

REGISTERED/IMMEDIATE
 Heavy Industries Taxila
 Marketing and Procurement
 Directorate (Commercial Cell)
 Taxila Cantt, Pakistan
 Tel: (051) 9315033-62933
 Fax No. (051) 9315029 & 31
 CC/19/5061/IT-260/Ind-59/
 P-881/ Proc

18 Apr 2019

To: M/s _____

Subject: **Tender Inquiry for short listing of substitute of Land Cruiser LC-79 chassis on no cost no obligation basis**

- HIT indents to pre-qualify a suitable chassis as substitute of Land Cruiser LC-79 on **“NO COST NO OBLIGATION”** basis.
- You are requested to please forward your offer for the following:-

Ser	Part No and Nomenclature	A/U	Qty	Unit Price	Total Price
a.	Detailed Specifications are att as per Anx “A”	Nos	01		

Instructions for the Bidders

- Over writing and cutting of any nature in the quotation will not be accepted.

REGISTERED

BID

TENDER ENQUIRY NO: CC/19/5061/IT-260/Ind-59/P-881/Proc dated 18 Apr 2019

TO BE OPENED ON: 21 MAY 2019 AT 1100 HRS

**TO: ASSISTANT DIRECTOR (PROCUREMENT)
 HEAVY INDUSTRIES, TAXILA**

FROM: M/s _____

- Forward your bids not later than at **1030 hours** on **21 May 2018**.
- Submission of Tender.** The tender if brought by hand, will be handed over to security staff on duty at Heavy Rebuild Factory HRF (T) Gate No.1 for placing the same in bid box (available at gate). The bid will not be brought by hand by any firm while visiting the offices of Assistant Director (Procurement).

6. If, required endorsements are not made on the envelope, bid is liable to be disqualified. The bid will be opened on **21 May 2019 at 1100** hours in the presence of the available representative of the firms in Central Procurement Branch, Heavy Industries Taxila. No bid will be entertained / considered after **1030 hours**, on the aforementioned date.
7. HIT may reject all bids or proposal at any time prior to the acceptance of a bid or proposal, but is not require to justify those grounds in the light of PPRA rule 33.
8. Please indicate full details (specifications, manufacturers etc) of the stores offered in your quotation. If required details are found missing, the bid will automatically stand disqualified and rejected.
9. The store will be packed in standard grade, worthy of transportation by the means adopted.
10. This inquiry may not be taken as an indication of subsequent supply order and does not in any way commit HIT to purchase the items offered.
11. In case of any dispute regarding the terms and conditions and the quality of stores, the decision of the Chairman HIT will be considered as final and binding on the suppliers/firms.
12. All clauses/terms mentioned in this inquiry will be considered accepted by the firm in case no reference to them is given in the offer.
13. **Postal Order for Rs. 200/-** (Rupees Two Hundred) in favour of Director M&P HIT Taxila Cantt will invariably be enclosed with the quotation, failing which the bid will be ignored.
14. Firms are instructed NOT to send Telex and Fax bids. Such bids/offers will not be accepted.
15. Country of Origin: Any country except India, Israel and Taiwan.
16. Evaluation / trials of the store will be carried out at HIT Taxila Cantt.
17. Integrity Pact will invariably be involved / invoked when the total value of the contract exceeds 10 million as specified in PPRA Rules 2004.

Evaluation Criteria

18. **Eligibility Criteria**. Offer of the bidder will be rejected and **no further processing / evaluation will be made, if part or whole of any of following** is not provided / confirmed alongwith **TECHNICAL QUOTATION:-**
 - a. Participating firms should not have defaulted in any contract with government organizations within or outside Pakistan.

- b. In case of local firms, only sales/income tax registered suppliers/persons who are on Active Taxpayer List (ATL) of FBR are eligible to supply goods/services to government departments. Suppliers will submit certificate to this effect along with Technical Quotation.
- c. Delivery period of sample will be **03 months** from the date of the formal approval of the proposal from HIT side.
- d. Country of Origin: Any country except India, Israel and Taiwan.
- e. **No blacklisting** from any agency (affidavit on judicial stamp paper to be provided).
- f. The firms are responsible to provide evidence of agency agreement/certificate of Conformance. Principal proforma invoice (in original and without price).
- g. Partial delivery is not allowed.
19. **Qualification Criteria.** Participating firms should meet the following criteria with:-
- a. Minimum 50% score in every individual category/sub category (except 19 C (3) whereby firm with even zero scoring will not be affected with this clause).
- b. Minimum 50% aggregate score of all categories.
- c. The scoring would be done as under:-

(1)	Serial	Description	Maximum Points
	(a)	Financial Soundness	55
	(b)	Past Experience and Technical Performance	45
	Total		100

- (2) **Financial soundness.** Credit Marks for financial soundness of the firm shall be on the basis of following qualifications: -

Serial	Description	Max Points	Explanation for Marks Obtained
(a)	Annual turnover of last 3 x Financial Years / Annual sales of company (Third Party generated verifiable audit reports for last three financial years to be provided).	25	Full Marks will be given to bidder whose 3 years turnover (as per audit financial report) will equal to or higher than US\$ 150,000. Marks of remaining bidders will be calculated as per following formula:- Formula Score = $\frac{(Y1+Y2+Y3)}{US\$150,000} \times 25$ *(Y1, Y2, Y3 respective annual turnovers of last three years)

			Note: All calculation will be done in USD, other currency (if any) will be converted into USD with applicable conversion rate.
(b)	Working Capital of last financial year (Third Party generated verifiable audit report to be provided).	20	Full Marks will be given to bidder whose working capital will be equal to or higher than US\$ 25,000. Marks of remaining bidders will be calculated as per following formula:- Formula Score= $\frac{(X1)}{\text{US\$ 25,000}} \times 20$ X1= Working Capital of last year Note: All calculation will be done in USD, other currency (if any) will be converted into USD with applicable conversion rate.
(c)	Litigation History where decision went against the firm (affidavit on judicial stamp paper to be provided).	10	10 Marks for firms with no litigation history. 5 Marks will be deducted for each litigation where decision went against firm.
Total		55	

- (3) **Past Experience/Technical Performance.** Credit marks for shall be awarded on the basis of following qualifications:-

Ser	Description	Max Points	Explanation for Marks Obtained
(a)	GVW of chassis	10	Minimum required GVW of chassis is 3200 Kg. However, firm offering GVW of 3200-5500 Kg with OEM provided system will be given points with respect to best offered GVW.
(b)	Confirmation to following mobility test of chassis with combat weight of 5500 Kgs:-	15	Firm are required to confirm regarding conduct of test (Detail is attached at Anx 'B')

	<ul style="list-style-type: none"> • Upgraded brake test • Acceleration test • Hand brake test • Grade-ability test with 30° gradient • Highway speed test • Suspension system test 		
(c)	<p>History of offered Chassis sold previously</p> <p>Attested and verifiable copies of related documents be attached</p>	05	<p>Full marks will be given to firm offering best sold Chassis i.e total numbers of offered Chassis sold in last five years are highest. Marks of remaining firms will be calculated with reference to highest as per given formula:-</p> <p>Formula</p> <p>Score: $(X1/\text{Highest value}) \times 10$</p> <p>X1= Total number of offered Chassis sold in last five years</p>
(d)	<p>After sale services.</p> <p>Attested and verifiable copies of related documents be attached</p>	15	<p>Full marks will be given to firm having best setup of after sale services and supply chain/avail of spare parts of offered Chassis in Pakistan. Marks of remaining firms will be calculated with reference to best evaluated firm.</p>
Total		45	

Lt Col
Assistant Director Procurement
(Riaz Fida)

SPECIFICATION OF CHASSIS FOR MANUFACTURING OF ARMOURED SECURITY VEHICLE

The technical specifications of Chassis are appended below:-

Specifications	Range/Value
Engine Type	V type / Inline
Engine Power	190 HP (minimum)
Torque	430 Nm at optimum / specified RPM
Transmission	Manual , 6 Speed (minimum)
Drive Line	4 x 4 High, 4 x 4 Low
Brakes	ABS, Preferably Disc Brakes
Differential lock	Yes, Preferably
Rim Size	16"-18"
Wheel Base (mm)	3200±50
Front Tread (mm)	1550±25
Ground clearance (mm)	220 (minimum)
GVW	3200 KGs min
Fuel Sys	Diesel
Fuel Tank Capacity	Cruising range 500 km (minimum)
Maximum Speed	140-160 Km/hrs or higher
Minimum Turing Radius (m)	Should not exceed 7.5m
Air Conditioner	To be provided
Right Hand Drive	Yes
Complete Dash Board	Yes
Dash Board Display Panel	Dash Board display panel should have following:- Speedometer, Odometer, Trip Odometer, Fuel Gauge, Temperature gauge and preferably with Tachometer/RPM meter
Side view mirrors	Yes, Preferably with Power controlled(electronically controllable for vertical and horizontal adjustment from inside of vehicle)
Upgrades	Confirmation regarding availability of upgraded Brakes, Suspensions and Clutch System to support 5.5 Ton Wt

TEST PROCEDURE OF CHASSIS WITH COMBAT WEIGHT OF 6000 KGS

1. UPGRADE BRAKE TEST

To test the brakes of the vehicle, the vehicle brakes are to be applied when the vehicle attains a certain speed. The speed of brake tests and the safe stopping distances are listed in the table below. The stopping distance of the tested vehicle is to be measured and compared to that in the reference table. The brake test is to be performed at least 3 times for each speed and then an average taken and listed in the table.

Speed	Stopping Distance (m) (Reference)	Stopping distance (m) (Measured)
40 km/h	Till 9 m	
60 km/h	16-20 m	

2. ACCELERATION TEST

The vehicle is accelerated from 0-40 and 0-60 as quick as possible to test the respective acceleration times for the Vehicle. These tests are to be repeated at least thrice and an average value be put in the table below.

Acceleration Test	Reference Time (s)	Measured Time (s)
0-40 km/h (accelerated on test track / highway)	7 Seconds	
0-60 km/h (accelerated on test track / highway)	12 Seconds	

3. HAND BRAKE TEST

The vehicle's hand brake is tested by parking the vehicle on a gradient of 20°. The vehicle must remain stationary at the given gradient after the hand brake is applied. If the vehicle successfully maintains its position after the handbrake is applied, the hand brake is deemed satisfactory. When testing the parking brake, also make sure the signal light appears when the brake is in use. The vehicle should ideally be switched off after applying the handbrake.

The handbrake should be tested both ways, up the slope and down the slope.

Hand Brake Test Gradient	Result (Passed / Failed)
20° gradient	

4. GRADEABILITY

The vehicle is to be tested on a gradient of 30° upward and downward with the vehicle carrying the gross vehicle weight. The gradeability must be checked with the vehicle in LOW 4x4 transmission mode.

Gradient / Slope	Measured Speed	Results & Comments
30°		

5. TOP HIGHWAY SPEED

The vehicle is run on a highway and pushed to its maximum attainable speed. The top speed is noted & then compared to the reference value in the table below.

Reference Top Speed (km/h)	Measured Top Speed (km/h)
140-160 km/h	

6. UPGRADED SUSPENSION TEST

For the suspension test of the vehicle, the vehicle is run on a slalom test layout and has to maneuver through it at a reference speed & time. Test procedure is described below.

Scope of Test

The vehicle shall negotiate a series of eight cones positioned in-line and spaced at intervals of 30m (d), at the quickest safe speed. A minimum test track width (road width) of 10m is recommended with sufficient run-off area for the vehicle for acceleration & braking. The layout of the course is shown below:

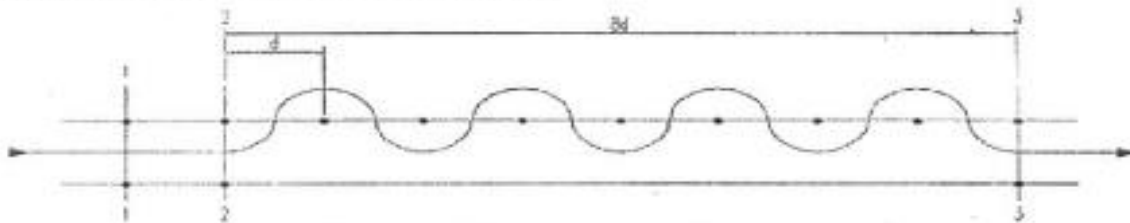


Figure – Slalom suspension test layout

The arrows represent the path of the vehicle along the slalom. Each pass shall be recorded and the test shall be continued until the quickest pass is established. Vehicle balance and steering responses shall also be assessed.

The vehicle will cross the starting line 1-1 and drive in a straight line through section 1-2. The vehicle will then attempt to complete section 2-3 in the shortest possible time.

Repeat at various speeds until the maximum consistent entry speed is achieved or it becomes impossible to complete the test course without knocking the cones over or it is deemed the limit of the vehicle has been achieved.

The driver will comment on the handling of the vehicle during the course. The driver should note the following points to base their judgments:-

- Steering effort through cornering
- Suspension reaction through cornering
- Over steer and under steer through corners
- Stability through corners
- Effects on of weight transfer (i.e. while braking) on cornering behavior
- Turn-in behavior in the transition from straight line to cornering
- Tyre Noise & handling suitability

The tyres should be inflated as specified by the manufacturer and all testing will be carried out at normal running temperatures. The vehicle will be tested at varying speeds, starting from a speed of 50 km/h and moving up to 65 km/h with 5 km/h increments.

Results and Conclusions

The vehicle was able to achieved up to _____ km/h throughout the slalom course, and completed the course in a reference time of _____ s

Speed through slalom (km/h)	Time (s)
60 km/h	
Result / Driver Comments:	

The test should ideally be carried out with two test drivers (if available), since the driver is a significant variable of the test.