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TECHNICAL SPECIFICATION OF NITROGEN TRUCK QTY-01

Ser no	Description	Specification Specified	To be filled up by the bidder
1.	Name of the Equipment	Nitrogen Truck with Compressor	
2.	Purpose	<p>a. The Nitrogen Truck is to be capable to Charge MIG-29B/UB aircraft systems and its missile system.</p> <p>b. The Nitrogen Truck must have provision of charging its bottles from any out side 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 of Nitrogen bottles to another bank of Nitrogen bottles when pressure of the bottles decreases.</p>	
3.	Model and Brand	To be mentioned by the bidder.	
4.	Country of Origin	China/ EU countries/USA/Japan/Australia	
5.	Drive Type	4X4 WD. Right hand drive/ Left hand drive (Right hand preferable)	
6.	Vehicle Dimension	<p>(a) Overall Length: To be mentioned</p> <p>(b) Overall Width: To be mentioned</p> <p>(c) Overall Height: To be mentioned</p>	
7.	Weight of Vehicle	<p>(a) Curb weight: To be mentioned</p> <p>(b) Pay load: To be mentioned</p> <p>(c) Gross Vehicle Weight: To be mentioned</p>	
8.	Number of Bottles & Diameter	<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 03 banks of Nitrogen bottles. Each bank must have at least 04 Nitrogen bottles. There must be provision in the Nitrogen Truck so that its bottle pressure (250 kg/cm²) can be reduced to provide variable pressure of 150 kg/cm²-230 kg/cm² to different system of the aircraft by passing the Compressor.</p> <p>(c). Working pressure capacity 350 kg/cm²</p> <p>(d). Testing pressure capacity 500kg/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>	

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Ser no	Description	Specification Specified	To be filled up by the bidder
9	Tyre & Wheels	(a) Number of Wheels of the Truck: To be mentioned by the bidder. (b) Tyre size: To be mentioned by the bidder.	
10	Brakes:	To be mentioned by the bidder.	
11	Driving Speed/Number of Gear	(a) Maximum driving speed: At least 60 KMH. (b) Number of gears and reverse gear: To be mentioned by the bidder	
12	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 less than 160 mm.	
13	Engine for Nitrogen Truck: a. Engine type b. Horse Power c. Compression Ratio d. Engine displacement e. Rated RPM f. Fuel consumption g. Cooling system h. Electric system j. Battery capacity k. Fuel tank capacity	a. Diesel, 4 stroke cycle, 6 cylinder, in line. b. Minimum 160 HP or more (But bidder is to mention the actual HP of the engine of Nitrogen Truck) c. To be mentioned. d. To be mentioned. e. To be mentioned. f. Fuel consumption (liter/KM) is to be mentioned by the bidder. g. Water cooled h. 12/24 VDC (For starting, lighting & Instrument system). j. 02 x 120 AH k. Not less than 170 Ltrs (But bidder is to mention the actual capacity of the Fuel Tank).	
14	Compressor for Nitrogen Truck: (a) Type (b) Model & Brand (c) Delivery pressure (d) No of Cylinder (e) Arrangement of cylinder (f) Weight of compressor (g) Over pressure protection system	(a) To be mentioned by the bidder. (b) To be mentioned by the bidder (c) 400 kg/cm ² (d) To be mentioned by the bidder. (e) Horizontal. (f) To be mentioned by the bidder. (g): To be mentioned by the bidder.	


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Ser no	Description	Specification Specified	To be filled up by the bidder
15	Driver's Cabin	a. Cabin height should be more than rear side canopy. b. Viewing mirror must be available. 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. The nitrogen truck must have standard viewing mirror.	
16	Towing hooks	Towing hooks with locking facilities should be fitted in the front and rear of the nitrogen truck.	
17	PTO Gear box	Auxiliary gear box system to engage & disengage the compressor.	
18	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.	
19	Metallurgical Treatment	Anti corrosive treatment must be given on all parts of the Nitrogen Truck to prevent corrosion.	
20	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 and 'NAV' light qty-04 (blue and red) on roof (front & rear corner). h. Back gear driving light non flashing. j. Stop light.	
21	Electric equipment	The following electric items must be available: a. Circuit breaker in all valuable electric equipment. b. Cab 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.	
22	Noise control system	A noise reduction kit should be fitted to reduce the noise level while operating the truck.	

Ser no	Description	Specification Specified	To be filled up by the bidder
23	Control board	a. Sufficient pressure gauge for each bottle group. b. Sufficient pressure control knob for each bottle group. c. Sufficient pressure control knob for charging, release and by pass system. d. Sufficient lighting system. e. Compressor engage lever. f. Compressor RPM knob.	
24	List of spares & tools:	a. Tools box for Nitrogen Truck: Set-01 (Standard set/ sufficient tools but bidder is to mention the list of tools) 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.	
25	Publications:	a. Manual covering maintenance and overhauling information of engine, compressor, chassis and also 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. Drivers/Owner/Operation manual (book type, all in English): qty -03.	
26	Nitrogen delivery hose:	50 feet.	
27	The supplied Nitrogen truck must be equipped with all standard fitting and accessories.		





TECHNICAL TERMS & CONDITIONS FOR PROCUREMENT OF NITROGEN TRUCK QTY-01

The bidder is to mention "Comply/Not comply/Appropriate remarks against each Technical Specification and Terms & Conditions, otherwise the quotation will not be accepted. The terms & conditions are mentioned below:

1. The bidder must be the manufacturer of Nitrogen Truck or authorized by the manufacturer to sell their product. Original Equipment Manufacturer's (OEM)/Authorization certificate (mentioning year of production) must be submitted by the bidder along with the quotation and supplied Nitrogen Truck.
2. The Nitrogen Truck with all accessories/components must be brand new, unused and latest product of not earlier than year of **2011/2012**. The year of production of the Nitrogen Truck is to be mentioned in the offer.
3. The supplier is to mention the cost of Nitrogen Truck and freight by Sea up to Chittagong Sea Port separately. Mentionable, the freight will be paid at actual but not more than the quoted freight.
4. The supplier is to submit the list of fast moving consumable spare parts of Nitrogen Truck with its cost separately which will be required for first two years maintenance. BAF has option to accept/reject part or whole list of spare parts.
5. The supplier is to submit original copies of Brochures/pamphlet/manual (in English) containing detail technical data, diagrams, circuit diagram, information and photograph of the Nitrogen Truck along with the offer for technical vetting. The supplier is also to submit a certificate carrying out pressure test of bottles. The date of carrying out pressure test and next due date to carry out pressure test are to be written on the body of the nitrogen bottles of the Nitrogen truck.
6. The supplier is to submit written warranty certificate for 01 year trouble free operation of Nitrogen Truck from the date of acceptance in BAF.
7. The bidder/supplier is to submit written guaranty certificate for supplying 10 years spares support for the Nitrogen Truck from the date of acceptance in BAF.
8. If the Nitrogen Truck or any item is found unserviceable during warranty period, the same must be replaced with new one by the supplier at their own expenses including both ways freight and insurance charges within 90 days of forwarding of unsatisfactory report. Unserviceable period due to delay in warranty replacement/repair will be added to the total warranty period.
9. If any item/spares of Nitrogen Truck is found unserviceable during acceptance check, the same must be replaced with new one by the supplier at their own expenses including both ways freight and insurance charges within 60 days of forwarding of discrepancy report.
10. The Nitrogen Truck is to be positioned at 201 MU, BAF, Dhaka cantonment at supplier expenses and arrangement.
11. Inspection, functional and operational test of supplied Nitrogen Truck is to be carried out at BAF KTL/ 201 MU, BAF in presence of the supplier's foreign engineer/ technician/ local representative.
12. Acceptance certificate will be given by Central Quality Control Unit (CQCU), BAF after satisfactory survey and functional test of Nitrogen Truck..



13. On site familiarization training covering 2nd line maintenance and rectification of Nitrogen Truck to a group of BAF Personnel for a period of 14 (fourteen) working days at BAF site by foreign Engineer/specialist during acceptance of the Nitrogen Truck within quoted cost. All expenditure including air ticket, fooding, transport both internal and external are to be arranged & borne by the supplier.
14. A two member pre shipment team (01 x Engineering Officer (M) & 01 x Airman of (E&I trade) will visit the factory for inspection of the Nitrogen Truck for 07 days before the Nitrogen Truck is ready for shipment. All expense of the team including international air ticket (both way), food, accommodation, fooding, transportation, medical care etc will be born by Government of Bangladesh. The contractor will arrange all the administrative formalities of the team. The contractor will extend all possible assistance to the team for checking the documentation including physical checking of the Nitrogen Truck.
15. The Nitrogen Truck along with its required components is to be delivered within 180 days after opening of LC.


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MISCELLANEOUS TERMS & CONDITIONS

Ser No	Description
16.	The bidder must mention the name and full address of the local agent (if any) in the offer.
17.	Item with changed/dissimilar part no/description (if any) is to be mentioned during submission of offer.
18.	If any changes required in contract/LC due to fault of supplier, all expenses shall be borne by the supplier.
19.	Transshipment is not normally allowed but if the bidder needs transshipment then they are to mention in the offer about their requirement. In case of such requirement, the transshipment will only be allowed under single AWB/BL.
20.	The bidder is to mention the port/country of shipment in the offer.
21.	The cost of item is to be "Firm and Fixed". No increase of the price at any stage after submission of offer will be accepted by BAF
22.	For failure to supply the contracted items in time. DGDP may cancel the contract with nec punitive action.
23.	Cost of the items and freight charges (by Air & Sea) should be mentioned separately and clearly.
24.	Offer must remain valid for minimum 180 days or as per tender conditions from the date of opening the tender. Within the validity, withdrawal of offer or un-willingness to sign the contract by the bidder will not be accepted and in such cases actions would be taken against the principal supplier and local agent as per DGDP rules. Delivery schedule if mention 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.
25.	Part shipment: Not allowed.
26.	Part payment: Not allowed.
27.	Compliance of tender terms & conditions should be mentioned in the quotations by the bidder as per sequence above.
28.	<u>Payment Terms</u> . Payment will be made through an irrevocable letter of Credit (LC) as under : a. 80% payment will be made on production of shipping documents to the bank. b. Rest 20% payment will be made on satisfactory acceptance of 100% items by BAF after inspection/functional test (as applicable) and written clearance from DGDP
29.	Any other terms and conditions not covered here will be as per DGDP rules and regulations.