

**ANNEX D TO
TENDER NO 06.06.0000.279.07.147.24
DATED 29 OCTOBER 2024**

TECHNICAL SPECIFICATION OF NITROGEN TRUCK QTY-01 IN FY 2024-25 FY (2024-2025)

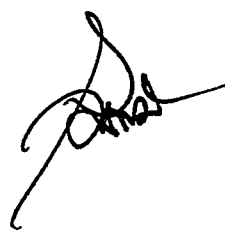
Ser no	Description	Specification Specified	To be filled up by the bidder
1.	Name of the Equipment	Nitrogen Truck with Compressor.	
2.	Purpose/Utility	<p>a. The Nitrogen Truck is to be capable of charging fighter/Jet aircraft (Yak-130, MiG-29, K-8, F-7 Series aircraft system & its missile system and AW-139).</p> <p>b. The Nitrogen Truck must have provision of charging its bottles from any outside compressed nitrogen source.</p> <p>c. The Nitrogen Truck must have compressor to build-up required pressure up to 400 kg/cm² to charge missile system of the aircraft.</p> <p>d. The Nitrogen Truck must have the provision to transfer nitrogen gas from one bank to another bank of Nitrogen bottles when pressure of the bottles decreases.</p>	
3.	Brand and Model	To be mentioned by the bidder.	
4.	Country of Origin	USA/ UK/ Canada/ Japan/ Australia/ EU Countries.	
5.	Compressor for Nitrogen Truck		
	a. Type	To be mentioned by the bidder.	
	b. Brand & Model	To be mentioned by the bidder.	
	c. Country of Origin	USA/ UK/ Canada/ Japan/ Australia/ EU Countries.	
	c. Delivery pressure	Up to 400 kg/cm ² (adjustable).	
	d. No of Cylinder	To be mentioned by the bidder.	
	e. Arrangement of cylinder	Horizontal.	
	f. Weight of compressor	To be mentioned by the bidder.	
	g. Over pressure protection system	Must have over pressure protection system.	
	h. Power consumption by the compressor	Above 12 KW from the truck engine.	
	j. RPM of compressor	To be mentioned by the bidder.	
k. Flow rate of the compressor	Minimum 200 Liter/Minute.		

6.	Features of Nitrogen Bottles	<p>a. Capacity of each bottle: Minimum 40 liter or 8.98m³.</p> <p>b. Number of Bottles with Knob: The Nitrogen truck must have at least 04 banks of Nitrogen bottles. Each bank must have at least 05 bottles. There must be provision in the Nitrogen truck so that its bottle pressure (250kg/cm²) can be reduced to provide variable pressure of 150kg/cm² - 230 kg/cm² to different systems of the aircraft by passing the compressor.</p> <p>c. Working pressure capacity 350kg/cm².</p> <p>d. Testing pressure capacity: Testing capacity 500 kg/cm².</p> <p>e. Outer diameter of each bottle: To be mentioned by the bidder.</p> <p>f. Bottle Length: To be mentioned by the bidder.</p> <p>g. Bottle should be flat bottom.</p> <p>h. Bottle testing frequency (After how many year): To be mentioned by the bidder.</p>	
7.	Nitrogen Delivery Hose	<p>a. 70 feet minimum with connector compatible to aircraft (Yak-130, MiG-29, F-7 Series).</p> <p>b. 02 x hose for charging and 02 x hose for delivery.</p>	
8.	Control board	<p>a. Pressure gauge for each bottle group.</p> <p>b. Sufficient pressure control knob for each bottle group.</p> <p>c. Pressure control knob for charging, releasing and bypass system.</p> <p>d. Standard lighting system.</p> <p>e. Compressor engage lever.</p> <p>f. Compressor RPM knob.</p> <p>g. Sufficient lighting system.</p> <p>h. Low and high pressure releasing valve.</p> <p>j. Safety valve.</p>	
9.	Power Take Off (PTO) Gear box	PTO gear box system to engage & disengage the Compressor.	
10.	Canopy of the Truck	The control equipment should be fully protected from rain/sun. It should be capable to operate in hot humid and monsoon weather.	
11.	Noise control system	A noise reduction kit should be fitted to reduce the noise level while operating the truck.	
12.	Prime Mover:		
	a. Brand	To be mentioned by the bidder.	
	b. Model	To be mentioned by the bidder.	
	c. Country of Origin	USA/UK/Canada/Japan/Australia/EU Countries.	
13.	Drive Type	4 x 4 WD, Right Hand Drive.	

14.	Engine for Prime Mover:	
	a. Brand	To be mentioned by the bidder.
	b. Model	To be mentioned by the bidder.
	c. Country of Origin	USA/UK/Canada/Japan/Australia/EU Countries.
	d. Engine type	Diesel, 4 stroke cycle, 4 cylinders (minimum) in line.
	e. Horse Power	Minimum 160 HP or more (But bidder is to mention the actual HP of the engine of Nitrogen Truck).
	f. Compression Ratio	To be mentioned by the bidder.
	g. Engine displacement	To be mentioned by the bidder.
	h. Rated RPM	To be mentioned by the bidder.
	j. Fuel consumption	To be mentioned by the bidder.
	k. Cooling system	Water cooled.
	l. Electric system	12/24 VDC (For starting, lighting, instrument system).
	m. Battery capacity	To be mentioned by the bidder.
	n. Fuel tank capacity	Not less than 100 Ltrs (Bidder is to mention the actual capacity of the Fuel Tank).
15.	Vehicle Dimension	a. Overall Length: To be mentioned. b. Overall Width: To be mentioned. c. Overall Height: To be mentioned.
16.	Weight of Vehicle	a. Curb weight: To be mentioned. b. Payload: To be mentioned. c. Gross Vehicle Weight: To be mentioned.
17.	Tyre & Wheels of the Truck	a. Number of Wheels of the Truck: To be mentioned by the bidder b. Tyre size: To be mentioned by the bidder.
18.	Brakes	To be mentioned by the bidder.
19.	Driving Speed/Number of Gear	a. Maximum driving speed: At least 60 KM/H b. Number of gears and reverse gear: To be mentioned by the bidder.
20.	Body & Chassis	a. Body must be of steel and fabricated with steel chassis in international standard. b. The Nitrogen truck must be fitted with foot step at both side of the driver cabin door. c. The Nitrogen truck must have mudguard flaps rear of each wheel. d. Ground clearance of chassis should not be less than 300 mm.
21.	Driver's Cabin	a. Cabin height should be more than rear side canopy. b. The Nitrogen truck must have standard viewing mirror. c. Driver's cabin should be made of steel sheet. d. Driver's cabin must have three seats. e. Driver's cabin should have 02 x doors with locking facilities and 02 side windows. f. Interior lighting system must be fitted in the driver's cabin. g. Cabin should be air conditioned.

22.	Towing hooks	Towing hooks with locking facilities should be fitted in the front and rear of the Nitrogen truck.	
23.	Metallurgical Treatment	Anti corrosive treatment must be given on all parts of the Nitrogen Truck to prevent corrosion.	
24.	Lighting system	The following lighting system must be available: a. Head light. b. Side light/Parking light. c. Turning indicator light. d. Dash board light. e. Number plates light rear only. f. Brake light. g. Clearly visible flashing beacon light on top of the cabin h. Navigation (NAV) light qty-04 (02 x blue for front and 02 x red for rear corner) on roof. j. Reverse gear driving light with buzzer. k. Fog light for foggy/rainy weather.	
25.	Electric equipment	The following electric items must be available: a. Circuit breaker in all valuable electric equipment. b. Cabin fan motor. c. Speedometer. d. Oil pressure gauge. e. Coolant temperature gauge. f. Fuel level float arm. g. Air pressure gauge. h. Ammeter. j. Wind shield wiper. k. Fuel level gauge. l. Reverse camera with display in the cabin.	
26.	List of spares, tools and publications:	a. Standard set of tools box for Nitrogen Truck: Set-01 (Bidder is to mention the list of the tools with qty). b. Jack with handle (7 to 10 ton): qty-01. c. Wheel remover: qty-01. d. Fire extinguisher (Dry chemical powder 05 to 10 Kg): qty-01. e. Ignition key: qty-02. f. Spare tyre with wheel drum: qty-01	
27.	Publications	a. Manual covering maintenance and overhauling information of engine, compressor, chassis and also circuit diagram of all electrical system of Nitrogen Truck (in English): Qty-03. b. Illustrated Parts Catalogue for engine, compressor and chassis of Nitrogen Truck (in English): Qty-03. c. Driver's/Owner/Operation manual (book type, all in English): Qty-03. d. Initial test certificate of the bottles. e. Nitrogen bottle next capacity test certificate.	

28.	Standard Fittings	a. All safety devices are to be incorporated as per the international standard. b. All types of fittings are to be done by the manufacturer as per the requirement of the user. c. Any other things required to operate the Nitrogen Truck smoothly to be provided by the bidder within the quoted price.	
29.	The supplied Nitrogen truck must be equipped with all standard fittings and accessories.		



TECHNICAL TERMS & CONDITIONS FOR PROOCUREMENT OF NITROGEN TRUCK FY (2024-2025)

The bidder is to mention "Comply/Not Comply/Appropriate Remarks against each terms & condition mentioned below. Otherwise the quotation will not be accepted.		
Ser No	Description	To be Filled up by the Bidder
1.	Authorization certificate (original) in favor of the Principal by the OEM is to be submitted along with the offer in English language.	
2.	Authorization certificate (Original) in favor of the local agent by the principal is to be submitted alongwith the offer in English language.	
3.	The supplier/ manufacturer is to provide Original Equipment Manufacturers (OEM) certificate mentioning the date (month and year) of manufacturing of the Nitrogen Truck in English language.	
4.	The supplied Nitrogen Truck should be capable of operating in all-weather condition. A certificate in this regard is to be submitted along with the offer in English language.	
5.	The bidder is to mention in the offer whether the manufacturer is ISO certified or not. A certificate in this regard is to be submitted along with the offer in English language.	
6.	A complete set of tool kit and all accessories are to be supplied along with the Nitrogen Truck for full range operations within the quoted price. In this regard, a list of tool kit and all accessories is to be submitted along with the offer.	
7.	The bidder is to quote the cost of fast and slow-moving consumable spares separately which will be required for the first two years of maintenance. BAF will have the option to accept/reject part or entire list of the spares.	
8.	Original technical brochure/booklet of the Nitrogen Truck is to be submitted along with the offer in English language. Offered technical specifications must conform to the specifications mentioned in the submitted brochure/catalogue. Fax /photocopy/ hand-written offer/ catalogue/ brochure and catalogue without marking/ signing will not be considered.	
9.	All types of marks/indications/instruction must be engraved in English language on the body of the Nitrogen Truck.	
10.	Three copies of operation and maintenance manual including soft copies are to be supplied along with Nitrogen Truck in English language by the bidder. The supplied manual must contain construction of the Nitrogen Truck, operation, safety procedure, storage condition and serviceability ensuring procedures.	
11.	Item must be brand new, unused and latest product (not earlier than the year of 2024) with necessary accessories and standard fittings.	
12.	The supplier/manufacturer is to provide Quality Assurance Certificate of the Nitrogen Truck in English language.	
13.	Hand-written offer and any written clarification will be rejected. It must be typed and printed in the original pad of the manufacturer, principal and local agent duly signed by the authority.	
14.	Delivery of the Nitrogen Truck is to be completed within 300 days after signing the contract	
15.	The item/items must be supplied in standard Air/Sea worthy packing.	



16.	The bidder is to provide following publications including soft copy in English language with the equipment free of cost. a. Operation and technical manual. b. Maintenance, troubleshooting and repair manual. c. Illustrated Parts Catalogue (IPC) of all supplied Nitrogen Truck.	
17.	The port of shipment must be from the manufacturer's country.	
18.	The supplier/manufacturer is to submit the list of spares required for 10 years operations after warranty period. Supplier will also provide a guarantee of availability of spares of the Nitrogen Truck in local market for 10 years. A guarantee certificate in this regard is to be submitted along with the offer in English language .	
19.	After-sales service should be available with the local agent of the supplier and is to be provided as and when required for 10 years (free of charge up to the warranty period and thereafter on payment). A guarantee certificate in this regard is to be provided by the local agent along with the offer in English language .	
20.	A Warranty/Guarantee for 24 months is to be provided by the supplier from the date of acceptance of the Nitrogen Truck in BAF. The period of warranty will stop from the date of reporting discrepancy. The period of warranty will resume after receipt of serviceable/replaced Nitrogen truck to make the total warranty period of 24 months.	
21.	If the Nitrogen Truck or any parts of the Nitrogen Truck is found unserviceable/unsuitable/ damaged/defective during pre-receipt inspection or after receipt or within the warranty/guarantee period, the supplier is to replace the same at his own cost and charges within 60 days from the date of such reporting. Periods of unserviceability for more than 60 days will be added to the total warranty period.	
22.	Pre-Shipment Inspection (PSI) of the vehicle will be carried out by 02 x BAF personnel {01 x Engineering Officer and 01 x BAF technician of E&I (elec) trade} for the duration of 05 working days (excluding journey period) at least 60 days before date of shipment. All cost related to PSI team including both ways air ticket, food and accommodation and other related charges will be borne by BAF. However, the supplier is to arrange local transport, medical and all the admin formalities of the team. The supplier is to extend all possible assistance to the team for checking the documentation including physical checking of the vehicle. The supplier should inform about the date of the pre-shipment inspection at least 08 weeks prior to the exact date of carrying out the pre-shipment inspection. During PSI, following will be checked: a. Visual inspection of the vehicle. b. Functional check of the vehicle as per technical specification. c. Documentation (log book, quality certificate etc) as per the contract.	
23.	Post Shipment Inspection/acceptance of the Nitrogen Truck will be carried out at BAF site in presence of representative of supplier's specialist/representative of local agent and representatives of BAF. In the process of post-shipment inspection/acceptance, the following shall be checked. a. Visual inspection of the Nitrogen Truck. b. Documentation: i. Shipping invoice/documents mentioning the name of the ship and port. ii. Manufacturer's certificates stating that the Nitrogen Truck is manufactured by them. iii. Quality certificate of the Nitrogen Truck duly signed by the manufacturer's quality inspector and the year of production is to be mentioned in the Quality Certificate. iv. All relevant manuals of individual equipment. c. Performance test of all the equipment (as applicable).	

24.	Practical and theoretical training for 05 working days on construction, operation, maintenance, troubleshooting and storage procedure of the supplied equipment is to be carried out locally for a group of BAF personnel by the supplier's own expert. The cost of training is to be quoted separately. BAF will have the option to accept/reject the training.	
25.	All the expenses including food, accommodation, medical etc of the supplier's specialists while staying at Bangladesh for imparting local training will be borne by the supplier. However, BAF may provide internal transportation only.	
26.	Bidders are to submit their Financial Offer (price quotation) in the offer separately mentioning as follows. a. Price of Nitrogen Truck including freight charge. b. Cost of training (which will be included in the financial part of the contract. BAF has the option to accept/reject the training	
27.	The bidder is to deliver the Nitrogen Truck at 201 MU, BAF within one month after customs clearance at Chattogram by the Embarkation Unit, BAF. The Nitrogen Truck is to be brought from Chattogram to Dhaka by the supplier's/ local agent's expense and arrangement.	
28.	Lowest technically accepted bidder will be selected considering the offered price of the following items: a. Price of Nitrogen Truck. b. Quoted price for local training.	
29.	Part-shipment and part-payment of the Nitrogen Truck will not to be accepted.	
30.	Original offer (with proper signing at every page) along with original brochure in English (02 x original copies for DGDP and 01 x original copy for Directorate of Supply and 01 x copy for Directorate of Engineering) of Nitrogen Truck having all the relevant information including color photographs of the GPU and equipment along with details of technical information with proper marking and sign, name, designation, telephone number, fax number, email and mail address must be submitted.	
31.	The bidder is to mention comply/not comply/appropriate remarks against each clause/serial-number of the Technical Specification and Terms & Conditions as per the sequence. Mentioning 'Comply' against any tender specification will be considered that the bidder is fully agreed with the requirement of that particular clause.	
32.	BAF may disqualify a bidder/supplier without any notice who has previous record of poor performance such as abandoning the job, not properly completing the contract, significant delay to supply the contracted items, litigation history of financial failures and non-submission of required certificates/ documents with the offer.	
33.	In case of failure to supply the contracted goods within stipulated time, BAF may cancel the contract.	
34.	BAF has right to reduce or increase the quantity of equipment/items at any stage before concluding the contract.	
35.	No price increment at any stage after submission of offer will be accepted by BAF.	
36.	Offer must remain valid till 30 June 2025 of the tender. Within the validity of the offer, withdrawal of offer or showing unwillingness to deliver the items by the bidder will not be accepted and in such cases subsequent action would be taken against the bidder as per DGDP rules.	
37.	Any other terms and conditions not covered here will be dealt with as per DGDP rules and regulations	

MISC TERMS & CONDITION OF PROC OF 37 X LINE ITEMS OF AIRCRAFT ARRESTING BARRIER IN FY 2024-25

The bidder is to mention "Comply/Not Comply/Appropriate Remarks against each terms & condition mentioned below. Otherwise the quotation will not be accepted.		
Ser No	Description	To be Filled up by the Bidder
1.	The bidder must mention the full address including Telephone number, Fax number and e-mail address in the offer. The bidder also mentions the name and full address (including Telephone number, Fax number and e-mail address) of the local agent (if any) in the offer.	
02.	Item with changed/ dissimilar part no/ description (if any) is to be mentioned during submission of offer.	
03.	If any change is required in contract/ LC due to fault of supplier, all expenses shall have to be borne by the supplier.	
04.	Normally transshipment is not allowed. However, if the bidder needs transshipment they are to mention in the offer about their requirement. In case of such requirement, the transshipment may only be allowed under single AWB/ BL. ✓	
05.	The bidder is to mention the country of origin, country of manufacture and port of shipment of the items in the offer.	
06.	Increase of price at any stage after submission of offer will not be accepted by BAF. The offered unit price and total price against each item must be correct. If the unit price or total price of an item is found incorrect, that unit price or total price will be taken into consideration which will be benefited to BAF.	
07.	The bidder is to quote FCA/ FOB cost and freight charges (by both air and sea) separately & clearly in financial offer. If freight is not quoted separately for each item, total freight will be distributed against each item based on its proportionate FCA/FOB cost of all items. Any price/ cost quoted in the pages of quotation other than financial offer will not be considered.	
08.	For failure to supply the contracted goods in time, DGDP/ BAF may cancel the contract with necessary punitive action.	
09.	Offer must remain valid till 30 June 2025 from the date of opening the tender. Within the validity of the offer, withdrawal of offer or unwillingness to sign the contract by the bidder will not be accepted and in such cases action would be taken against the principal supplier and local agent as per DGDP rules.	
10.	Delivery schedule mentioned in the tender specifications may be changed by DGDP/ BAF due to delay in concluding the contract. In this case, the contract would be signed within offer validity period. DGDP/ BAF also reserves the right to get the offer validity extended with the consent of the supplier. ✓	
11.	Part shipment and part payment: Not allowed.	
12.	Payment Terms. 100% Payment in foreign currency (FC) will be made through an irrevocable Letter of Credit (LC) opened with scheduled bank in Bangladesh and negotiating bank recommended by the supplier under following terms and conditions: a. 80% of CFR/ CPT value will be released on production of shipping documents to the bank. b. 20% of CFR/ CPT value will be released on satisfactory acceptance of 100% items by BAF after inspection/ functional test (as applicable), on production of Certificate Receipt Voucher (CRV) and written clearance from DGDP. ✓	
13.	AWB/BL must be in the name of consignee.	

14.	Bidders are requested to submit soft copy of Financial Offer in a CD according to the given proforma along with the hard copy of Financial Offer in closed envelop.	
15.	Compliance of tender terms and conditions should be mentioned in the quotations by the bidders as per the above sequence. Bidder is to provide appropriate information against each clause clearly (where necessary) instead of 'complied'/'not complied'. No contradictory/hypothetical sentence/word/(like, quote is subject to availability/prior to sell/subject to export license approval or words so) will be accepted by BAF.	
16.	Any other terms and conditions not covered here will be as per DGDP rules and regulations.	



ANNEX E TO
TENDER NO 06.06.0000.279.07.147.24
DATED 29 OCTOBER 2024

FORMAT FOR SUBMISSION OF FINANCIAL OFFER (DP-6)

Subject	Qty	Price	Remarks
Procurement of Nitrogen Truck	01 Ea		
Sea/Air Freight			
CFR/CPT Value			
Cost of Complete set of tool kit and all accessories as per clause 6 of Annex D (Technical Terms & Conditions)			Details may be shown in appendix
Cost of Fast Moving Spare Parts as per clause 7 of Annex D (Technical Terms & Conditions)			Details may be shown in appendix
Cost of Local Training as per clause number 24 of Annex D (Technical Terms & Conditions)			Details may be shown in appendix
Total Value			

Local Agent's Commission:

Validity _____ :
 Delivery _____ :
 Country of Origin _____ :-
 Warranty _____ :
 PG Amount : _____

Remarks.

1. Each column must be filled in by the Principal and submitted with application.
2. All above information's must be in principal's invoice quotations.
3. Write in column NOT APPLICABLE (NA) if not asked in tender conditions and NOT QUOTED (NQ) if not quoted by principal.

Signature of the Tenderer
With Full Name, Address and Seal of the Company

