TENDER SPECIFICATION OF PORTABLE INDUSTRIAL DG (300KW) – BN DOCKYARD (YARD SERVICE (L)

1. **Name of the Equipment**. Portable Industrial DG (300KW) with accessories.

2. **Purpose**. The gensets shall be used to provide continuous electric power to naval ships during refit/ docking. The generators shall be considered as sources of primary electric power. The gensets shall be installed outdoor and have to withstand coastal weather.

3. **Quantity**. 02 (Two) complete sets.

4. **Original Equipment Manufacturer (OEM)**. Name & Full address with telephone number and e-mail of OEM to be mentioned.

5. **Principal/ Supplier/ Bidder**. Name & Full Address with telephone number and e-mail of Principal/ Supplier/ Bidder is to be mentioned.

6. **Local Agent**. Name & Full Address with telephone number and e-mail of Local Agent is to be mentioned.

7. **Year of Manufacturing**. 2026 or latter.

8. **Qualification of Bidder**. Manufacturers of the Portable Industrial Diesel Generator sets or their authorized distributor/ agent can submit quotations through their authorized local agent enlisted in DGDP. In case of offer from foreign trading company/ distributor/ agent, certificate of dealership/ agency-ship from Original Equipment Manufacturer (OEM) is to be submitted with the offer. In this regard, the **following certificates are to be submitted with the offer** (if not OEM):

   a. Authorization Certificate from OEM.

   b. Supply Assurance Certificate from the OEM.

9. **Equipment Manufacturer and Reliability/ Requirement**. The newly installed items shall be brand new, unused and of recent model, proven reliability in the field of operation. The supplier shall ensure the continuity of the operation and availability of necessary spares for at least 15 years each in case of obsolete model over time. **Certification is to be attached with the offer.**

10. **Condition for Acceptance of Quotation**. The quotation is to have supporting documents (booklets, catalogues, brochures etc) with details about offered equipment/ item. If detailed information regarding specifications, manufacturer's manuals and catalogue for the quoted equipment/ items are not provided the quotation may not be accepted.

11. **Acceptance/ Rejection of Bid**. DGDP/ BN reserves the right to accept or reject any bid or to terminate the bidding process and reject all bids at any time prior to the contract award (without thereby incurring any liability to the BIDDER).

12. **Classification Standard**. The offered Gensets (Prime Mover and Alternator) and associated accessories supplied under the scope of the supply are to be designed, constructed/ manufactured and tested up to the requirement of IEEE/ IEC/ ISO or other equivalent internationally recognized standards. The applicable classification standard(s) of offered items are to be mentioned and all the relevant **certificates are to be submitted with the offer** in English.

13. **Additional Features Offered by Bidder**. The bidder may suggest and offer additional features for the offered gensets. In this case, Bidder is to explain the detailed advantage of that/ those features of the offered genset.

14. **Scope of Supply**.

   a. 02 x Complete Gensets with associated accessories as follows:
      (1) Complete Gensets (As per Para 16a(1)).
      (2) Prime Mover (Engine) (As per Para 16a(2)).
      (3) Alternator (As per Para 16a(3)).
      (4) Generator Control and Monitoring Panel (As per Para 16a(4)).
      (5) Changeover Switch (04 Poles) (As per Para 16a(5)).
      (6) Trailer (04 Wheel, 2 Rest) with Accessories (As per Para 16a(6)).
      (7) Standard Accessories (As per Para 16a(7)).
      (8) Mandatory Spares (As per Para 16a(8)).

   b. Cables (Power and Control Cable) (As per Para 16b).

   c. Certificates and Reports (As per Para 16c)

   d. Manuals/ Documents (As per Para 16d).

   e. Factory Acceptance Test (FAT) (As per Para 18).

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g. Local Training (As per Para 19).

h. Installation, supervision and Setting To Work (STW) (As per Para 20).

j. Test/ Trial and Acceptance (As per Para 21).

15. **Brochures/ Booklet**. **Brochures/ Booklet**. 01 (One) set of original Brochures/ Booklets in English and **authentic weblinks with detailed technical information about the quoted model of gensets, prime mover, and alternator are to be provided with the quotation for evaluation/ assessment**.

16. **Technical Specifications**.

a. **Complete Genset with Associated Accessories**.

(1) **Specification of Complete Gensets**.

Ser	Description	Remarks
(a)	Country of Origin/ Assembly	**Genset, Control/ Monitoring and Other parts/ accessories**. Sweden, USA, UK, Germany, France, Turkiye and China (To be mentioned)
(b)	Type	Industrial and Portable
(c)	Brand	Scania, Caterpillar, Everllence SE (MAN Diesel), Cummins, Baudouin, Weichai, EMSA and Yorpower (To be mentioned)
(d)	Model	To be mentioned
(e)	**Operating Environment of Generator Set**.	
	i. Ambient air température	$+5^0$ C to + 50^0 C
	ii. Relative humidity	Up to 95% (non-condensing)
(f)	Power factor	0.8 lagging or better
(g)	Output	415 V, 50Hz, 3 Phase, 4 wire, PRP: 300 KW
(h)	RPM	To be mentioned
(j)	Overall Dimension and dry weight of Generator set	To be mentioned
(k)	Canopy	i. Shall be Sound and weather-proof
		ii. Ingress Protection: IP 54 or better (To be mentioned)
		ii. Noise level: To be mentioned at 1 m and 7m
		iv. Dimension of the gensets with canopy: To be mentioned
		v. Material: To be mentioned
(l)	Type of Coupling (Prime Mover and Alternator)	To be mentioned
(m)	Combined Base Frame	The prime mover and alternator shall be mounted on a common rigid base frame with anti-vibration mounts. Lifting eyes shall be provided for lifting the complete generator set with canopy.
(n)	Mounting	The generator set shall be elastically mounted on a common base frame and installed in the shed. Vibration isolation is to be provided
(p)	**Loading Condition**.	

(1) The generator shall maintain following steady state and transient performances (as per ISO 8528-5:2022 Table 4, for G2 standards):

Parameter		Unit	Operating Limit Values
i. Steady state frequency band		%	≤±1.5
ii. Transient frequency difference from initial frequency	100% sudden power decrease	%	≤+12
	Sudden power increase		≤ - (10 + Frequency droop)
iii. Transient frequency deviation from rated frequency	100% Sudden power decrease	%	≤+12
	Sudden power increase		≤ -10 (Moderate load variation)
			≤ -20 (Large load variation)
iv. Frequency recovery time		s	≤+5
v. Steady state voltage deviation		%	≤±2.5
vi. Voltage unbalance		%	1

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Ser	Description		Remarks	
	vi. Voltage unbalance		%	1
	vii. Transient voltage deviation	100% Sudden power decrease	%	≤+25
		Sudden power increase		≤ -20
	viii. Voltage recovery time		s	≤+6
	(2) The generator shall maintain above steady state and transient performances (as per ISO 8528-5:2022 Table 4, for G2 standards) under load changes from 0%-50%, 50%-100%, 100%-0% and during steady state.			
	Note: Graphs showing various characteristics and responses of transient voltage and frequency variation are to be submitted with the FAT Report.			
q.	Earthing Arrangement	To be mentioned and to be provided for immediate operation		

(2) **Specification of Prime Mover (Engine)**.

Ser	Description	Remarks
(a)	Manufacturer (OEM)	To be mentioned
(b)	Type	Air-Cooled, Turbo Charged
(c)	Brand	Scania, Caterpillar, Everllence SE (MAN Diesel), Cummins, Perkins, and Moteurs Baudouin (To be mentioned)
(d)	Model	To be mentioned
(e)	Country of Origin and Manufacture	Sweden, USA, UK, Germany, China and France (To be mentioned)
(f)	Year of Manufacture	2026 or later
(g)	RPM	To be mentioned
(h)	No of Cylinder	To be mentioned
(j)	PRP of the Prime Mover	To be mentioned
(k)	Shut down system	Details to be mentioned (Including emergency shutdown)
(l)	Lube Oil (Type/ grade)	To be mentioned
(m)	Cooling system	Details to be mentioned
(n)	Starting System	Battery Started (New battery to be provided with the Genset. Battery brand, model, quantity and capacity in Volt and AH to be mentioned)
(P)	**Maintenance Schedule/ Overhauling.**	
	i. Major Overhauls	10000 hour or more (To be mentioned).
	ii. Top Overhauls	5000 hour or more (To be mentioned).
	iii. Other Maintenance routine	To be mentioned.
(q)	Specific Fuel & Lube oil consumption (gm/ kWh)	To be mentioned
(r)	Safety Devices	Following or more safety protections are to be incorporated: i. Engine over speed ii. High Exhaust Temperature iii. Low Engine Oil Pressure iv. Others to be mentioned (if any)
(s)	Mechanical Gauge	Mechanical Gauges for the following parameters are to be available (Not limited to): i. Lubricating Oil Pressure ii. Lubricating Oil Temperature iii. Exhaust Temperature iv. Coolant Temperature v. Engine RPM

(3) **Specification of Alternator**.

Ser	Description	Remarks
(a)	Manufacturer (OEM)	To be mentioned
(b)	Type	Air cooled
(c)	Brand	Leroy Somer, Stamford and Mecc Alte (To be menioned)
(d)	Model	To be mentioned
(e)	Country of Origin and Manufacture	USA, UK, Mexico and EU Countries (To be mentioned)
(f)	Year of Manufacture	2026 or later
(g)	Excitation	To be mentioned
(h)	Power factor	0.8 lagging or better
(j)	Rated voltage	415 V AC
(k)	Frequency	50 Hz
(l)	Number of Poles	To be mentioned

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Ser	Description	Remarks
(n)	No. of phases	3 phase, 4 wire
(p)	Voltage Regulation	±1% or better
(q)	Overload Acceptance	110% overload of PRP for at least 1 hour in every 12 hours or better
(r)	Excitation Type	To be mentioned
(s)	AVR	Electronic Type. (Details to be mentioned, like Brand, Model, Country of origin, Country of manufacturer etc)
(t)	Insulation class	H or better
(u)	Protection class	IP 23 or better
(u)	Number of bearing	Double/ Single (To be mentioned)
(v)	Safety features	The following safety protections are to be incorporated: i. Overload protection ii. Short-circuit protection iii. Under frequency protection iv. Under voltage protection iv. Excitation loss indicator v. Reverse power protection vi. Any others to be mentioned

(4) **Specification of Generator Control and Monitoring Panel.**

(a) Following are to be incorporated:

(i) Multifunction digital control with display.
(ii) Both manual and automatic start & stop facility.
(iii) Scrolling Digital LCD.
(iv) Others (if any) to be mentioned.

(b) **Digital Meter Panel**. Following are to be incorporated:

(i) Generator Volt meter (Phase to Phase and Phase to Neutral).
(ii) Generator Amps meter (for line current measuring).
(iii) Generator Frequency meter.
(iv) Lubricating Oil Pressure, Lubricating Oil Temperature, Exhaust Temperature, Coolant Temperature, Engine RPM, Fuel Level (but not limited to).
(v) Running hour meter.
(vi) Battery voltage indicator meter.
(vii) Others (if any) to be mentioned.

(5) **Changeover Switch (04 Poles).**

Ser	Description	Remarks
(a)	Manufacturer	To be mentioned
(b)	Type	To be mentioned
(c)	Brand	To be mentioned
(d)	Model	To be mentioned
(e)	Qty	01 (One)
(f)	Country of Origin and Manufacture	To be mentioned
(g)	Year of Manufacturer	2026 or later
(h)	Rated voltage	380~440 V AC
(j)	Phases/ Pole	3 phase, 4 wire
(k)	Frequency	50 Hz
(l)	Ampere Rating (**Must be compatible considering the maximum capacity of the genset**)	To be mentioned
(m)	Transition type	Non automatic (conventional two position)
(n)	Position of Line Terminals	Top In - Bottom Out, Bottom In - Top Out
(p)	Operating Mode	Front operated
(q)	Mounting Type	Designed to be fit anywhere
(r)	Ingress Protection	IP 23 or better
(s)	Mechanical Durability	10000 cycle
(t)	Maximum conductor per terminal	03 (Three)

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Ser	Description	Remarks
(u)	Enclosure Type	Secure double door box (Stainless steel)
(v)	Enclosure Dimension (Maximum)	W x H x D. (To be mentioned)

(6) **Trailer (04 Wheel, 2 Rests) with accessories (Locally Supplied)**.

Ser	Description	Remarks
(a)	Feature	The trailer shall have 04 (four) wheel with 02 (two) rest, hand brake and towing arrangement for truck/ jeep (Details to be mentioned including braking system) and shall be able to carry the offered genset with 50mtr cable through bumpy roads considering max. load and dimension. The trailer shall be supplied in an assembled condition.
(b)	Color	Dark Blue/ Black
(c)	Load Capacity **(Must be capable to carry the genset with cable and accessories)**	8 ton or above
(d)	Steering	4-wheel double turntable
(e)	Platform material	Wood coating, treated with preservative
(f)	Type of Tyre	Commercial heavy duty rubber type
(g)	Year of Manufacturer	2026
(h)	Weight & Dimension	To be mentioned
(i)	DG Securing Arrangement	DG Securing Arrangement (Lashing or such) to be available and to be mentioned
(j)	Wheel type	Solid rubber
(k)	Wheel width	To be mentioned
(l)	Wheel diameter	To be mentioned
(m)	Suspension	To be available, type to be mentioned
(n)	Steering	Radius 35° or better
(p)	Towing eyelet diameter	To be mentioned
(q)	Platform length	To be mentioned
(r)	Platform width	To be mentioned
(s)	Loading height	To be mentioned

(7) **Standard Accessories.** Standard accessories must include every item and accessories, which are essential to make the offered gensets ready for immediate operation with full functionality. The bidder shall supply such items whether those are mentioned in the specification or not.

(8) **Mandatory Spares**. The following spares are to be provided at the time of delivery:

Ser	Name of Item	Deno	Qty	Unit Price and Total Price
(a)	Lube Oil Filter	Set	02	To be mentioned
(b)	Fuel Filter	Set	02	
(c)	Air Filter	Set	02	
(d)	Belt (all types)	Set	02	
(e)	Injector Nozzle	Set	01	
(f)	Head Gasket	Set	01	
(g)	Ferrule	Set	01	
(h)	Manifold Gasket	Set	01	

b. **Cables**. The bidder shall provide necessary high-quality Power and Control Cable for Generator sets for all power & control/ monitoring connections. Unit price (per meter) of the cables shall be shown. The cables shall have the following specifications:

Ser	Description	Remarks
(1)	Brand (Power cable)	BRB/ BSB/ Eastern/ Poly
(2)	Model (Power cable)	To be mentioned
(3)	Country of origin and manufacture (Power cable)	Bangladesh
(4)	Power Cable type	i. 04 in no single core cable (each of 50 m length) for offered

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Ser	Description	Remarks
		gensets (for 03 x Phase and 01 x Neutral) ii. Conductor Type: Copper iii. Cable Type: NYY-F or better iv. RM: To be mentioned v. Others: The cables shall be sufficiently flexible to roll and load together onto the trailer with the Generator
(5)	Current carrying capacity in air at 35°C of the power cable (Must be suitable for the maximum capacity of the genset)	To be mentioned
(6)	Brand (Control/Signal cable)	To be mentioned
(7)	Model (Control/Signal cable)	To be mentioned
(8)	Country of origin and manufacture (Control/Signal cable)	To be mentioned
(9)	Control/Signal cable type	To be mentioned
(10)	Length of Control/Signal cable	As required

c. **Certificate and Reports**.

(1) Following certificates and reports are to be provided in English for each item including associated equipment/ accessories **with the offer**:

(a) Certificates by OEMs of alternator, prime mover and the complete genset mentioning respective country of manufacture.

(b) All necessary standard/classification certificates mentioned in the offer (as per para 12).

(c) Authorization Certificate (as per para 8.a).

(d) Supply Assurance certificate (as per para 8.b).

(e) Guarantee (as per para 9 and 24.c) and warranty certificates (as per para 24.a).

(f) After sales service support certificate (as per para 24.d).

(2) Following certificates and reports are to be provided in English for each item including associated equipment/ accessories **during delivery**:

(a) All necessary standard/classification certificates mentioned in the offer (as per para 12).

(b) 'Quality assurance certificates' for each item and their associated equipment and instruments from OEM is to be provided.

(c) 'FAT certificates' (as per para 18).

(d) Certificate of genuine product and brand-new item.

(e) Supply Assurance certificate (as per para 8.b).

(f) Guarantee (as per para 9 and 24.c) and warranty certificates (as per para 24.a).

(g) After sales service support certificate (as per para 24.d).

d. **Manuals/ Documents/Software**. The manuals and documents shall be provided as per defence standard. The following 01 (One) set of documents and manuals in English shall be provided at the time of delivery at free of cost for **each gensets**:

(1) Category 1: Operating Manual of the Complete Genset including Prime Mover and Alternator.

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(2) Category 2: Technical Manual with Circuit Diagram of the Complete Genset including Prime Mover and Alternator.

(3) Category 3: Maintenance Manual of the Complete Genset including Prime Mover and Alternator.

(4) Category 4: Parts Catalogue of the Prime Mover and alternator.

(5) Category 5: AVR Manual/Data sheet with diagram.

(6) Category 6: Electrical wiring Diagrams and faultfinding flow charts.

(9) Category 7: Software (with a lifetime license) of the Generator Control and Monitoring Panel is to be provided in a memory device with a step-by-step installation guide and password/account as necessary.

17. **Spare (Optional)**. A list of the following spares (optional) is to be quoted separately with item wise unit price. The buyer may select the spares as required from the list:

Ser	Name of Item	Quantity	Unit Price
a.	AVR	01	To be mentioned
b.	ACB with appropriate ratings	01	
c.	Oil Filter	01	
d.	Fuel Filter	01	
e.	Air Filter	01	
f.	Belt (As applicable)	01	

18. **Factory Acceptance Test (FAT)**. Following FAT(s) criteria is to be conducted in OEM (assembler) premises for the offered gensets:

a. FAT shall be carried out by a team of 02 (Two) BN members for 05 (Five) working days in OEM premises at the buyer's expense. Both way air fare, accommodation and food for the FAT team shall be borne by BN. All types of movement/ transportation (air/sea/road) of the team within the manufacturer's country, reception and arrangement for entry into the country/ concerned area for the FAT are to be arranged by the supplier. The supplier shall inform the buyer about the date of FAT (schedule) and FAT criteria at least 08 (eight) weeks prior to the date of FAT. FAT procedure shall be forwarded to the buyer 6 (six) weeks prior to the date of commencement of the FAT to the concerned directorate for approval of BN. Serial No of Prime Mover and Alternator are to be provided eight weeks before FAT. The cost of FAT in this respect is to be quoted in the offer.

b. On return from the country of manufacturer, the FAT team will submit the report to concerned Directorate at Naval Headquarters. Naval Headquarters will, in turn, forward final decision along with FAT report, basing on which DGDP will render clearance for shipment of stores to the supplier concerned. The supplier will not make shipment of any item of the contract without clearance from DGDP.

c. The FAT shall be carried out at manufacture's factory premises following approved FAT protocols. In this regard, the FAT protocol is to be approved by BN well in advance.

d. During FAT, tests shall be carried out to fulfill the required condition mentioned in technical specification of the offered system. Various tests for checking performance are to be carried out and recorded. After FAT, a joint test report shall be prepared and signed by both the seller and buyer's representative.

e. The FAT criteria in details is to be submitted, which shall include the following:

(1) **Generator Load Tests**. Generators load test shall be carried out to fulfil the required condition mentioned at Para 16.a.(1).(p). Recording of voltage, frequency, transient voltage and frequency variation and recovery time shall be made to ascertain the specified condition.

(2) **Prime-Mover Test**. Factory Test Reports of prime mover are to be provided.

(3) **Tests of Alarm and Safety Devices**. Various tests for checking temperature, pressure, fuel oil consumption etc. with recording of alarm and shutdown steps are to be carried out.

(4) **Test Report**. Test reports are to be prepared in English and jointly signed by BN and OEM representative, which will include test results and other relevant information. Test report is to be submitted to BN before shipment.

Location of FAT. Location of FAT with full address is to be mentioned.

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19. **Local Training** The supplier is to send one qualified representative who will provide operation and maintenance training at the place of installation to 10 (Ten) BN personnel for 03 (Three) working days for genset after test, trial and commissioning of Gensets. During training, emphasis shall be given on operation, maintenance and faultfinding of Prime Mover, Governor, Alternator, AVR and Generator sets Controller procedure and Control Circuit etc. Cost of transportation, accommodation and food of the supplier representative shall be borne by the supplier. Cost of onboard training is to be quoted separately. A set of detail training content is to be provided by bidder to BN 02 (Two) weeks prior to the said training. The training should include (but not limited to) the following:

a. System composition, configuration, principle of operation and troubleshooting.

b. Software installation (If required), operation and configuration for smooth conducting of all the tests.

c. Repair and maintenance procedure.

20. **Installation, Supervision & Setting to Work (STW).** Installation, Supervision, and Setting to Work (STW) shall be done as following:

a. **Installation Site**. BN Dockyard in Chattogram.

b. **Installation Material and Accessories**. All installation materials, test equipment/ instruments, tools, cables, cable gland and other necessary accessories required for the installation, STW and supervision are to be provided by the supplier.

c. **Bidder/ Supplier's Responsibility**.

(1) Installation of gensets with standard accessories and software installation (if required/ necessary) is to be done by the supplier. As such, any accessories required for the operation and maintenance shall be provided by the supplier.

(2) The offered gensets and associated accessories shall be installed onboard BN Dockyard in Chattogram and commissioned by qualified OEM engineers.

(3) Qualified OEM Engineers are to be employed for the installation, Setting-to-Work (STW), and commissioning. All types of expenses related to both-way airfare (to and from Bangladesh (installation site)), food, accommodation and internal travel of the OEM engineer during installation are to be borne by the supplier.

d. **Purchaser's Responsibility**. Purchaser (BN) shall provide available assistance (if required) for installation under the direct supervision of the OEM Engineer. BN Dockyard shall provide available work/ facility (if required) for installation. Support equipment may be provided (if available) from the user side upon request prior to installation.

21. **Test/ Trial and Acceptance**. Test, Trial and Acceptance requirements are as follows:

a. **General**. The supplier's engineer shall ensure satisfactory tests, trial and functioning/ commissioning of the equipment at the purchaser's premises after all necessary replacements. Necessary software installation (if required) shall be done before the test/trial. After delivery, the genset shall be tested at BN Dockyard in presence of the supplier's engineer and user according to para 16.a.1.p. After completion of Setting-to-Work in BN Dockyard, the SAT shall be conducted. All instruments and consumables for the initial tests in BN Dockyard and for the SAT (Site Acceptance Test) are to be provided by the supplier.

b. **SAT Protocol**. The SAT protocol/ procedures, including schedule, are to be submitted to BN 04 (four) weeks prior SAT. The SAT protocol shall clearly mention duration, load steps, list of parameters to check with rated values, required equipment etc.

c. **SAT**. Site Acceptance Test (SAT) shall be carried out after completion of Setting to Work (STW).

d. **Acceptance**. On completion of satisfactory Test/ Trial, final acceptance shall be given by CINS.

22. **Delivery**.

a. **Delivery Time**. The items shall be delivered to the 'Place of Delivery' within **09 (Nine)** months after signing the contract.

b. **Place of Delivery**. NSD, Chattogram.

c. In case of CFR/ CPT the supplier shall carry the items from any sea port/ airport (as applicable) to NSD, Chattogram at the cost and risk of supplier.

23. **Shipment**.

a. **Source of Supply**. The source of supply of the offered gensets shall be mentioned. It shall be from the country of manufacturer or country of origin.

b. **Port of Shipment**. To be mentioned. The port of shipment shall be from the country of manufacturer or country of origin.

c. **Consignee**.

The Commanding Officer
Naval Stores Depot
New Mooring, Chattogram, Bangladesh
BIN-002349278-0503

or Officer In Charge
Naval Stores Sub Depot Dhaka
Naval Unit Khilkhet
Namapara, Dhaka-1229, Bangladesh

e. All items shall be brand new and to be delivered in seaworthy packing to ensure safe transit by sea. Certificates in this regard are to be provided during delivery.

f. All packages shall have packing notes showing their contents in detail and all packages shall be marked with the name and address of the consignee and gross weight.

24. **Warranty, Guarantee and After Sales Service**.

a. **Warranty**.

(1) 12 (Twelve) months manufacturer's warranty for trouble-free operation shall be provided for the item from the date of acceptance by the purchaser. If any component of the supplied items becomes defective during the warranty period, the overall warranty shall be extended automatically for the period during which the subject component remains defective.

(2) For warranty repair/ replacement, the supplier shall collect the defective item from NSD, Chattogram/ NSD, Khulna/ NSSD, Dhaka (as applicable) and re-supply the same to collecting place after warranty repair or for replacement within 90 (ninety) days from the date of defect at no cost to the purchaser.

b. **Bank Guarantee (BG) for Warranty**. The bidder shall issue a Bank Guarantee (BG) of **@ 05% (Five percent) of the total CFR/ CPT value** during submission of the bill for the last 20% payment from any scheduled bank in Bangladesh in favour of The Senior Finance Controller (Navy), Sailors Colony, Lalasarai, Mirpur–14, Dhaka-1206, representing Bangladesh Navy, Peoples Republic of Bangladesh, information to The Directorate General Defence Purchase, Ministry of Defence, Peoples Republic of Bangladesh. This BG shall remain valid until the warranty period of the Portable Industrial DG (notwithstanding minor deficiencies which would be mutually settled and agreed between purchaser and bidder) in Bangladesh, and it shall expire on receipt of **Warranty Completion Certificate**. If the contractual obligation warrants the extension of the validity of the BG, the bidder shall remain liable to do so at its own cost. In case of material failure, the bidder is to fulfill its contractual obligation as per the terms and conditions of the contract, the BG in full or part thereof may be forfeited at the discretion of the purchaser.

c. **Guarantee**. The supplier is to give a guarantee of continued supply of spares for at least 10 (Ten) years at a reasonable price (not exceeding 3% per year). Certificate is to be submitted with the offer.

d. **After Sales Service**. After sales service shall be available through the local agent of the supplier at least for 15 years after acceptance at mutually agreed cost.

25. **Validity**. The offer is to remain valid till 30 June 2027.

26. **Terms of Payment**. Payment shall be made through an Irrevocable Letter of Credit (LC). LC shall be opened at the expense of the PURCHASER and **100% LC** value shall be made operative in favour of Supplier. CFR value being the value of the supplied goods, payment shall be made as under:

a. **1st Installment**. 80% of CFR/ CPT value shall be paid **after shipment of hardware and software** and on submission of the following documents to the bank:

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(1) Original Airway Bill (AWL)/ Bill of Lading (BL) must be issued by air lines/ shipping lines or authorized agent of shipping lines/ air lines against DGDP contract reference (after signing the contract). LC number and Bangladesh bank registration number shall be mentioned in AWL/ BL. Freight amount must be shown separately; otherwise only FCA value shall be paid. The Bill of lading is to be submitted in three (03) original with three (03) copies. Rest all documents are to be submitted one (01) original with at least five (05) copies. In addition to this, following shall also be considered:

(a) Name of the carrier must be indicated in AWL/ BL.

(b) Must be signed by carrier or a named agent for/ on behalf of the carrier.

(2) 'Supplier's Signed Commercial Invoice' representing 80% of CFR/ CPT value as stated in the contract (freight/ services amount is to be shown separately, if applicable).

(3) 'Packing List' signed by the authorized representative of the shipping company or exporter.

(4) 'Certificate of Origin' signed by the Manufacturer's Authorized Representative/ Authorized Official of the exported country.

(5) 'Manufacturer's Certificate' signed by the manufacturer/ supplier, certifying that the product has been manufactured as per technical data/ analytical data and specification in the contract.

(6) 'Manufacturer's Warranty Certificate' signed by the OEM.

(7) 'Factory Acceptance Test (FAT) Completion Certificate' signed by the SUPPLIER.

(8) 'Quality Assurance Certificate' (QAC) signed by the OEM.

(9) 'Shipment Clearance Letter' Signed by DGDP (Directorate General Defense Purchase, Dhaka, Bangladesh) as PURCHASER.

b. **2nd Installment**. 20% of CFR/ CPT value shall be paid **after successfully commissioning the system** and on submission of the following documents to the bank:

(1) 'Final Acceptance Certificate' issued by the purchaser after successful completion of installation, HAT, SAT and commissioning of the item.

(2) The bidder shall submit the relevant document of 5% BG of CFR/ CPT value, which shall be released on submission of warranty completion certificate.

c. **Installment of Factory Acceptance Test (FAT), Local Training and Services**.

(1) **Factory Acceptance Test (FAT)**. 100% cost of FAT shall be paid **after successful completion of FAT** and on submission of 'FAT report'- signed by the PURCHASER for the successful completion of the 'FAT' in OEM premises.

(2) **Local Training**. 100% cost of Local Training shall be paid **after successful completion of local training** and on submission of 'Local Training Completion Certificate' signed by the purchaser.

(3) **Installation, Supervision and Setting to Work (STW)'**. 100% cost of Installation, Supervision and Setting to Work (STW) shall be paid after successful completion of the mentioned works and on submission of relevant completion certificate signed by the purchaser.

(4) **Test/ Trial and Acceptance**. 100% cost of Test/ Trial and Acceptance shall be paid **after successful completion** of final Test/ Trial and Acceptance and on submission of 'Final Test/ Trial and Acceptance Certificate' signed by the purchaser for the successful completion of Final Test/ Trial and Acceptance in Bangladesh.

27. **Price**. Price breakdown of the item of the total offer is to be shown separately (e.g. price of the main equipment, additional accessories, Installation, local training, warranty/ guarantee etc) and then grand total of the foreign currency to be shown on the original offer submitted by the bidder. Moreover, if the item is imported against this tender, price to be quoted without import duties.

DNW&E NHQ, Dhaka-1213 DL....

Directorate General Defence Purchase Ministry of Defence Date.....

28. **Compliance Statement**. A clear and complete compliance statement of the tender supported by the product catalogue and Brochure with necessary specification and drawing/ diagram is to be submitted for evaluation of the quotation. Incomplete compliance statement shall attribute to cancellation of the offer. If any clause of this specification does not commensurate with offered item practically, the deviation has to be spelt out clearly.



CamScanner