहित मद का विवरण Description of items with Specifications	इकाई Unit	मात्रा Quantity
1	Re-body building, Water Proofing, electrical re wiring and painting of Ashok Leyland make staff buses built on 210" WB Cheetah Chassis as per Specifications in Annexure I and scope of work in Annexure II enclosed.	nos	4

सुपुर्दगी स्थल

Delivery At

Central Stores VSSC

प्रेषण की विधि

Mode of Despatch

ON SITE

शुल्क छूट

Duty Exemptions

विशेष अनुदेश

Special Instructions NIL

विशेष निबंधन

Specific Terms

निविदाकारों को अनुदेश

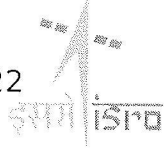
Instructions to Tenderers

(1) WARRANTY: Minimum ONE year for any defect in materials and workmanship.

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There shall be a Pre-bid discussion and it will be convened at 11.00 am on 31/10/2022 at PRO CONFERENCE HALL,VSSC

भारत सरकार  
अंतरिक्ष विभाग (अं.वि.)  
विक्रम साराभाई अन्तरिक्ष केन्द्र  
तिरुवनन्तपुरम -695022  
क्रय एवं भंडार



GOVERNMENT OF INDIA  
DEPARTMENT OF SPACE (DOS)  
VIKRAM SARABHAI SPACE CENTRE  
THIRUVANANTHAPURAM 695022  
PURCHASE UNIT-I, MAIN PURCHASE, RFF AREA  
Ph No. 0471-2563139, 3676, 3522, 3523 Fax. 0471-2705092 / 2562065  
e-mail : spso\_psd@vssc.gov.in

INDENT ANNEXURE

INDENT NO: 2022001550

Description:

- Specific Conditions if any: 1. Parties shall have the infrastructure and capability for conducting the all the works as in the specification in Annexure-I and scope of work in Annexure-II. VSSC team will inspect parties facility to evaluate its capability, if required. By submitting quotation, the bidder is accepting to this condition.
2. All bidders are requested to go through the detailed specifications, terms and conditions in Annexure-I and scope of work in Annexure-II carefully before submitting the offer. Further, they should also sign all the pages of the terms and conditions for having read & accepted the same and it shall be submitted along with the quotation format in Annexure-III.
3. It may be noted the damaged/corroded/replaced materials need not be returned to VSSC. Hence, quotation shall be submitted considering the scrap value benefit of these materials to the bidder.
4. It may be noted that considering the nature of work, the individual works cannot be split between different bidders. Hence, the recommendation will be on overall cost basis.
5. It may also be noted that, VSSC has the right to split the order quantity (no. of buses) and place order on multiple parties. As such, the parties quote shall be irrespective of the no. of vehicles.
6. A pre-bid meeting and physical inspection of the buses at our premises (VSSC, Thiruvananthapuram) will be arranged to understand the detailed scope of work before giving your quote. The bidders who participated in pre bid meeting only are eligible for bidding. Any clarifications regarding fabrication must be obtained before submitting your quotation.
7. In case order is placed on you and after the completion of work, if any defect repair works and maintenance of the vehicle required during one-year warranty period, the same shall be done by you at our site whenever necessary, free of cost. If required, after submitting bank guarantee/All risk insurance towards the value of bus, you may take the vehicle to your premises to carry out repair and it shall be delivered back from/to TOMD, VSSC, Thumba, Trivandrum free of cost.
8. Bidders shall go through eligibility criteria in Scope of work in Annexure-II before submitting quotation and shall attach all necessary documents along with the quotation to confirm the eligibility.
9. The bid submitted by bidders shall be valid for a minimum period of 120 days from the date of opening of the bid,
10. There shall be a Pre-bid discussion and it will be convened at 11.00 am on 31/10/2022 at PRO CONFERENCE HALL, VSSC. Participation in the pre-bid discussion is compulsory and those Parties who participate in the Pre-bid discussion only will be considered for further evaluation.

**Specific Conditions if any:**

1. Parties shall have the infrastructure and capability for conducting the all the works as in the specification in Annexure-I and scope of work in Annexure-II. VSSC team will inspect parties' facility to evaluate its capability, if required. By submitting quotation, the bidder is accepting to this condition.
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### Instruction to Tenderers

1. In order to avail the benefits extended by the Govt. of India to the Micro and Small sector Vendors are requested to submit along with their offers-attested copy of valid EM Part II signed by the General Manager, District Industries Centre.
2. Make/Model should be specifically mentioned in your offer. Authorized Dealership Certificate should be sent along with your offer wherever applicable.
3. Detailed Tech. details/Catalogue/Data sheets should be sent along with your quotation, without fail.
4. Confirm acceptance of our standard payment term "100% within 30 days on receipt and acceptance of item at our site and on submission of PBG".
5. Confirm minimum 90 days offer validity from the date of tender opening, without which offer will not be considered.
6. Minimum One Year Warranty should be provided for the items after the acceptance of items at our site.
7. Delivery & LD Clause: The delivery date mutually agreed and stipulated in the order is the essence of the contract. In case of delay in supplying the items, Liquidated Damages @ 0.5% of the order value per week subject to a maximum of 10% of the order value for the delayed period will be deducted from your bill. Please quote a realistic delivery Period.
8. Performance Bank Guarantee: In case of an Order, PBG for 3% of the total order value, issued by a Nationalized/Scheduled Indian Bank valid 2 months beyond the completion of warranty period shall be provided by you.
9. Security Deposit:- In case of an order, you have to submit an interest free security deposit equivalent to 3% of the contract value in the form of Fixed Deposit Receipt (FDR) or Bank Guarantee which will be refunded after due performance of this Contract or shall be adjusted/forfeited against any dues.
10. In case of regret, send us a letter to that effect
11. Fax and email quotations will not be considered please send your quotations well in advance by speed post and should reach us before the due date & time Department will not be responsible for any postal delay.
12. Clauses at Sl.No.6, 7&8 are mandatory and cannot be waived. Quotations which do not comply with the above requirements will be treated as invalid.
13. The enclosed Terms & Conditions also form part of this tender.
14. If any of the bidders submit any forged or false documents along with the tender such tenders will be summarily rejected and such bidders will be blacklisted for all future tenders.
15. All Tax invoices issued by suppliers/service providers on or after July 01,2017 shall invariably bear their GST Registration No.(GSTIN) and the applicable GST rates. In the absence of which, the invoices shall not be processed for payment.
16. VSSC is eligible for reduced rate of IGST as per Notification No. 45/2017 &47/2017 – Integrated Tax (Rate) dtd. 14/11/2017. Applicable rate of IGST is 5%. Necessary Exemption Certificate will be provided. Please raise your invoice accordingly availing exemption. [VSSC GST IN 32AAAGV0026J1ZL].

**BUS RE-BODY BUILDING SPECIFICATION FOR ASHOK LEYLAND 210" WB CHEETAH  
CHASSIS**

To be re-constructed as per CMVR and MV Act of India		
BUS RE-BODY BUILDING & WATER PROOFING SPECIFICATION (Dimension $\pm 10\text{mm}$ )		
Sl. No.	Description	Specifications
1	Model	Ashok Leyland make bus built on 210" WB Cheetah chassis
2	Scope of Work	Re-body building & rain water leak proofing of existing bus body by removing all panels, replacing the corroded/damaged structure with new GI structure, refixing & leak proofing, bonded & sliding glasses, replacing acrylic sheets fitted in fixed & sliding glass windows with glass, using PU sealant with 3M PU tape for roof joints, complete re wiring, replacement of lights and full body re painting as per the existing colour patterns
3	Structure	After removing all exterior & interior panels, platform, roof panels, the structure shall be inspected thoroughly and all the corroded & damaged structure elements shall be replaced using GI materials of suitable size. All welded joints shall be thoroughly cleaned and apply zinc rich on it. All the existing structure which are in good condition shall thoroughly be cleaned to remove any dust/corrosion. . . . . After the structural stage inspection by VSSC team, two coats of epoxy primer shall be applied on the entire structure to avoid corrosion
4	External Paneling	All damaged panels shall be replaced using new panels. 1mm GI sheet shall be used for waist rail to rub rail panel and 1.2mm Aluminium sheet shall be used for rub rail to skirt rail. Wherever possible, existing panels shall be reused.
5	Front Shape	The front shape shall be retained. Damaged front shape FRP panel if any shall be repaired.
6	Front Grill	Front grill with vents to ensure fresh air supply to the radiator along with hydraulic/gas cylinders for easy lifting of the bonnet shall be retained. Any damaged / weak hydraulic/gas cylinders shall be replaced.
7	Rear shape	The rear shape shall be retained. Damaged rear shape FRP panel shall be repaired. Necessary alteration in FRP panel shall be provided to fit combination light in place of

		individual indicators lights.
8	Roof Panels	Damaged roof panels if any shall be replaced with 1.00 mm GI Coil with permacel tape for joints. Wherever roof is not curved and seen water logging, the same shall be modified as curved roof to prevent water logging. Wherever possible, existing panels shall be reused.
9	Front bumper	Repair/replace any damaged FRP front bumper
10	Rear Bumper	Repair/replace any damaged FRP rear bumper
11	Wheel Arch	Replace any damaged wheel arch with 2.5mm Aluminium sheet covering
12	Battery box	The batteries are mounted on swing out type structure with strong pivot rod, bearings & structure inside the battery cabin on LH side. Battery cradle is locked in its position with two strong tower bolts on both sides. Replace any damaged hinged flap door, lock, tower bolt, bearings/Roller & Bush or structure. Otherwise, rotational type battery cradle shall be replaced with sliding type.
13	Internal Paneling	Any damaged interior truss panel, waist panel, window finishers, roof panel shall be replaced.
14	Flooring	Replace damaged 3mm thick aluminium Chequered plate if any. All solid rivets of the platform shall be removed and replaced with sufficient no. of good quality strong pan head steel screw & Lock nut at 2" pitch shall be used for fitment.
15	Grab Rail	Replace any damaged grab rails or fixed type standee strap.
16	Stanchion pipe	Replace any damaged pipe.
17	Window guard rail	Replace any damaged guard rails.
18	Locks	Any damaged locks shall be replaced.
19	Insulation	Appropriate non-flammable thermal insulation shall be used.
20	Driver door Model	Any damaged door, lock, handle, key, lifting type clear window glass shall be repaired/replaced with reliable water/air tight joint. The locking mechanism and dove tail shall be provided to avoid rattling sound.



21	Passenger Entry Door Model	Any damaged JK door, mechanisms, pneumatic cylinders, control switches, mountings & accessories shall be repaired/replaced.
22	Foot step	Any damaged foot step shall be repaired with 3mm Aluminum chequered sheets. Existing step width shall be maintained.
23	Front Windshield	Existing Single piece laminated clear safety toughened glass of 8.76mm thickness mounted on rubber beading shall be removed. The entire wind screen glass structure shall be thoroughly inspected and damaged portions shall be replaced. The front windshield glass shall be refitted.
24	Rear Windscreen	Existing 5mm thick Single Piece Clear/Light grey safety toughened glass shall be removed. The entire wind screen glass structure shall be thoroughly inspected and damaged portions shall be replaced. The rear windscreen glass shall be refitted.
25	Top Fixed Glass, Windows & Sliding Glass on both sides	<p>The bonded glasses, window frames and glasses shall be removed. All damaged bonded/window sliding glasses wherever acrylic sheets are fixed shall be replaced with 5mm thick Toughened Clear Safety Glass. All sliding glass felts shall be replaced with superior quality durable flexible felts to ensure free sliding of glasses while avoiding rattling noise of glasses.</p> <p>It shall be ensured that fixed glass and window frames are in line with premium quality adhesive such 3M make to prevent rain water leakage. Extreme care shall be taken to avoid water leak through fixed glass and sliding glass windows.</p>
26	Window Glass Handle	Any damaged PVC window handles and aluminium handles shall be replaced with similar wider PVC handle (80mm min. width) with smooth edges and without lock. Ensure that handle will not get stuck with seat frame.
27	Dashboard	The existing dash board shall be retained. Any damages shall be repaired. Any non-working accessories in instrument panel shall also be replaced.
28	Driver Partition	Replace any damaged pipes & glass. A Foot rest and handle shall be provided on the partition for the passenger sitting behind the partition in front seat.

29	Engine Bariguard Partition	Replace any damaged pipes.
30	Emergency Exit	Side Emergency exit door shall be made easily operable.
31	Wiper system	Replacement of wiper with Volvo type bottom mounted wind screen wiping system with 32" wiper arm & blade, opposed wide sweep, inbuilt spray with 3 litre tank shall be provided.
32	Headlights, roof light and indicators	. Replacement of head lights, roof lights and indicators. All rear individual indicators shall be replaced with combination light.
33	Electrical cables & wirings	Replacement of existing electrical cables and with reputed brand such as Finolex make wires of appropriate conductor cross section based on actual loads by following all safety guidelines and shall be placed inside fire retardant wire sleeves & conduits. All cables used shall be compliant with BIS / DIN / ISO / SAE / JIS or JASO or other equivalent standard and shall be able to withstand working temperature up to 70°C. All the cables shall be ducted and secured at suitable places in such a manner that during normal use of vehicle the cables are not subjected to any tension, stretching, nicking, cutting, abrasion or chaffing.
34	Tool box	Any defective portions of tool box shall be repaired.
35	Mud flap Rubber	It shall be provided wherever it is not available/damaged.
36	Outside rear view mirror (ORVM)	It shall be provided wherever it is not available/damaged/faded.
37	Inside rear view mirror (IRVM)	It shall be provided wherever it is not available/damaged/faded.
38	Number Plates	It shall be provided wherever it is not available/damaged.
39	Route board	It shall be provided wherever it is not available/damaged.
40	Document Box	It shall be provided wherever it is not available/damaged.
41	Wheel arch rubber	It shall be provided wherever it is not available/damaged.
42	Water Channel	Any damaged water channels shall be repaired.
43	Barricade & foot step	Any damaged barricade & foot rest in front of the 3 seater seat near to rear door and two seater seat near to the passenger door shall be repaired.

44	Paint	<p>Complete body painting including number plate writing shall be done as per the existing pattern. Necessary putty work also to be carried out to obtain the surface finish before applying paints.</p> <p>Existing paints in all the internal GI /MS rails shall be removed by scrubbing and two coat of epoxy primer to be applied before painting.</p> <p>PU paint - Asian Silver Grey above floor level &amp; DA Grey below floor level.</p>
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**GENERAL CONDITIONS FOR RE-BODY BUILDING:**

1. You may visit our premises for physical inspection of the buses to understand the scope of work, if required, before giving your quote. Any clarifications regarding fabrication must be obtained before submitting your quotation.
2. All body materials used shall be of reputed manufacturers such as Kalinga, Apollo, JSW (Jindal), Bhushan, Hindalco, Balco, Tata steel, TNT, Vizag steel and shall be new, free of rust/corrosion. If required by the inspection team, the documents and test certificates of materials used shall be shown to the inspection team for verification.
3. All other materials & electrical accessories used shall be of reputed manufacturers. If any items used is found inferior by the inspection team, the same shall be replaced with recommended quality material.

**PRECAUTIONS TO BE TAKEN DURING RE-BODY BUILDING:**

1. Body building instructions and CMVR requirements given by the bus chassis manufacturer M/s. Ashok Leyland Ltd., shall be followed during fabrication work.
2. Necessary protection shall be used on all wirings & electrical accessories to avoid damage during work.
3. Battery & other electrical accessories shall be removed and kept in safe location during re-body building work. Its condition shall be checked regularly and if required, it shall be charged.
4. Working clearance required for drop arm movement, axle articulation, suspension movement, variation in propeller shaft drive lines, flexible pipes, bumper clearance. etc., must be provided.
5. Before welding, the following shall be followed mandatorily.
  - Disconnect the battery terminals (both positive & negative terminal of 24V supply)
  - Disconnect two connectors of the ECU and have the panel cover refitted.
6. Ensure that the intermediate connector (supply +ve and -ve for ECU) between the DC to DC converter and wiring harness is properly locked and intact.

**SCOPE OF WORKS, TERMS AND CONDITIONS**

**1. Scope of Work:**

Re-body building & rain water leak proofing and testing of Ashok Leyland Cheetah bus body by removing all panels, replacing the corroded/damaged structure with new GI structure, refixing & leak proofing bonded & sliding glasses, replacing acrylic sheets fitted in fixed & sliding glass windows using glass, using PU sealant with 3M PU tape for roof joints as per specification in Annexure I, replacing electrical wires & lights and complete re painting. Your offer shall include both labour and material cost for the work per bus and shall be quoted in Annexure II. Any other cost such as GST, additional cess, transportation charges, insurance cost, etc., shall be specifically mentioned in your offer.

It is planned to carry out the re-body building work in 4 department buses. You shall carry out the work in two lots. First lot of 2 buses will be given for re body building initially. After satisfactory completion and delivery of the re body built buses, you shall collect the balance buses from VSSC for re body building.

**2. General design and key requirements:**

The general streamlined balanced bus body & its front show of aerodynamic design, single piece wind shield glass, top fixed glasses, sliding glass windows, Aluminium chequered sheet platform, HHR seats, a folded inswing type pneumatically operated JK door positioned behind front axle, full width complete foot step, flat platform construction shall be maintained and any modification shall be as per our specification in Annexure I or with the written approval of VSSC representatives only.

**3. Statutory regulation to be followed:**

The re-fabrication work shall comply with all applicable Automotive Industry Standards (AIS), CMVR 1989, Kerala MV rules and Motor Vehicle Act 1988 of Govt. of India.

**4. Collection and Delivery of Bus:**

The buses identified for re body building are in drivable condition and in operation right now and that are to be taken by the party from TOMD, Thumba, Trivandrum. **Re body work for two buses together shall be completed and delivered back to VSSC within a time frame of 30 days from the date of collection of buses from VSSC excluding time taken for inspection of the vehicles.**

Bank guarantee/all risk insurance policy for the value of the bus (approx. Rs.15.00 Lakhs per bus) to be submitted by the party before taking the buses from VSSC for body building works. It will be given back only after the successful completion of work and delivery of the vehicle safely at our site.

Being a Govt. of India organization, the vehicle is exempted from taking insurance. Hence, the party will be held responsible for the safety of the vehicle during transportation, fabrication and till the vehicle is delivered safely to VSSC.

Renewal of pollution certificate from time to time is the responsibility of the body builder and after body building vehicle, original PUC shall be provided.

## 5. Inspection

Necessary inspection at stripping stage, structural, paneling and finishing stages will be conducted by our inspection team during the body building work as follows.

**First stage inspection:** After completion of complete stripping as per Sl. No. 1 of Annexure - III, an inspection will be carried out by our team of officials and necessary work to be done will be instructed.

**Second stage inspection:** After completion of all corrective works on structure as instructed during the first stage inspection but before the application of primer on structures. The quantum of work carried out will be certified by our inspection team. Epoxy primer shall be applied only after completion of inspection and clearance.

**Third stage inspection:** After completion of exterior panel work and fitment of all window glasses, wind shield glass & rear glass but before interior panel work. Initial water leak test will be conducted in this stage to ensure no water leak in inside structures.

**Final stage inspection:** After finishing & completion of all works in all respect before delivery of the vehicle. Road test and water leak test will be conducted. The quantum of work carried out will be certified by our inspection team.

During the inspection, any minor modification and corrective works if found necessary by the inspecting team, shall be carried out free of cost as per the instruction of the inspection team. If the quality of the work done is found not satisfactory to the inspection team, you shall do necessary modifications as suggested by the team. If any work done is found inferior in quality by our inspection team, the same shall be reworked as recommended. After completion of the modification only and next stage work can be started.

## 6. Payment terms

100% payment shall be made within 30 days from the date of satisfactory acceptance of each bus.

## 7. Warranty:

The rebuilt bus shall be guaranteed for a period of one year from the date of receipt of completed vehicle at our site against rain water leak, all manufacturing defects, faulty workmanship, substandard materials, etc. If any defects are noticed after acceptance of the vehicle during the warranty period, it shall be suitably rectified by you at your cost to the utmost satisfaction of us within the reasonable time. Repair work of the vehicle required during the warranty period shall be done by you at TOMD, VSSC, Thumba, Trivandrum or after submitting Bank guarantee/all risk insurance policy towards the value of the bus, at your site based on nature of work needed.

## 8. Eligibility Criteria:

- ❖ Parties shall have a min. of 5 years' experience in the field of new/re-body building of buses. Necessary proof shall be submitted.
- ❖ Parties must have carried out new/re-body building in a minimum of 1 vehicle in the last one year. Necessary proof shall be submitted.

## Annexure II - Scope of Work

- ❖ Parties shall have the infrastructure & capability for carrying out all the works as in Annexure-I and scope of work in Annexure-II. VSSC team will inspect party's facility to evaluate its capability, if required. By submitting quotation, parties are accepting to it.
- ❖ Parties shall be able to complete the work for two buses together within a time frame of 30 days excluding time taken for inspection of the vehicles.
- ❖ Parties within 1000 km from VSSC, Thumba, Trivandrum only will be considered to minimize the time incurred for inspection/clearance during re-body building work.
- ❖ Parties who participated in the pre bid meeting are only eligible for submitting the quotation.

To be constructed as per CMVR and MV Act of India

## QUOTATION FORMAT FOR BUS RE-BODY BUILDING, WATER PROOFING &amp; PAINTING

Sl. No.	Description	Unit	Unit Material Cost (A)	Unit Labour Cost (B)	Approx. Qty per Bus (C)	Total cost		Total Amount per Bus (F= D+E)
						Material (D=A X C)	Labour (E= B X C)	
1	Complete stripping of exterior body panels on LH & RH sides, wheel arch panels, Removal of all passenger seats, Removal of Front & rear windscreen glass & partial stripping of roof panels at front, complete stripping of center roof panel, Removal of All window glass frames, Removal of All Roof fixed glass/acrylic sheets, Partial stripping of inside panels to facilitate further work, Cutting & removal of corroded/damaged structure elements, windscreen structure elements, wheel arch structure and other corroded/damaged structure elements and related works.	per bus			1			
2	Replacement of main pillar, stump pillar, skirt rail, anti-drumming rail, waist rail, roof stick, wheel arch structure, footstep structure, driver partition pipe and windscreen structure elements, Curving roof centre with additional GI tubes, Providing Foot rest and handle for the passenger sitting behind the driver partition in front 3 Seater seat using new GI/MS materials of respective size & related works, apply two coats of epoxy primer on the replaced structure. Rate of Epoxy primer and consumables for the replacement of structure and welding	per bus			1			
	a) GI Tube 60x40x2.6 mm	per metre			120			
	b) GI Tube 40x40x2.6 mm	per metre			60			
	c) GI tube 40x20x2 mm	per metre			50			
	d) GI tube 40x40x2 mm	per metre			120			
	e) MS Angle: 40mm x 40mm x 3 mm Thickness	per metre			20			
	f) MS Angle: 25mm x 25mm x 3 mm Thickness	per metre			12			
	g) MS Flat: 2" width x 6 mm Thickness	per metre			10			
	h) 1" Dia x 2mm thick Precoated GI pipe & Fittings	Per metre			6			
3	Complete exterior paneling on both sides, wheel arch panel including non-flammable thermal insulation between panels wherever required							
	a) 1.0mm GI sheet for waist rail to rub rail panel	per Sq. Ft.			150			
	b) 1.2mm Aluminium sheet for rub rail to skirt rail	per Sq. Ft.			100			

Sl. No.	Description	Unit	Unit Material Cost (A)	Unit Labour Cost (B)	Approx. Qty per Bus (C)	Total cost		Total Amount per Bus (F= D+E)
						Material (D=A X C)	Labour (E= B X C)	
	c) 2.5mm Aluminium sheet for wheel arch panel	per Wheel arch			4			
	d) 1.0mm Aluminium coil for roof panel	per Sq. Ft.			40			
	e) Non-flammable thermal insulation	per Sq. Ft.			70			
4	Replacement of interior truss panel, waist panel, window finishers, roof panel using 0.8 PPGL (Polypropylene GI sheet)	per Sq. Ft.			10			
5	Repair of damaged front/rear FRP panel if any	per Sq. Ft.			40			
6	Replace any damaged/weak hydraulic/gas cylinders	per piece			2			
7	Fixing of stripped roof panels with permacel tape for joints and fixing of roof tar sheet.	per bus			1			
8	Repair/replace any damaged front/rear bumper	per metre			1			
	Replace any damaged hinged flap door, lock, tower bolt, pivot rod, bearings or structure.							
9	a) Hinged Flap door & structure	per piece			1			
	b) Lock & Towel Bolt	per piece			2			
	c) Bearings/Roller & Bush	per piece			3			
	Replace any damaged platform aluminium chequered plate flooring and replace all solid rivets with Pan Head Steel Screw & Lock nut at 2" pitch.							
10	a) 3mm thick aluminium Chequered plate	per Sq. Ft.			30			
	b) M8x20mm/25mm/40mm long Pan Head Steel Screw & Lock nut	per bus			1			
	Replace any damaged grab rails/fixed type standee strap, stanchion pipe & window guard rail with necessary fitments							
11	a) Grab rail: 1" Dia x 2mm thick Precoated GI pipe	per metre			1			
	b) Standee Strap	per piece			1			
	c) Stanchion pipe: 2" Dia x 2mm thick Precoated GI pipe	per metre			4			
	d) 16mm Outer Dia x 1.5mm thick Aluminium Pipe for window guard rail	per metre			35			



Sl. No.	Description	Unit	Unit Material Cost (A)	Unit Labour Cost (B)	Approx. Qty per Bus (C)	Total cost		Total Amount per Bus (F= D+E)
						Material (D=A X C)	Labour (E= B X C)	
12	Any damaged passenger door, driver door & emergency exit structure, panel, lock, handle, key, lifting type clear window glass shall be repaired/replaced with reliable water/air tight joint. The locking mechanism and dove tail shall be provided to avoid rattling sound.							
	a) Magazine pouch/Document Box	per piece			1			
	b) Lock & Key	per Assy.			1			
	c) Handle	per piece			2			
	d) Driver door Window Glass	per piece			1			
	e) Passenger door window glass	per piece			1			
13	f) Emergency exit Window Glass	per piece			1			
	Replace any missing top bonded glass/ curved window glass/handles and replace acrylic sheets with glass. All removed top bonded glasses/windows shall be refitted using premium quality adhesive such 3M make to prevent rain water leakage. All sliding glass felts shall be replaced.							
	a) Refitting Charges including materials(Sealant, etc.) required for refitting a bonded glass.	per Glass			15			
	b) 5mm thick Toughened Clear Safety Glass for Bonded glass.	per Glass			5			
	c) Refitting Charges including materials required for refitting a window.	per Window			12			
	d) 5mm thick Toughened Clear Safety Glass for windows (Sliding type)	per Glass			5			
14	e) Superior quality durable flexible Sliding glass felts	per Bus			1			
	e) Handles	Per piece			20			
	Any damaged/not available wiper mechanism along with mounting, number plates, water channels, mud flap rubber, wheel arch rubber, route board, warning triangle shall be rectified/ replaced/provided.							
	a) Volvo type Wiper mechanism along with mounting	Per bus			1			
	b) Number plates	Per piece			1			

Sl. No.	Description	Unit	Unit Material Cost (A)	Unit Labour Cost (B)	Approx. Qty per Bus (C)	Total cost		Total Amount per Bus (F= D+E)
						Material (D=A X C)	Labour (E= B X C)	
	c) Water channels	Per metre			20			
	d) Mud flap rubber	Per piece			2			
	e) Wheel arch rubber	Per piece			2			
	e) Route board	Per piece			2			
15	Refixing of partially stripped inside panels & outside panels	Per bus			1			
16	Refixing of Front & rear windscreen glass & partially stripped roof panels	Per bus			1			
17	Refixing of all passenger seats	Per bus			1			
18	Outside rear view mirror (ORVM) shall be provided wherever it is not available/damaged/faded.	Per piece			1			
19	Inside rear view mirror (IRVM) shall be provided wherever it is not available/damaged/faded.	Per piece			1			
20	Complete electrical re-wiring.	Per bus			1			
21	Replacement of Headlights.	Per piece			4			
22	Replacement of front indicator lights.	per piece			2			
23	Replacement of rear combination light.	per piece			2			
24	Replacement of inside roof top LED lights.	Per piece			6			
25	Complete painting and number plate writing.	Per bus			1			
<b>Net cost including both material and labour charges (FT= DT+ ET)</b>								
1 Bus								
<b>GST @ 18% for Labour &amp; @ 28% for Material</b>								
1 Bus								
<b>Total Cost with GST</b>								
1 Bus								

Sl. No.	Description	Unit	Unit Material Cost (A)	Unit Labour Cost (B)	Approx. Qty per Bus (C)	Total cost		Total Amount per Bus (F= D+E)
						Material (D=A X C)	Labour (E= B X C)	
	Approx. Transportation Cost towards diesel & driver bata for total distance of _____ Kms (To & Fro)				1 Bus	--	--	
	Approx. Transit Insurance Charges for onward & return journey				1 Bus	--	--	
	Any other charges (Specify details)				1 Bus	--	--	
	<b>Total cost for Re-body building of one bus</b>				1 Bus	--	--	

Note:

1. It may be noted that only the major materials are listed in the above table. As such, all other consumables, adhesives, fasteners and accessories required for each work are included in the cost of major materials.
2. It may be noted the damaged/corroded/replaced materials need not be returned to VSSC and bidder shall quote material cost after reduction of scrap cost.

**EARNEST MONEY DEPOSIT / BID SECURITY:**

1. Earnest Money Deposit (EMD) or Bid Security is obtained to ensure the earnestness of the vendor in the procurement process. Registered Vendors of VSSC are exempted from furnishing EMD or Bid Security in the procurement process. Other Vendors participating in the tender process has to furnish EMD through Demand Draft/Banker's Cheque for **Rs. 1,20,000/- (Rupees One lakh and Twenty thousand only Only)** drawn in favour of Sr. **Accounts Officer, Centre Accounts, VSSC-Trivandrum** payable at State Bank of India, Thumba Branch. EMD shall be interest free. EMD shall also be furnished in the form of Fixed Deposit Receipts or Bank Guarantee from any of the Scheduled Banks executed on non-judicial stamp paper of value Rs.200/-. In case of Bank Guarantee, it shall be valid for a period of 45 days beyond the final tender validity date.
2. Also, Registered Vendors who have already applied for renewal of registration, Central PSUs, PSEs, Autonomous Bodies, Micro and Small Enterprises, KVIC, National Small Industries Corporation etc., are exempted from the payment of EMD.
3. Any tender not accompanied with EMD shall be treated as **INVALID TENDER** and rejected. Vendors seeking exemption from payment of EMD shall submit necessary proof like registration number etc.
4. EMD of vendor shall be forfeited if the tenderer / contractor withdraws or amends his tender or deviates from the tender in any respect within the period of the validity of the tender. Failure to furnish Security Deposit/Performance Bond by a successful vendor within the specified period shall also result in forfeiture of EMD.
5. EMD shall be refunded to all the unsuccessful vendors within thirty days after placement of the Purchase Order. EMD shall be refunded to the successful tenderer/contractor after payment of the Security Deposit. EMD shall be refunded to all the participants in cases where the tender is cancelled or withdrawn by the Centre/Unit, within thirty days from the date of such cancellation or withdrawal.