

HEAVY INDUSTRIES TAXILA (HIT)
DEVELOPMENT GROUP, DESCOM
SCHEDULE FOR INVITATION OF TENDER
FOR TECHNICAL / FINANCIAL PROPOSAL
NEGOTIATED TENDER AS PER PPRA RULE 42 (D)

Tenders Nos. 8600/201/DESCOM/Dev **IT/T/495 to 599** dated **03-05-2021** forward your quotation not later than **26-05-2021** at 1030 hrs and will be opened on **26-05-2021** at 1100 hrs.

(In case of unavoidable circumstances Tender will be opened on next working day)

1. Technical and Financial proposal are invited for development of items as per Annexure-A. The Financial proposal of only those firms will be opened which will qualify in Technical proposals.

2. Items as per **Annexure-A** are required to be developed as per available Drawings / Specifications/ Genuine Samples. Drawings/ Specifications/ Genuine Samples can be seen/studied at Development Group DESCOM, Heavy Industries Taxila Taxila Cantt prior to submission of Technical & Financial offers.

Note: For any guidance / query please contact Development Group DESCOM (Assistant Director Planning) Heavy Industries Taxila, Taxila Cantt.

Telephone No: 051-9315333 Extension 62863 & 62869

3. **GENERAL CONDITIONS**

- a. Participating firms should not have been defaulted in any contract with defense organizations.
- b. **Black Listing of Firms:** Firm should not be black listed or debarred in any of the defence organization. In this regard firm should provide “**No Black Listing Certificate along with Technical Quotation**”.
- c. Firms which are not registered with Heavy Industries Taxila can also participate in tender. These firms will deposit 5% earnest money (returnable) of the total value of indent with quotation. However, qualifying firm will have to get registered from Development Group DESCOM prior to processing the contract after completing all procedures/ requirements which can be sought from above mentioned offices/ given numbers.
- d. **Single Stage Two Envelops Bidding Procedure:** Firms will submit Technical / Financial proposal in separate envelopes. Tender inquiry number and date of opening should be mentioned clearly on head of both Technical and Financial proposals envelopes.
- e. Technical offers, will be scrutinized by a board, and Technical Offers of only those firms will be accepted which have capability/ capacity to undertake development (Evaluation criteria is mentioned at clause 11). Financial quotation of not qualified firms will be returned to firms duly sealed.
- f. **Rejection of Bids:** Managing Director DESCOM shall have the right to reject any or all of the tenders in accordance with PPRA Rules 33 (1).
- g. **Re-Bidding:** In case all the Technical Quotations rejected, item / Items will be retendered.
- h. Firms will prepare complete Technical Data Package (TDP) as per following requirements and will submit after conclusion of contract. The firm will confirm that fol documents will be provided in the technical offer:-
 - (1) Blank drawing
 - (2) Part drawings along with complete dimensions and tolerances as per genuine sample.

- (3) Assembly drawing along with complete dimensions and tolerances.
 - (4) Manufacturing drawings & welding drawings.
 - (5) Complete material specifications as per genuine sample.
 - (6) Tools, Jigs & fixtures drawing and manufacturing along with usage as per processes defined.
 - (7) Manufacturing process sheets encompassing all machining process including heat/surface treatment and as per fitment/ functional test:-
 - (a) Microstructure of Metallic items/parts/assemblies: The microstructure of materials of components/parts/items must match the microstructure of the genuine standard part component.
 - (b) Heat Treatment process sheet with temperature, types of processes involved and depth of treatment for the required items.
 - (c) Surface treatment process sheet along with surface depth of required coatings along with complete process sheet for the required items.
 - (d) Casting process sheet (subject to respective item). Location of runner and risers. Size of riser and method of venting etc.
 - (e) All those processes which are required i.e. forging, casting, machining will be followed by firm as per genuine sample and be made part of process sheets.
 - (8) TDP, Drawing, process sheet, Acceptance Test Procedure (ATP) and any other information regarding development parts will be the intellectual property of HIT and will not be shared with any other outfit/org by the firm without permission of HIT.
 - (9) Quality Assurance and Control (QAC) documents consist of following criteria:
 - (a) Stage inspection.
 - (b) International standard/ specification.
 - (c) Part inspection criteria.
 - (d) Assembly inspection criteria.
 - (10) Firm will submit complete development/ control plan in form of Gantt chart etc with technical offer, encompassing all the stages of development cycle along with technical course to be adopted as mentioned above along with the technical offer. The control Plan is basically an outline of how the participating manufacturing firm verifies fulfillment of the requirement of this IT. The Control Plan shall summarize the control techniques used from receipt of raw materials to shipment of product. Test/ Inspection characteristic values shall be identified in the development process. The initial control plan shall be established prior to qualification and shall reflect the product and process controls to be used for manufacturing of the items. The control plan shall be in chart form and reflect the following:-
 - (a) Supplier Name
 - (b) Process or Product Name, and number
 - (c) Plan revision and revision date Operation number or process step, Process parameters and product characteristics, methods of control (e.g. gauge, test, equipment etc used), sample size and frequency, Analysis Method (e.g. control chart, lot plot, run chart, etc) and other important control information. The control plan shall address the test methods/ equipment used to meet the requirement of this IT.
- j. Firm will develop complete 3D Models manufacturing drawings, TDP, jigs & fixture as per requirement with the execution of contract.
 - k. Firms having excellent past record of supply / development history with **DESCOM** as far as quality and timely provision of store is concerned will be given preference.
 - l. Over writing and cutting of any nature in the quotation will not be accepted.
 - m. HEAVY INDUSTRIES TAXILA reserves its right to cancel the bidding process at any stage without justification/reason.

- n. In case of any dispute regarding the terms and conditions and the quality of stores, the decision of the Chairman HEAVY INDUSTRIES TAXILA Board will be considered as final.
- o. Indenter / purchaser reserves the right to increase/decrease the quantity of items, included in the tender without any reference to the firm.
- p. Heavy Industries Taxila, will not engage any other firm for development of same assembly during this period / quantity agreed, if all the requirements are met after commercial opening.
- q. Heavy Industries Taxila, will place contract with firm as per tendered quantity. For future requirement, rate will be decided by user factory as per procedure/rules in vogue.
- r. **Disqualification of Firms/ Vendors:** Heavy Industries Taxila, reserves its right to disqualify a vendor/ firm if it finds, at any time that the information submitted by them concerning qualification as vendor/ firm are false and materially inaccurate or incomplete.

4. **INSTRUCTIONS FOR SUBMISSION OF TECHNICAL PROPOSAL:**

- a. Willingness for development of a particular item / assembly.
- b. **Tender fee Rs 600/-** in shape of Cash / Postal Order (non refundable) must be attached with Technical Quotation of each item separately in favour of Budget and Account Officer (B&AO) DESCOM, failing which the Technical Quotation will stand rejected.
- c. Participating firms are required to furnish Federal Board of Revenue (FBR) registration certificate as manufacturer/ developer along with technical proposal and clearly mention their National Tax No (NTN) on Technical Quotation, the in process applications should also be included if any, failing which the Technical Quotation will stand rejected.
- d. Technical quotation must be signed and stamped by authorized representative of firm.
- e. The quotee firms will be required to explain / clarify the availability of technical infrastructure, human resources to undertake development of the required items or provide certificate of collaboration with other firms who have facilities, which are not held with quotee firm. Following are guide lines:-
 - (1) Design / Development cell
 - (2) Availability of requisite machines and equipment for manufacturing.
 - (3) Tools, gauges and test equipment.
 - (4) Technical manpower.
 - (5) Quality Control Cell
 - (6) Expertise in relevant field of manufacturing.
 - (7) Complete manufacturing process of item/assemblies.

5. **INSTRUCTIONS FOR SUBMISSION OF FINANCIAL PROPOSAL:**

- a. The bidder / bidders will clearly mention on quotations that quoted rates are exclusive / inclusive of General Sales Tax (GST) / other duties. If no such condition is included in financial quotation it will be assumed that quoted rates are inclusive of GST / other duties / taxes.
- b. The bidder / bidders will also confirm that all terms / conditions mentioned in IT are accepted.

6. **Tender Sample:** After financial opening the lowest bidder will be bound to develop and offer the Tender sample within time period mentioned in Annexure "A", unless otherwise specified, and on successful development of Tender sample, contract will be awarded to firm. In case of failure contract may be awarded to the 2nd lowest bidder, after the approval of Board of officers.

7. The bidders will confirm acceptance of the following terms and conditions:-
- a. **CORRESPONDENCE ADDRESSES.** All kinds of correspondence regarding quotations, contract supply of store and clarifications shall be directed to Managing Director DESCOM Heavy Industries Taxila, Taxila Cantt.
 - b. **DELIVERY OF STORES** Store-1 Development Group DESCOM Heavy Industries Taxila, Taxila Cantt.
 - c. **INSPECTION AUTHORITY:** The Inspection Authority will be the Managing Director DESCOM, Heavy Industries Taxila, Taxila Cantt. Inspection will be carried out at DESCOM as well as at the firm premises. MD DESCOM can nominate an inspection team of DESCOM and /or any appropriate private / public sector inspection /testing organization at his discretion. Expenditure in such cases will be borne by the firm.
 - d. **STAGE INSPECTION:**
 - (1) Stage inspections will be carried out at manufacturing unit premises. The frequency of stage Inspection will be decided by managing Director DESCOM, keeping in view the complexity and nature of manufacturing process involved. All arrangement of these inspections and related tests is the responsibility of the manufacturer/developers.
 - (2) DESCOM has the right to get material samples during manufacturing stages with or without prior notice to confirm the quality consistency.
 - (3) DESCOM has the right to destroy one part / assy at firm cost for random quality assurance.
 - e. **VALIDITY.** Validation of the quotation will be 12 x months from the date of opening of financial quotation and till acceptance of the contract by both parties (Developer and DESCOM Heavy Industries Taxila).
 - f. **GUARANTEE/WARRANTEE:**
 - (1) A Guarantee/Warranty certificate will also be submitted along with the supplies by the supplier and will be **valid for three years or 1650 Kilometers (KMs) of track mileages**, whichever is earlier. It will commence from the date of the satisfactory fitment and function of the part/assembly/stores in the tank / vehicle/ equipment with the ultimate user.
 - (2) If any fault is detected in the part/stores at any stage within guarantee / warrantee period same will be returned to the firm and will be replaced by supplier. All related costs to this effect and the freight charges will be borne by the supplier.
 - g. **PACKING:** Supplier will use following packing for the supply of stores:-
 - (1) Each item will be packed in polythene bag duly preserved. Such bags will be packed in strong cartons. These cartons will be further packed in wooden cases of **kail** wood planks ½" thick.
 - (2) Strong carrying handles will be provided for each box.
 - (3) Weights of each case/box will not EXCEED 25 Kilo grams.
 - (4) Firm will use the special packing to preserve/protect the precision/highly finished surface of the products.
 - h. Payment will be released after clearance of inspection note and acceptance certificate from the user factory. Delays in payment can be up to six months after receipt of stores to complete the inspection / acceptance / fittings formalities.
 - j. Advance payment if applicable as per rules will be recovered in initial batches of supplies of delivered store, till all the advance is recovered

- k. Sales tax / other duties will be payable on actual by Controller of Military Account (CMA) Heavy Industries Taxila, Taxila Cantt / Budget Directorate / Budget & Account Officer (DESCOM) on submission of original documents.
- l. The development work may be started only on receipt of signed contract / Letter of Intent (LOI) from Development Group DESCOM Heavy Industries Taxila, Taxila cantt.
- m. Contracting agency / DESCOM Heavy Industries Taxila will reserve the right to carryout surprise check at manufacturer premises as a part of stage inspection.
- n. Late delivery charges will be imposed at the rate of 2% per months & Max 10% of total value of late delivered store, if delivery schedule in not met.
- o. HIT will reserve all the proprietary rights of developed items.
8. **Bank Guarantees against Contract Performance/Warranty Period:** The Developer shall furnish a 5% bank guarantee /Call Deposit Receipt (CDR) along with signed /stamped contract from scheduled bank in Pakistan against the total value of contract including taxes/duties. This bank guarantee/ CDR will remain valid as per warranty /guarantee clause. Bank Guarantee / Call Deposit Receipt will be released after completion of warranty period of store.
9. **Delivery Period**
- a. **Tender sample:** Contract will be awarded after approval of tender sample, with in time period mentioned in Anx-A, unless otherwise specified from the date of opening of commercial proposals. Best Evaluated bidder is bound to provide material samples within one week after opening of commercial proposal.
- b. **Bulk:** Within 06 to 18 x months after approval of tender sample and signing of contract depending upon complexity of the tender item /parts /assembly.
10. **Technical Evaluation Criteria:** Following criteria will be adopted for evaluation of Technical Quotations of firms:-

Details		Marks	Remarks
a.	Engineers	10	(1 Mark for Engineer & 0.5 Mark for Diploma of Associate Engineering)
b.	Test Lab	15	Cat A:(15) Precision Metrology equipment and adherence of international/testing std i.e. ASTM etc. Should have capability for Destructive & Non Destructive Test. Heat Treatment & related Treatment including Surface Treatment Test facility where required.
			Cat B:(10) Spectro analysis, Hardness testing, Ultrasonic/x-ray crack detection facilities.
			Cat C:(05) Spectro scopic analysis & hardness tests cap.
c.	Quality Assurance System	15	Should have well established Quality Management system involving Quality Control & Quality Assurance department and development of Quality Control document.
d.	Capacity	10	Development of Control Plan encompassing all aspects from raw material to end products.
e.	Capability	20	The number and type of engineering processes e.g. Machining, forging casting, molding, stamping, Heat Treatment, Surface treatment etc.
f.	Design/ Drawing Facility	15	Cat A: (15) Design drawing, Manufacturing drawing, Assembly drawing Capability to define High Precision Heat Treatment and Surface Treatment processes and other treatment processes as per end product.
			Cat B: (10) Manufacturing Drawing, Assembly drawing, Capability to define appropriate Heat Treatment, Surface Treatment processes.

			Cat C: (05)	Assembly Drawing Capability to define reasonable Heat Treatment process, Ability to define surface treatment process where required.
g.	Financial Strength/ Profile	10		
h.	Project Under Taken	5		
j.	Past performance of the Firm	25		Previous performance %age x 25
Total		125		

11. **Award of Contract:** Contract will be awarded to most advantageous bidder.

12. **FIRM'S DECLARATION:** I/ We have studied and understood the instruction of tender inquiries and all conditions. I/ we have thoroughly examined the specifications/drawings/samples provided and fully aware about the nature of stores required and my/our offer to develop and supply of stores is strictly in accordance with the requirement. In case of any doubt, interest of state shall be kept foremost.

13. The participating firm must provide agreement on meeting all clauses of the IT in technical offer.

INDENTER: **Managing Director DESCOM Heavy Industries Taxila,
Taxila Cantt**

TENDERED BY "DEVELOPMENT GROUP" DESCOM HEAVY
INDUSTRIES TAXILA, TAXILA CANTT

Anx-A

S #	IT No & Date	Part No	Nomenclature	Qty Req		Equipme nt	Delivery Time																																				
				Tender Sample	Bulk		Tender Sample (Months)	Bulk (Months)																																			
1	T/495 dt 03-5-21	478DU2-55-200Sb	Caterpillar Track Installation (Metallic Portion in Forging)	1 Set	2 Sets	Tr Veh	04	06																																			
	<p>1x Set is Consist of 8x Items as per fol detail:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Sr No</u></th> <th style="text-align: left;"><u>Part No</u></th> <th style="text-align: left;"><u>Nomenclature</u></th> <th style="text-align: left;"><u>Qty/ Set</u></th> <th></th> </tr> </thead> <tbody> <tr> <td>a.</td> <td>478DU2-55-230Sb</td> <td>Track Link (Forged)</td> <td>330</td> <td rowspan="8" style="text-align: center; vertical-align: middle;">5% Additional Qty per set also required</td> </tr> <tr> <td>b.</td> <td>478DU2-55-240Sb</td> <td>Track Pin (Forged)</td> <td>330</td> </tr> <tr> <td>c.</td> <td>478DU2-55-202</td> <td>Ridge (Forged)</td> <td>160+2</td> </tr> <tr> <td>d.</td> <td>478DU2-55-203</td> <td>Shoe (Forged)</td> <td>160+2</td> </tr> <tr> <td>e.</td> <td>478DU2-55-204</td> <td>Cramp</td> <td>320+6</td> </tr> <tr> <td>f.</td> <td>478DU2-55-206</td> <td>Bolt</td> <td>320+10</td> </tr> <tr> <td>g.</td> <td>478DU2-55-207</td> <td>Bolt</td> <td>160+4</td> </tr> <tr> <td>h.</td> <td>478DU2-55-208</td> <td>Washer</td> <td>320+8</td> </tr> </tbody> </table> <p>Track Assembly is required in Forging and no sub part is required to be in casted form. Will undergo through extensive test/ trials as per OEM Standard / user requirements, for endurance / sustainability of developed track.</p>								<u>Sr No</u>	<u>Part No</u>	<u>Nomenclature</u>	<u>Qty/ Set</u>		a.	478DU2-55-230Sb	Track Link (Forged)	330	5% Additional Qty per set also required	b.	478DU2-55-240Sb	Track Pin (Forged)	330	c.	478DU2-55-202	Ridge (Forged)	160+2	d.	478DU2-55-203	Shoe (Forged)	160+2	e.	478DU2-55-204	Cramp	320+6	f.	478DU2-55-206	Bolt	320+10	g.	478DU2-55-207	Bolt	160+4	h.
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2	T/496 dt 03-5-21	478DU2-51-330sb	Disk with Tyre 670 x 170 (Re-Rubberization)	5	1440	Tr Veh	04	18																																			
	<p>Metallic Disk will be provided for re-rubberization in batches. 6 hours and 48 hours drum test of random samples will be conducted from each batch of bulk supply. Assistance from ITD and IV&EE will be sought for field trials if deem necessary. Cost of test will be borne by firm. Following are Mechanical properties parameters as per std WZ120-JT71:-</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>S/No</u></th> <th style="text-align: left;"><u>Parameters</u></th> <th style="text-align: left;"><u>Specified values (Minimum)</u></th> </tr> </thead> <tbody> <tr> <td>a.</td> <td>Tensile Strength (Kg/cm²)</td> <td>100</td> </tr> <tr> <td>b.</td> <td>Elongation%</td> <td>160%</td> </tr> <tr> <td>c.</td> <td>Hardness</td> <td>70~85</td> </tr> <tr> <td rowspan="2">d.</td> <td>Mod 100% of Elongation (Kg/cm²)</td> <td>55</td> </tr> <tr> <td>Mod 200% of Elongation (Kg/cm²)</td> <td>-</td> </tr> <tr> <td>e.</td> <td>Compression Set%</td> <td>15%</td> </tr> <tr> <td>f.</td> <td>Aged Tensile Strength (Kg/cm²)</td> <td>90</td> </tr> <tr> <td>g.</td> <td>Aged Elongation (70°C x 24hrs)</td> <td>140%</td> </tr> <tr> <td>h.</td> <td>Adhesion Test Kg/Inch of Width</td> <td>119.4</td> </tr> <tr> <td>j.</td> <td>Adhesion after ageing Kg/Inch of Width</td> <td>106.68</td> </tr> <tr> <td colspan="3">Ozone Test Qualification</td> <td></td> </tr> </tbody> </table>								<u>S/No</u>	<u>Parameters</u>	<u>Specified values (Minimum)</u>	a.	Tensile Strength (Kg/cm ²)	100	b.	Elongation%	160%	c.	Hardness	70~85	d.	Mod 100% of Elongation (Kg/cm ²)	55	Mod 200% of Elongation (Kg/cm ²)	-	e.	Compression Set%	15%	f.	Aged Tensile Strength (Kg/cm ²)	90	g.	Aged Elongation (70°C x 24hrs)	140%	h.	Adhesion Test Kg/Inch of Width	119.4	j.	Adhesion after ageing Kg/Inch of Width	106.68	Ozone Test Qualification		
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3	T/497 dt 03-5-21	BW122C-02-07	Water Radiator	1	30	Tr Veh	06	18																																			
4	T/498 dt 03-5-21	11669369	Radiator Engine A2	1	50	Tr Veh	06	18																																			
5	T/499 dt 03-5-21	478D-32-030sb	Oil Radiator	1	3	Tr Veh	06	12																																			
6	T/500 dt 03-5-21	478D-32-020Sb	Engine Oil Radiator	1	12	Tr Veh	06	12																																			
7	T/501 dt 03-5-21	478D-31-010Sb-1	Right Water Radiator	1	4	Tr Veh	06	12																																			
8	T/502 dt 03-5-21	478D-31-020Sb-1	Left Water Radiator	1	4	Tr Veh	06	12																																			
9	T/503 dt 03-5-21	434-38-002Sb	Calorifer Radiator	1	10	Tr Veh	06	12																																			

On vehicle summer trials of all radiators at ambient temperature of 45°C and above will be conducted for performance evaluation.								
10	T/504 dt 03-5-21	KY7-10	3rd Stage Cylinder	3	195	Tr Veh	04	18
		KY7-23	1st Stage Cylinder	3	420			
		KY7-241	Expending Ring 1st Stage	12	1560			
		KY7-242	Expending Ring 2nd Stage	12	1560			
		KY7-243	OS Expending Ring 1st Stage	3	390			
		KY7-351	OS Expending Ring 3rd Stage	3	390			
		KY7-352	Expending Ring 3rd Stage	15	1950			
		KY7-353	Expending Ring 3rd Stage	18	2340			
		KY7-354	OS Expending Ring 3rd Stage	3	390			
6x hours test will be conducted for performance evaluation as per OEM Standard for complete assembly								
11	T/505 dt 03-5-21	478DU-60-110sb	Solenoid Operated Pneumatic valve	02	30	Tr Veh	04	12
	Developed sample will be tested at Test bench and on vehicle trials will also be carried out for performance as per OEM Standard							
12	T/506 dt 03-5-21	11646782	Track Shoe Vehicular (Forged + Rubberized)	5	127	Tr Veh	04	08
	Track Shoe Vehicular is required in Steel Forging 1345H or 4140H in accordance with specification MIL-S-13048 and Rubberization as per MIL-T-11891, which will gone through extensive test/ trials as per OEM Standard.							
13	T/507 dt 03-5-21	459-05Sb-5	Air Compressor	1	10	Tr Veh	06	12
14	T/508 dt 03-5-21	459-43Sb-3	Oil Extraction Pump	1	10	Tr Veh	06	12
15	T/509 dt 03-5-21	457-86Sb-7	Fuel Filter	1	10	Tr Veh	04	12
16	T/510 dt 03-5-21	457-18-001Sb-4	Batch Box	1	10	Tr Veh	04	12
17	T/511 dt 03-5-21	457-29Sb-2	Heater	1	10	Tr Veh	04	12
18	T/512 dt 03-5-21	434-18-001sb-2	Conveyer	1	6	Tr Veh	06	10
19	T/513 dt 03-5-21	434-23-012sb-2	TTM Electromagnet	1	30	Tr Veh	06	12
20	T/514 dt 03-5-21	478B-82-070sb	FFE Sys Installation	1	24	Tr Veh	06	12
21	T/515 dt 03-5-21	434-94-160sb-1	Mount Installation	1	90	Tr Veh	06	12
22	T/516 dt 03-5-21	447A-94-920sb	Cradle	1	18	Tr Veh	06	12
23	T/517 dt 03-5-21	478DU-04-140sb-1	Shelf	1	6	Tr Veh	04	10
24	T/518 dt 03-5-21	Gost 8338 -75	Bearing 142318M	1	108	Tr Veh	04	12
25	T/519 dt 03-5-21	478DU2-52-260sb	Rod	1	36	Tr Veh	04	12
26	T/520 dt 03-5-21	478DU2-52-290sb	Control Valve Frame	1	36	Tr Veh	04	12
27	T/521 dt 03-5-21	478A-54-010sb-1	Labyrinth Disk	1	8	Tr Veh	04	12
28	T/522 dt 03-5-21	FPT-100B VA 8772 000TU	FVU Installation	1	30	Tr Veh	04	12
29	T/523 dt 03-5-21	478D-83-040sb	Air intake unit	1	6	Tr Veh	04	10
30	T/524 dt 03-5-21	478DU-29-250sb-1	Pipe with Union	1	30	Tr Veh	04	12
31	T/525 dt 03-5-21	478B-32-020sb-1	Motor Oil Tank	1	2	Tr Veh	04	06
32	T/526 dt 03-5-21	476-40-023-1	Booster	1	60	Tr Veh	04	12
33	T/527 dt 03-5-21	Gost 8338-75/ETU-500	Bearing 20-782726M	1	60	Tr Veh	04	12
34	T/528 dt 03-5-21	478DU2-44-050sb	Tachogenerator and Speedometer Sensor	1	30	Tr Veh	04	12

35	T/529 dt 03-5-21	476-46-010sb-1	Force Pump	1	24	Tr Veh	04	12
36	T/530 dt 03-5-21	478BE-60-040sb	Valve	1	30	Tr Veh	04	12
37	T/531 dt 03-5-21	478B-61-170sb	Engine switching	1	24	Tr Veh	04	12
38	T/532 dt 03-5-21	478BE-62-010sb	Right Distribution Gear	1	2	Tr Veh	04	10
39	T/533 dt 03-5-21	478BE-62-020sb	Left Distribution Gear	1	2	Tr Veh	04	10
40	T/534 dt 03-5-21	434-36-011sb-2	Boiler	1	6	Tr Veh	04	10
41	T/535 dt 03-5-21	478DU2-52-220sb	Shock Absorber	1	5	Tr Veh	04	10
42	T/536 dt 03-5-21	478DU2-52-230sb	Shock Absorber	1	5	Tr Veh	04	10
43	T/537 dt 03-5-21	478DU2-52-240sb	Shock Absorber	1	5	Tr Veh	04	10
44	T/538 dt 03-5-21	434-36-089	Super Charger	1	5	Tr Veh	04	10
45	T/539 dt 03-5-21	478BE-35-010sb	Receiver	1	3	Tr Veh	04	10
46	T/540 dt 03-5-21	476-64-030sb-1	Servo Mechanism	1	3	Tr Veh	04	10
47	T/541 dt 03-5-21	ETU 500	Bearing 654728	1	9	Tr Veh	04	10
48	T/542 dt 03-5-21	478DU2-51-230sb	Balance Beam	1	9	Tr Veh	06	12
49	T/543 dt 03-5-21	478DU2-51-240sb	Balance Beam	1	5	Tr Veh	06	12
50	T/544 dt 03-5-21	478DU2-51-250sb	Balance Beam	1	5	Tr Veh	06	12
51	T/545 dt 03-5-21	478D-02-330sb	Net Installation Radiator	1	18	Tr Veh	04	12
52	T/546 dt 03-5-21	478D-34-100sb	Cassette	1	60	Tr Veh	04	12
53	T/547 dt 03-5-21	478D-34-110sb	Cassette	1	60	Tr Veh	04	12
54	T/548 dt 03-5-21	478D-34-120sb	Cassette	1	60	Tr Veh	04	12
55	T/549 dt 03-5-21	478D-34-130sb	Cassette	1	60	Tr Veh	04	12
56	T/550 dt 03-5-21	478B-08-005	Gasket	1	90	Tr Veh	04	12
57	T/551 dt 03-5-21	478DU2-51-280sb	Cover	1	360	Tr Veh	04	12
58	T/552 dt 03-5-21	434-52-066	Spring	1	2880	Tr Veh	04	12
59	T/553 dt 03-5-21	432-40-008sb-4	Disc with ceramic metal	1	1200	Tr Veh	04	18
60	T/554 dt 03-5-21	432-40-203sb-3	Disc with ceramic metal	1	780	Tr Veh	04	18
61	T/555 dt 03-5-21	432-40-071-1	Disc with external Teeth	1	960	Tr Veh	04	18
62	T/556 dt 03-5-21	459-33Sb-1	Connecting Rod	1	180	Tr Veh	06	18
63	T/557 dt 03-5-21	459-52-500sb-1	Rotor of super charger	1	27	Tr Veh	06	12
64	T/558 dt 03-5-21	459I-61sb	Rotor	1	27	Tr Veh	06	12
65	T/559 dt 03-5-21	459-05-008sb-1	Cylinder of 3rd stage	1	30	Tr Veh	06	12
66	T/560 dt 03-5-21	457I-05-006sb	Cylinder of 2nd stage	1	30	Tr Veh	06	12
67	T/561 dt 03-5-21	459-28-300sb	Air Pressure Regulator	1	30	Tr Veh	06	12
68	T/562 dt 03-5-21	478B-94-080sb	Rotary Transformer 2.5 VT clutch	1	30	Tr Veh	06	12
69	T/563 dt 03-5-21	478DU2-51-320sb	Axle	1	180	Tr Veh	06	18
70	T/564 dt 03-5-21	478DU2-52-250sb	Main Frame	1	72	Tr Veh	06	12
71	T/565 dt 03-5-21	478DU2-54-240sb	Ring	1	48	Tr Veh	06	12
72	T/566 dt 03-5-21	478DU2-29-050sb	Refill Tank	1	30	Tr Veh	06	12
73	T/567 dt 03-5-21	434-36sb-3	Heating system	1	30	Tr Veh	06	18
74	T/568 dt 03-5-21	434-40-203sb-3	Disk with metaloceramics	1	240	Tr Veh	06	12
75	T/569 dt 03-5-21	478D-34-020sb-1	Air Cleaner	1	6	Tr Veh	06	12
76	T/570 dt 03-5-21	478DU-02-180sb	Output Louvers	1	8	Tr Veh	04	10
77	T/571 dt 03-5-21	478B-33-291	Pump RNM-1	1	30	Tr Veh	06	12
78	T/572 dt 03-5-21	478B-21-010sb	UVKV Drive Installation	1	8	Tr Veh	06	12

79	T/573 dt 03-5-21	478B-05-011	Right Plate	1	6	Tr Veh	04	08
80	T/574 dt 03-5-21	478B-03-050Sb	Hull Hatches	1	2	Tr Veh	04	08
81	T/575 dt 03-5-21	478B-04-400sb	Bar in Assy	1	6	Tr Veh	04	08
82	T/576 dt 03-5-21	478DU-04-004	Bracket	1	6	Tr Veh	02	06
83	T/577 dt 03-5-21	447A-15-910sb	Left Cushion	1	18	Tr Veh	04	08
84	T/578 dt 03-5-21	478B-83-830sb	Booster	1	2	Tr Veh	04	06
85	T/579 dt 03-5-21	478BE-70-020sb	Storage Battery Shell	1	30	Tr Veh	04	08
86	T/580 dt 03-5-21	476-70-017sb	Rear overall Dimensions	1	30	Tr Veh	04	08
87	T/581 dt 03-5-21	476-35-220sb	Top flange	1	3	Tr Veh	04	06
88	T/582 dt 03-5-21	476-40-120sb-1	Booster	1	12	Tr Veh	04	06
89	T/583 dt 03-5-21	478B-40-019	Booster	1	18	Tr Veh	04	06
90	T/584 dt 03-5-21	478B-43-007	Carrier	1	3	Tr Veh	04	06
91	T/585 dt 03-5-21	478BE-60-010sb	Gas Bag (Container)	1	3	Tr Veh	04	06
92	T/586 dt 03-5-21	TU25.02.1037-73	Manometer MT 60UP 250/170	1	30	Tr Veh	04	12
93	T/587 dt 03-5-21	434-36-018sb-2	Boiler Head	1	6	Tr Veh	04	06
94	T/588 dt 03-5-21	478D-83-050sb	Air intake unit	1	2	Tr Veh	04	06
95	T/589 dt 03-5-21	478BE-32-060sb	Transmission Oil Tank	1	3	Tr Veh	04	06
96	T/590 dt 03-5-21	478BE-91-020sb	Case	1	3	Tr Veh	04	06
97	T/591 dt 03-5-21	432-38-008sb-2	Fan	1	2	Tr Veh	04	06
98	T/592 dt 03-5-21	MZN-3 no TY OS-91	Oil Pump	1	2	Tr Veh	04	06
99	T/593 dt 03-5-21	434-33-095SGB	Pump BTSN-1	1	2	Tr Veh	04	06
100	T/594 dt 03-5-21	478DU-04-420sb	Board	1	6	Tr Veh	02	06
101	T/595 dt 03-5-21	476-83-350sb-1	Valve	1	2	Tr Veh	02	06
102	T/596 dt 03-5-21	476-32-840sb	Hose	1	30	Tr Veh	04	06
103	T/597 dt 03-5-21	BW122E-59-1-01	Fire Extinguishing Cable	1	110	Tr Veh	04	12
104	T/598 dt 03-5-21	457-15-005-4	Packing Ring	12	360	Tr Veh	02	12
		457-15-008-4	Packing Ring	12	1800			
		457-10-015-2	Packing Ring	12	1980			
105	T/599 dt 03-5-21	WA321D/01-23	Upper Packing Bush	02	110	Tr Veh	02	08
		WA321D/01-24	Packing Gasket	02	55			

Note:

1. Please read tender clauses carefully before submitting the quotations.
2. Submit Technical & Financial quote of each tender in separate envelope and also attach IT fee for each tender separately with Technical quotation.