



Dockyard & Engineering Works Ltd.

Bangladesh Navy

Sonakanda, Bandar, Narayanganj-1413, Bangladesh

PABX: +88-02-223303512, Fax: +88-02-223303501

E-mail: plans@dewbn.gov.bd, Web: www.dewbn.gov.bd

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Date: /8 December 2025

EXPRESSION OF INTEREST (EOI)

1. Dockyard & Engineering Works Ltd, Bangladesh Navy, Sonakanda, Bandar, Narayanganj-1413 intends to have offer for **Supply & Installation of Heavy Electric Workshop Equipment's** from a reputed OEM/OEM Authorized Agent/supplier. Short description of the tender is as follows:

a. **Name of Equipment and Quantity.** List of equipment under package GD-34 as follows:

Ser	Name of the Equipment	Qty
a.	Rectifier, 24V DC, 500 Amps	1
b.	Rectifier, 115V DC, 50KW	1
c.	Rectifier, 220V DC, 75KW	1
d.	Rectifier Unit, 0-400V DC, 0-100 A (LP Section)	1
e.	Rectifier Unit, 600A, 12V DC (LP Section)	1
f.	Static Frequency Converter, input-380-415 Volt AC, 3 Ph, 50 Hz, 300KVA, Output- 0-440 Volt AC, 0-60 Hz	1
g.	Electrically Heated Industrial Oven, 15KW	1
h.	Electrically Heated Industrial Oven, 60KW	1
i.	DC Motor Starter, 110 V DC, 70A	1
j.	DC Motor Starter, 220 V DC, 350A	1
k.	AC Star/Delta Starter, input 380-440 V AC, 3Ph, 50/60 Hz, 110 KW	1
l.	Complete Variable Frequency Drive (VFD) with Starter, input 380-440 V AC, 3Ph, 50/60 Hz, 75 KW, output 0-400 Hz, 75KW, 3 Ph	1
m.	Electrical Test bench, Input : 380~440V AC, 50/60 Hz, Output: 0~450V, 250A & 0~500 V DC	1
n.	Speed Fit Bearing Heater	2
o.	Alternator test bench 500 kw	1
p.	Portable ac motor starter, 380-440 V AC, 3Ph, 50/60 Hz, 30 KW	1

b. **Country of Origin.** As described in the technical specification of individual items.

c. **Manufacturing Country.** As described in the technical specification of individual items.

d. **Basic Technical Specification.** As described in the technical specification of individual items.

e. **Standard.** The items/equipment's are to be brand new and original design and constructed fulfilling the requirements of international standard of health and safety. The standard to which the quoted items comply with are to be clearly specified in details with the offer. Standard Class certifications to be attached.



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f. **Qualification of Bidder.** The bidder is to be authorized by OEM/ OEM authorized agent/ dealer for the supply of the items as per this tender. In case of offer from OEM authorized agent/ dealer, certification of documents of such authorization/ agency/ dealership of OEM to the authorized agent/dealer is to be provided along with the offer. And also must have following documents:

1. Import registration certificate.
2. Attested copy of Valid Trade License or equivalent license.
3. VAT/ Business Registration Certificate.
4. Updated TIN/ equivalent certificate and Tax Payment Certificate.
5. Bank Solvency Certificate etc.

2. Interested OEM/ OEM authorized agent/ Supplier are hereby requested to contact following person of Planning & Design (P&D) department of DEW:

MD SHAHADAT HOSSAIN RUBEL

Deputy Chief Engineer (Mechanical)

Planning & Design Department

Dockyard & Engineering Works Ltd.

Bangladesh Navy

Sonakanda, Bandar, Narayanganj-1413.

Cell: +880 1769-719815

Email: dewltd.tender@gmail.com

3. Interested design firm/ shipbuilder/ supplier will have to submit all documents with signed and sealed by **25 November 2025** as per detailed Technical Specification of EOI (attached as enclosure).

4. Offer Validity: 120 days after submission.

5. DEW reserves all right to reject all or any part of the EOI prior to acceptance without showing any reason.

MD SHAHADAT HOSSAIN RUBEL
Deputy Chief Engineer (Mechanical)
For Managing Director

Enclosure:

1. Technical Specification - 38(Thirty Eight) pages.

**TECHNICAL SPECIFICATION OF HEAVY ELECTRIC WORKSHOP EQUIPMENT-
GD-34 (LOT-3)**

1. **Name of Equipment and Quantity.** List of equipment under package GD-34 (Lot-3) as follows:

Ser	Name of the Equipment	Qty
a.	Rectifier, 24V DC, 500 Amps	1
b.	Rectifier, 115V DC, 50KW	1
c.	Rectifier, 220V DC, 75KW	1
d.	Rectifier Unit, 0-400V DC, 0-100 A (LP Section)	1
e.	Rectifier Unit, 600A, 12V DC (LP Section)	1
f.	Static Frequency Converter, input-380-415 Volt AC, 3 Ph, 50 Hz, 300KVA, Output- 0-440 Volt AC, 0-60 Hz	1
g.	Electrically Heated Industrial Oven, 15KW	1
h.	Electrically Heated Industrial Oven, 60KW	1
i.	DC Motor Starter, 110 V DC, 70A	1
j.	DC Motor Starter, 220 V DC, 350A	1
k.	AC Star/Delta Starter, input 380-440 V AC, 3Ph, 50/60 Hz, 110 KW	1
l.	Complete Variable Frequency Drive (VFD) with Starter, input 380-440 V AC, 3Ph, 50/60 Hz, 75 KW, output 0-400 Hz, 75KW, 3 Ph	1
m.	Electrical Test bench, Input : 380~440V AC, 50/60 Hz, Output: 0~450V, 250A & 0~500 V DC	1
n.	Speed Fit Bearing Heater	2
o.	Alternator test bench 500 kw	1
p.	Portable ac motor starter, 380-440 V AC, 3Ph, 50/60 Hz, 30 KW	1

2. **Manufacturer.** Name, full address with e-mail and website of manufacturer are to be mentioned.
3. **Year of Manufacturing.** As described in the technical specification of individual items.
4. **Country of Origin.** As described in the technical specification of individual items.
5. **Manufacturing Country.** As described in the technical specification of individual items.
6. **Local Agent.** Name and Full address with e-mail of the local agent is to be mentioned (If any).
7. **Supplier/ Principal.** Name, Full address with e-mail and website of the supplier and manufacturer are to be mentioned.

8. **Standard.** The items/equipment are to be brand new and original design and constructed fulfilling the requirements of international standard of health and safety. The standard to which the quoted items comply with are to be clearly specified in details with the offer. Standard Class certifications to be attached.

9. **Qualification of Bidder.** The bidder is to be authorized by OEM/ OEM authorized agent/ dealer for the supply of the items as per this tender. In case of offer from OEM authorized agent/ dealer, certification of documents of such authorization/ agency/ dealership of OEM to the authorized agent/dealer is to be provided along with the offer.

10. **Certificate/Document of Authentication.** The bidder must provide the following certificate/ document with the offer/ quotation of items As per requirement paragraph 35 Certificate/ document required for all items listed in paragraph 1.

a. One certificate/ document by the manufacturer in favor of the bidder (in case of manufacturer as direct source).

b. Two certificates/ documents, one by the manufacturer to authorized agent and other by the authorized agent to bidder (in case of authorized agent as immediate source).

c. Three certificate/ documents, first one by the manufacturer to authorized agent, second one by authorized agent to sub-agent and third one by sub-agent to bidder (in case sub-agent as immediate source). If the bidder is unable to obtain the first certificate (by manufacturer to authorized agent), then it has to produce relevant document to prove agency-ship of its claimed agent of the recognized manufacturer.

11. **Scope of Supply.** The scope of supply is to include the followings:

a. As per technical specification with standard accessories including all fittings, fixtures mountings, and other necessary items whether mentioned or not make it practically functional for immediate operation.

b. Main items complete with all items necessary for immediate all types of operation without the requirement of any other items (attachments, accessories, consumables etc)

c. Installation to be made as per the instructions of the manufacturer or OEM Representative.

d. Tools/ Special Tools

e. Spare parts and Consumables.

f. Documentation.

g. Local training for operation and routine maintenance.

h. Any other items/ accessories essential for the immediate operation of the items whether mentioned above or not are to be provided within the scope of supply.

i. Testing and inspection.

12. **Operating Environment.** Goods with accessories are to be designed to operate in the following ambient condition:

Ser	Description	Specification
1.	Air temperature	5 ⁰ C to 45 ⁰ C
2.	Water temperature	5 ⁰ C to 40 ⁰ C
3.	Relative humidity	Up to 95 % (Non-condensing)
4.	Location	On the east bank of Meghna River at Gazaria, Munshigonj, Bangladesh
5.	Wind Speed	Average wind speed 4.5 m/sec (round the year) and Max. sustained wind speed 57.1 m/sec (Non-operating).
6.	Exposure	C
7.	Seismic Zone	Zone-02

13. **Necessary Accessories.** Main item with manufacturer recommended all standard and necessary accessories and attachments for smooth and immediate operation of the machine without the requirement of any other items (attachments, accessories, consumables, etc.) to be supplied with the required goods. A list of standard and necessary accessories should be submitted with the offer.

14. **Spare Parts.** A list of recommended fast moving spare parts with item wise price for machineries is to be provided with the quotation.

15. **Design and Record of Sales.** The quoted items should be newly made, latest model and up to date design incorporating modern technology. The original catalogue/brochure in support of the offered item is to be submitted with the quotation.

16. **Tools/ Special Tools.** 01 (one) set of tools and 01 (one) set of special tools for the operation, maintenance and repair of the machineries are to be supplied by supplier (price included in the total price).

17. **Optional Spares.** A list of optional spare parts is to be quoted separately with item wise price. The price of optional item will not be included with main offer.

18. **Documents.** Two (02) sets of following documents (in English language) are to be provided free of cost along with the machine:

- Operation and maintenance manual.
- Workshop level repair manual (including various repair instruction, clearance, tolerance, material specifications, etc).
- Installation instruction and drawings.
- Parts catalogue for all supplied items

19. **Warranty.**

a. Minimum 12 (Twelve) Month's warranty for trouble free operation is to be provided by the supplier/ manufacturer for the item from the date of acceptance by the buyer after satisfactory test trial and issuing of acceptance certificate. If any component of the supplied items becomes defective during the warranty period, the warranty shall be extended automatically (for relevant component) for the period of the subject component remains defective.

b. For warranty repair/ replacement, the supplier will collect the defective item from Bangladesh Coast Guard Dockyard, Gozaria, Munshigonj, Bangladesh (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.

20. **Guarantee.** The supplier is to give guarantee to supply service support and spare parts for at least 10 years at reasonable price.

21. **Technical Support.** Technical support is to be provided to solve any maintenance and operational problem arising with the item during the warranty period at free of cost.

22. **Quality Assurance Certificate.** Quality assurance certificate and factory test certificate in respect of the associated equipment in regard to its manufacturing and performance is to be provided at the time of delivery of the items. ISO/CE/ equivalent certification need to be provided.

23. **Safety standard.** All tools must comply with an internationally recognized safety standard. The standard to which it complies must be mentioned with the offer.

24. **Test, trial and Acceptance.**

a. Factory Acceptance Test (FAT)

b. Site Acceptance Test (SAT): will be jointly tested at site after successful installation and commissioning.

c. After satisfactory test trials an acceptance certificate will be provided by the Chief Inspector & Quality Control (CI & QC) of Bangladesh Coast Guard.

d. Cost of test/trials and commissioning of all items have to be provided by the supplier. However, for the test trail the required materials has to be provided by Supplier.

25. **Local Service Support.** The supplier must ensure the availability of a local service support team in Bangladesh for maintenance, troubleshooting, and after-sales service.

The team shall:

- a. Respond to service calls within 3 working days
- b. Provide on-site support at BCG Dockyard, Gazaria

The offer must include:

- a. Details of the local service provider (name, address, contact)
- b. CV of key technical personnel (at least 3 in number 5 years experienced engineer)

26. **Shipment & Delivery.**

- a. The equipment and all other required items are to be delivered within 06 Months from the date of signing the contract to the following consignee: Project Director "Establishment of Logistics and Fleet Maintenance Facilities for Bangladesh Coast Guard" project Headquarters Bangladesh Coast Guard Agargaon Administrative Area Sher-E-Bangla Nagor, Dhaka-1207
- b. All items with all other associated accessories has to be delivered to the installation site at Bangladesh Coast Guard Dockyard at Gazaria, Munshiganj.
- c. Initial inspection will be carried out by Chief Inspector & Quality Control (CI & QC) of BCG.
- d. All packages are to 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.

27. **Port of Shipment.** Must be shipped from any port from the Country of Manufacturer or Country of Origin (Relevant document is to be submitted prior to shipment of the items).

28. **Local training.** Operation and Maintenance Training will be provided by OEM/authorized representative for 05 (Five) working days. All expenditure related to trainer will be borne by supplier.

29. **Condition for Acceptance of Quotation.** Quotation may not be considered if detailed information/ specifications, original maker's books and catalogue about the same model of the offered item, accessories, scope of supply etc. are not provided.

30. **Audio visual presentation.** It shall be better, the bidder provides sufficient audio-visual presentation like videos, online contents, ppt etc. for explaining the general and technical specification of the equipment (If applicable).

31. **Terms of payment.** After satisfactory test, trial and acceptance by Chief Inspector & Quality Control (CI & QC) of BCG payment will be made in local currency as per the existing rule.

32. **Compliance Statement.** A compliance statement fulfilling the entire requirement mentioned above to be meticulously prepared by supplier and submitted for proper evaluation of offer. Any deviation from the specification is also to be mentioned in the offer. Mentioning of "Yes/ No/ Complied" will not be enough. An incomplete compliance statement may attribute to cancellation of the offer. Necessary brochures/ catalogues are to be submitted with the offer to validate compliance statement.

33. **Site Visit.** To ensure a clear understanding of the installation environment and logistical conditions, interested bidders are encouraged to visit the project site at Bangladesh Coast Guard Dockyard, Gazaria, Munshiganj, prior to submitting their offer.

34. **Pre-Shipment Inspection (PSI) / FAT/Foreign Training.** Factory acceptance test (FAT)/ pre-shipment inspection (PSI)/ Foreign Training in factory will be carried out for major equipment. FAT /PSI/Foreign Training by a team of three (03) Officers (Engineering background) for a duration of total four (04) days excluding journey time. The supplier shall inform the buyer about the date and schedule of FAT /PSI/foreign training at least 08 (eight) weeks prior to the date of commencement of the said FAT /PSI/foreign training. After trial/ inspection/ training a joint report will be prepared and signed by both the seller and buyer's representatives. All costs related to FAT /PSI/Foreign Training has to be quoted separately with the offer. **The Relevant cost of FAT/PSI/foreign training Must be included in Final offered Price.**

35. **Item with Technical Specification**. The detail technical specification of the individual items is given in the subsequent paragraphs:

1. TECHNICAL SPECIFICATION OF RECTIFIER 24V DC, 500 AMPS WITH ACCESSORIES



Picture of Rectifier 24V DC, 500 Amps (Only for information purpose and may differ from actual products)

Ser	Technical Parameter	Description
a.	Brand and Model	Any international recognized brand and latest model (To be mentioned).
b.	Type	To be mentioned
c.	Purpose.	It will be used for providing a stable DC power supply from an AC source (converting AC to DC) for equipment or systems that require DC to operate.
d.	Quantity	01 (One) complete system.

Ser	Technical Parameter	Description
e.	Year of Manufacture	2024 or later.
f.	Country of Origin	USA, UK, Canada, Australia, Japan, EU Countries, Turkey, Singapore, South Korea and GCC Countries (To be mentioned).
g.	Manufacturing Country	USA, UK, Canada, Australia, Japan, EU Countries, Turkey, China, Taiwan, Singapore, South Korea and GCC Countries, (To be mentioned).
h.	Dimension (L mm x W mm x H mm)	To be mentioned (Compact and smaller size is preferable)
i.	Cooling type	Air Cool
j.	Case material	To be mentioned
k.	Weight	To be mentioned
AC Input		
l.	Input Power	220-240 V ($\pm 10\%$) 50 Hz Three Phase AC.
m.	Power Factor	0.8 or better
DC Output		
n.	Voltage	0-24V DC (Adjustable).
o.	Current	0-500A (Adjustable).
p.	Maximum Power	To be mentioned
q.	Peak Efficiency	Not less than 90%
Battery Charge Option		
r.	Battery type	VRLA/ OPzV/ OpzS: / Ni-cd or equivalent
s.	Boost Charge Timer	0-20 Hours (Adjustable) or better
t.	Voltage Adjustable Range	Minimum 90% Nominal Voltage
u.	Battery protection	Temperature Compensating Charge / Battery Current Limiting, Load on Battery, Charger, Failure, Emergency Stop or equivalent.
Preferred Indicators		
v.	Green LED	Mains present
w.	Amber LED	Output fuse blown
x.	Standard communication	Passive: Infinite/ Active: Up to 4 Units or better HMI: LED/ LCD Panel Languages: English.
y.	Protection	Short circuit protection Overheating protection. Phase lack protection. Input over/low voltage protection
z.	Standard Accessories	All standard accessories are to be supplied which are essential to install and operate the Rectifier, whether those are mentioned in the tender specification or not.
aa.	Noise level	As Per OEM Standard (details to be mentioned).
bb.	IP	As Per OEM Standard.

Ser	Technical Parameter	Description
cc.	Safety Feature	a. Over-current protection (fast acting) b. Over-voltage protection on DC side c. Short-circuit protection d. Thermal protection on semiconductors, transformer e. Ground fault detection f. Reverse current protection / blocking diodes or circuits
dd.	Packaging	OEM recommended fully sealed box available with accessories.
Note: If any specific dimension of the item is not commercially available, then the nearby commercially available specification/ dimension can be offered.		

2. TECHNICAL SPECIFICATION OF RECTIFIER, 115V DC, 50 KW WITH ACCESSORIES



Picture of Rectifier 115V DC, 50 kw (Only for information purpose and may differ from actual products)

Ser	Technical Parameter	Description
a.	Brand and Model	Any international recognized brand and latest model (To be mentioned).
b.	Type	To be mentioned
c.	Purpose.	It will be used for providing a stable DC power supply from an AC source (converting AC to DC) for equipment or systems that require DC to operate.
d.	Quantity.	01 (One) complete system.
e.	Year of Manufacture.	2024 or later.
f.	Country of Origin	USA, UK, Canada, Australia, Japan, EU Countries, Turkey, Singapore, South Korea and GCC Countries (To be mentioned).
g.	Manufacturing Country	USA, UK, Canada, Australia, Japan, EU Countries Turkey, China, Taiwan, Singapore, South Korea and GCC Countries, (To be mentioned).
h.	Dimension (L mm x W mm x H mm)	To be mentioned (Compact and smaller size is preferable)
i.	Cooling type	Air Cool (To be mentioned)
j.	Case material	To be mentioned.
k.	Safety	To be mentioned.
l.	Weight	To be mentioned.
AC INPUT		
m.	Voltage	415 V AC ($\pm 10\%$)
n.	Frequency	45 - 65 Hz or better
o.	Maximum Current	86A or better
p.	Power Factor	0.8 or better
DC OUTPUT		
q.	Voltage	115 V DC
r.	Maximum Power	50KW or better

Ser	Technical Parameter	Description
s.	Maximum Current	435A or better
t.	Voltage resolution	0.01V or better
u.	Current resolution	0.01V or better
v.	Peak Efficiency	93% or better
INDICATORS		
w.	Green LED	Mains present
x.	Amber LED	Output fuse blown
y.	Standard Accessories	All standard accessories are to be supplied which are essential to install and operate the Rectifier, whether those are mentioned in the tender specification or not.
z.	Protection	1) Over-current protection (fast acting) 2) Over-voltage protection on DC side 3) Short-circuit protection 4) Thermal protection on semiconductors, transformer 5) Ground fault detection 6) Reverse current protection / blocking diodes or circuits
aa.	Noise level	As Per OEM Standard (details to be mentioned).
bb.	Packaging	OEM recommended fully sealed box available with accessories.
cc.	IP	As per international standard (To be mentioned)
Note: If any specific dimension of the item is not commercially available, then the nearby commercially available specification/ dimension can be offered.		

3. TECHNICAL SPECIFICATION OF RECTIFIER 220V DC, 75KW WITH ACCESSORIES



Picture of Rectifier 220V DC, 75 kw (Only for information purpose and may differ from actual products)

Ser	Technical Parameter	Description
a.	Brand and Model	Any international recognized brand and latest model (To be mentioned).
b.	Type	To be mentioned
c.	Purpose	It will be used for providing a stable DC power supply from an AC source (converting AC to DC) for equipment or systems that require DC to operate.
d.	Quantity	01 (One) complete system.
e.	Year of Manufacture	2024 or later.
f.	Country of Origin	USA, UK, Canada, Australia, Japan, EU Countries, Turkey, Singapore, South Korea and GCC Countries (To be mentioned).
g.	Manufacturing Country	USA, UK, Canada, Australia, Japan, EU Countries Turkey, China, Taiwan, Singapore, South Korea and GCC Countries, (To be mentioned).
h.	Dimension (L mm x W mm x H mm)	To be mentioned (Compact and smaller size is preferable)
i.	Cooling type	Air Cool (To be mentioned)
j.	Case material	Min 1.2mm steel, white powder coated (To be mentioned)
k.	Weight	To be mentioned.
AC Input		
l.	Voltage	415 V AC ($\pm 10\%$)
m.	Frequency	45 - 65 Hz or better
n.	Power Factor	>0.8 or better
DC Output		
o.	Voltage	220 V DC
p.	Capacity	Min 75 KW or better
q.	Output DC current	300A or better
r.	Peak Efficiency	93% or better

Ser	Technical Parameter	Description
Indicators		
s.	Green LED	Mains present
t.	Amber LED	Output fuse blown
u.	Standard Accessories	All standard accessories are to be supplied which are essential to install and operate the Rectifier, 220V DC, 75DW whether those are mentioned in the tender specification or not.
v.	Protection	1) Over-current protection (fast acting) 2) Over-voltage protection on DC side 3) Short-circuit protection 4) Thermal protection on semiconductors, transformer 5) Ground fault detection 6) Reverse current protection / blocking diodes or circuits
w.	Noise level	As per international standard (Details to be mentioned).
x.	Packaging	OEM recommended fully sealed box available with accessories.
Note: If any specific dimension of the item is not commercially available, then the nearby commercially available specification/ dimension can be offered.		

4. TECHNICAL SPECIFICATION OF RECTIFIER UNIT 0-400V DC, 0-100 A
(LP SECTION) WITH ACCESSORIES



Picture of Rectifier Unit 0-400v Dc, 0-100 A (LP Section) (Only for information purpose and may differ from actual products)

Ser	Technical Parameter	Description
a.	Brand and Model	Any international recognized brand and latest model (To be mentioned).
b.	Type	To be mentioned
c.	Purpose	It will be used for providing variable DC voltage from an AC source (converting AC to DC) for equipment or systems that require variable DC to operate.
d.	Quantity	01 (One) complete system.
e.	Year of Manufacture	2024 or later.
f.	Country of Origin	USA, UK, Canada, Australia, Japan, EU Countries Turkey, Singapore, South Korea and GCC Countries (To be mentioned).
g.	Manufacturing Country	USA, UK, Canada, Australia, Japan, EU Countries, Turkey, China, Taiwan, Singapore, South Korea and GCC Countries, (To be mentioned).
h.	Dimension (L mm x W mm x H mm)	To be mentioned (Compact and smaller size is preferable)
AC INPUT		
i.	Voltage	415 V AC ($\pm 10\%$) 50-60 Hz Three Phase
DC OUTPUT		
j.	Voltage	0 - 400 V DC Adjustable
k.	Maximum Power	40 KW or better
l.	Maximum Current	100 Amps DC (0-100 Amps Adjustable)
m.	Frequency	45 Hz to 65 Hz
n.	Efficiency	$\geq 90\%$ or better

Ser	Technical Parameter	Description
o.	Protection	1) Over-current protection (fast acting) 2) Over-voltage protection on DC side 3) Short-circuit protection 4) Thermal protection on semiconductors, transformer 5) Ground fault detection 6) Reverse current protection / blocking diodes or circuits
p.	Weight	To be mentioned
q.	Packaging	OEM recommended fully sealed box available with accessories.
Note: If any specific dimension of the item is not commercially available, then the nearby commercially available specification/ dimension can be offered.		

5. TECHNICAL SPECIFICATION OF RECTIFIER UNIT 600A, 12V DC (LP SECTION) WITH ACCESSORIES



Picture of Rectifier Unit 600A, 12V DC (LP Section) (Only for information purpose and may differ from actual products)

Ser	Technical Parameter	Description
a.	Brand and Model	Any international recognized brand and latest model (To be mentioned).
b.	Type	To be mentioned
c.	Purpose	It will be used for providing a stable DC power supply from an AC source (converting AC to DC) for equipment or systems that require DC to operate.
d.	Quantity	01 (One) complete system.
e.	Year of Manufacture	2024 or later.
f.	Country of Origin	USA, UK, Canada, Australia, Japan, EU Countries, Turkey, Singapore, South Korea and GCC Countries (To be mentioned).
g.	Manufacturing Country	USA, UK, Canada, Australia, Japan, EU Countries Turkey, China, Taiwan, Singapore, South Korea and GCC Countries, (To be mentioned).
h.	Dimension (L mm x W mm x H mm)	To be mentioned (Compact and smaller size is preferable)
AC Input		
i.	Voltage	415 V AC ($\pm 10\%$) 50-60 Hz Three Phase.
DC Output		
j.	Voltage	12 V DC
k.	Maximum Power	Min 7.5 KW or better
l.	Maximum Current	600 Amp DC or better
m.	Efficiency	Min $\geq 90\%$
n.	Weight	To be mentioned.
o.	Protection	1) Over-current protection (fast acting) 2) Over-voltage protection on DC side 3) Short-circuit protection 4) Thermal protection on semiconductors, transformer

Ser	Technical Parameter	Description
		5) Ground fault detection 6) Reverse current protection/ blocking diodes or circuits
p.	Packaging	OEM recommended fully sealed box available with accessories.
Note: If any specific dimension of the item is not commercially available, then the nearby commercially available specification/ dimension can be offered.		

6. TECHNICAL SPECIFICATION OF STATIC FREQUENCY CONVERTER 300KVA, VARIABLE INPUT, OUTPUT WITH ACCESSORIES



Picture of Static Frequency Converter 300KVA, Variable Input, Output (Only for information purpose and may differ from actual products)

Ser	Technical Parameter	Description
a.	Brand and Model	Any international recognized brand and latest model (To be mentioned).
b.	Type	To be mentioned
c.	Purpose	It will be used for change the frequency of AC power to match the requirements of a specific load, system or application.
d.	Quantity	01 (One) complete system.
e.	Year of Manufacture	2024 or later.
f.	Country of Origin	USA, UK, Canada, Australia, Japan, EU Countries Turkey, Singapore, South Korea and GCC Countries (To be mentioned).
g.	Manufacturing Country	USA, UK, Canada, Australia, Japan, EU Countries, Turkey, China, Taiwan, Singapore, South Korea and GCC Countries, (To be mentioned).
<u>Utility – Input</u>		
h.	Voltage	415 V AC ($\pm 10\%$), 50/60 Hz, 3 Phase.
i.	Capacity	300 KVA or better
<u>Load – Output</u>		
j.	Voltage	200V AC/ 400V AC/ 480V AC 3 phase
k.	Frequency	0-60Hz (Variable)
l.	Output Current	Max 400A for three phase and 1000 Amps for single phase supply.
m.	Voltage tolerance	$\pm 10\%$
n.	Voltage Accuracy	$\pm 1\%$
o.	Frequency tolerance	± 0.5 Hz
p.	Frequency Stability / Accuracy	$\pm 0.1\%$
<u>Inverter</u>		
q.	Static Regulation	0 - 100% load $\pm 1\%$

Ser	Technical Parameter	Description
	Dynamic regulation	100% 5%, recovering to 1% within 40ms
	Total harmonic distortion	< 3% (Linear Load)
	Electronic Limit Overload	120%@600s; 150%@60s; 200%@2s
	Overload Capacity (IGBTs)	150% Continuous
	Load power factor	0-1
	Frequency stability	±0.01% Crystal Controlled
	Efficiency	up to 97%
	Note: Short circuit proof by electric current limiting and shutdown	
Performance		
r.	Efficiency	≥90% or better
General		
s.	Dimension (L mm x W mm x H mm)	To be mentioned (Compact and smaller size is preferable)
t.	User interface	To be mentioned
u.	Cooling type	To be mentioned
v.	Rectification	IGBT
w.	Materials	Electro-galvanized steel (Preferred),(To be mentioned)
x.	Weight	To be mentioned
Control Interface		
y.	Digital inputs (voltage free contacts)	To be mentioned
z.	Packaging	OEM recommended fully sealed box available with accessories.
Note: If any specific dimension of the item is not commercially available, then the nearby commercially available specification/ dimension can be offered.		

7. TECHNICAL SPECIFICATION OF ELECTRICALLY HEATED INDUSTRIAL OVEN 15KW



Picture of Electrically Heated Industrial OVEN 15KW (Only for information purpose and may differ from actual products)

Ser	Technical Parameter	Description
a.	Brand and Model	Any international recognized brand and latest model (To be mentioned).
b.	Type	To be mentioned
c.	Purpose.	It will be used for providing heat for materials or products to a specific temperature for drying, curing, baking, annealing, or heat treatment in a clean, controlled and efficient way.
d.	Quantity.	01 (One) complete system.
e.	Year of Manufacture.	2024 or later.
f.	Country of Origin	USA, UK, Canada, Australia, Japan, EU Countries, Turkey, Singapore, South Korea and GCC Countries (To be mentioned).
g.	Manufacturing Country	USA, UK, Canada, Australia, Japan, EU Countries Turkey, China, Taiwan, Singapore, South Korea and GCC Countries, (To be mentioned).
h.	Inner Dimension (L x B x H) mm	Min (1500 x 1500 x 1500) mm (To be mentioned)
i.	Heating Power	15 KW or better
j.	Volume	Not less than 450 liters
k.	Internal chamber Material	Stainless steel plate+ Powder coated (Preferred), (To be mentioned)
l.	External chamber Material	Stainless steel plate (Preferred) (To be mentioned)
m.	Working temperature	Ambient to 500°C (± 2 °C accuracy) (To be mentioned)
n.	Air circulation	Horizontal/vertical (To be mentioned)
o.	Heating Media	Electric
p.	Capacity	To be mentioned
q.	Control System	PLC controlled (Preferred), (To be mentioned)
r.	Type	Cabinet Ovens (Preferred), (To be mentioned)
s.	Door Type	Single Door (Preferred), (To be mentioned)
t.	Oven Type	Industrial
u.	Power Supply	415 V AC ($\pm 10\%$), 50/ 60 Hz, 3 Phase.

Ser	Technical Parameter	Description
v.	Packaging	OEM recommended fully sealed box available with accessories.
Note: If any specific dimension of the item is not commercially available, then the nearby commercially available specification/ dimension can be offered.		

8. TECHNICAL SPECIFICATION OF ELECTRICALLY HEATED INDUSTRIAL OVEN 60KW



Picture of Electrically Heated Industrial Oven 60kw (Only for information purpose and may differ from actual products)

Ser	Technical Parameter	Description
a.	Brand and Model	Any international recognized brand and latest model (To be mentioned).
b.	Type	To be mentioned
c.	Purpose	It will be used to provide heat for materials or products to a specific temperature for drying, curing, baking, annealing, or heat treatment in a clean, controlled and efficient way.
d.	Quantity.	01 (One) complete system.
e.	Year of Manufacture	2024 or later.
f.	Country of Origin	USA, UK, Canada, Australia, Japan, EU Countries, Turkey, Singapore, South Korea and GCC Countries (To be mentioned).
g.	Manufacturing Country	USA, UK, Canada, Australia, Japan, EU Countries Turkey, China, Taiwan, Singapore, South Korea and GCC Countries, (To be mentioned).
h.	Inner Dimension (L x B x H) mm	Min (2100 x 2000 x 2000) mm (To be mentioned)
i.	Heating Power	60 KW or better
j.	Volume	Not less than 450 Ltrs
k.	Internal chamber Material	Stainless steel plate+ Powder coated (Preferred), (To be mentioned)
l.	External chamber Material	Stainless steel plate (Preferred), (To be mentioned)
m.	Working Temperature	Up to 700°C (accuracy ± 2 °C or better)
n.	Air circulation	Horizontal/vertical (Preferred) (To be mentioned)
o.	Timer	0 to 999 Minute/ Seconds
p.	Heating Media	Electric
q.	Capacity	To be mentioned

Ser	Technical Parameter	Description
r.	Control System	PLC controlled (Preferred), (To be mentioned)
s.	Type	Cabinet Ovens (Preferred), (To be mentioned)
t.	Door Type	Single Door (Preferred), (To be mentioned)
u.	Oven Type	Industrial
v.	Power Supply	415 V AC ($\pm 10\%$) 50/ 60 Hz 3 Phase.
w.	Packaging	OEM recommended fully sealed box available with accessories.
Note: If any specific dimension of the item is not commercially available, then the nearby commercially available specification/ dimension can be offered.		

9. TECHNICAL SPECIFICATION OF DC MOTOR STARTER 110 V DC, 70A



Picture of DC Motor Starter 110 V DC, 70A (Only for information purpose and may differ from actual products)

Ser	Technical Parameter	Description
a.	Brand and Model	Any international recognized brand and latest model (To be mentioned).
b.	Type	To be mentioned
c.	Purpose	It will be used to start & stop DC motors (for testing after/before repair) safely by limiting high starting current that flows through a DC motor when it is first switched on and to protect the motor and circuit from damage.
d.	Quantity	01 (One) complete system.
e.	Year of Manufacture	2024 or later.
f.	Country of Origin	USA, UK, Canada, Australia, Japan, EU Countries, Turkey, Singapore, South Korea and GCC Countries (To be mentioned).
g.	Manufacturing Country	USA, UK, Canada, Australia, Japan, EU Countries Turkey, China, Taiwan, Singapore, South Korea and GCC Countries, (To be mentioned).
h.	Dimension (L mm x W mm x H mm)	To be mentioned (Compact and smaller size is preferable)
i.	Starter Type	4 point starter (Preferred), (To be mentioned)
j.	Configuration	Shunt & Compound motor starting
k.	Voltage	110 V DC
l.	Current	70 Amps or better
m.	Power Source	DC
n.	Overload Protection	Provided (thermal / magnetic overload relay)

Ser	Technical Parameter	Description
o.	Under-voltage Protection	Yes (coil drop-off type)
p.	Mounting Type	Panel Mounted
q.	Material	Enclosure: ABS Plastic (preferred); Internal components made of metal and insulated materials.
r.	Power	Up to 10 HP (To be mentioned)
s.	Power Supply	The system should operate on 110 V DC supply. Auxiliary power: 12/24V DC (if applicable).
t.	Packaging	OEM recommended fully sealed box available with accessories.
Note: If any specific dimension of the item is not commercially available, then the nearby commercially available specification/ dimension can be offered.		

10. TECHNICAL SPECIFICATION OF DC MOTOR STARTER 220V DC, 350A



Picture of DC Motor Starter 220V DC, 350A (Only for information purpose and may differ from actual products)

Ser	Technical Parameter	Description
a.	Brand and Model	Any international recognized brand and latest model (To be mentioned).
b.	Type	To be mentioned
c.	Purpose.	It will be used to start & stop DC motors (for testing after/before repair) safely by limiting high starting current that flows through a DC motor when it is first switched on and to protect the motor and circuit from damage.
d.	Quantity.	01 (One) complete system.
e.	Year of Manufacture.	2024 or later.
f.	Country of Origin	USA, UK, Canada, Australia, Japan, EU Countries, Turkey, Singapore, South Korea and GCC Countries (To be mentioned).
g.	Manufacturing Country	USA, UK, Canada, Australia, Japan, EU Countries Turkey, China, Taiwan, Singapore, South Korea and GCC Countries, (To be mentioned).
h.	Dimension (L mm x W mm x H mm)	To be mentioned (Compact and smaller size is preferable)
i.	Starter Type	4 point starter (Preferred),(To be mentioned)
j.	Configuration	Shunt & Compound motor starting
k.	Voltage	220 V DC
l.	Current	350Amps or better
m.	Power Source	DC
n.	Material	ABS Plastic (preferred); internal parts shall be metallic and insulated.
o.	Power	up to 150 HP (To be mentioned)
p.	Power Supply	The system shall operate on 220V DC. Auxiliary power input: 12V/24V DC (if applicable).
q.	Packaging	OEM recommended fully sealed box available with accessories.

Note: If any specific dimension of the item is not commercially available, then the nearby commercially available specification/ dimension can be offered.

11. TECHNICAL SPECIFICATION OF AC STAR/ DELTA STARTER INPUT
380-440V AC, 3PH, 50/60 HZ, 110 KW



Picture of Ac Star/ Delta Starter Input 380-440V Ac, 3ph, 50/60 Hz, 110 KW
(Only for information purpose and may differ from actual products

Ser	Technical Parameter	Description
a.	Brand and Model	Any international recognized brand and latest model (To be mentioned).
b.	Type	To be mentioned
c.	Purpose	It will be used to start and stop a three-phase induction motor safely and efficiently by reducing the starting current and torque during start up. It also provides a low voltage & over current protection in a three Phase induction motor.
d.	Quantity	01 (One) complete system
e.	Year of Manufacture	2024 or later.
f.	Country of Origin	USA, UK, Canada, Australia, Japan, EU Countries, Turkey, Singapore, South Korea and GCC Countries (To be mentioned).
g.	Manufacturing Country	USA, UK, Canada, Australia, Japan, EU Countries Turkey, China, Taiwan, Singapore, South Korea and GCC Countries, (To be mentioned).
h.	Dimension (L mm x W mm x H mm)	To be mentioned (Compact and smaller size is preferable)
i.	Starter Type	Star Delta starter.
j.	Configuration	AC Motor Control
k.	Voltage	415 V AC ($\pm 10\%$), 50-60 Hz, 3 Phase
l.	Current Rating	200 Amps or better
m.	Material	Mild Steel (Preferred),(To be mentioned)
n.	Power	110 KW or better
o.	Automation Grade	Automatic/Manual (To be mentioned)
p.	Net weight	To be mentioned.

Ser	Technical Parameter	Description
q.	Power Supply	The system should run with Main Supply: 440V AC, 3Ph, 50/60 Hz; Control Supply: 12/24 V DC (which is applicable).
r.	Packaging	OEM recommended fully sealed box available with accessories.
Note: If any specific dimension of the item is not commercially available, then the nearby commercially available specification/ dimension can be offered.		

12. TECHNICAL SPECIFICATION OF COMPLETE VARIABLE FREQUENCY DRIVE (VFD) WITH STARTER, INPUT: 380-440V AC, 50/60 Hz, 75KW, OUTPUT: 0-400 Hz, 75KW, 3Ph



Picture of Complete Variable Frequency Drive (Vfd) With Starter, Input: 380-440v Ac, 50/60 Hz, 75KW, Output: 0-400 Hz, 75KW, 3Ph (Only for information purpose and may differ from actual products)

Ser	Technical Parameter	Description
a.	Brand and Model	Any international recognized brand and latest model (To be mentioned).
b.	Type	To be mentioned
c.	Purpose	It will be used to control the speed, torque, and direction of an AC motor efficiently by varying the frequency and voltage of its power supply.
d.	Quantity	02 (Two) complete system.
e.	Year of Manufacture	2024 or later.
f.	Country of Origin	USA, UK, Canada, Australia, Japan, EU Countries, Turkey, Singapore, South Korea and GCC Countries (To be mentioned).
g.	Manufacturing Country	USA, UK, Canada, Australia, Japan, EU Countries Turkey, China, Taiwan, Singapore, South Korea and GCC Countries, (To be mentioned).
h.	Dimension (L mm x W mm x H mm)	To be mentioned (Compact and smaller size is preferable)
i.	Input rating	Input 380-440 V AC, 3Ph, 50/60 Hz, 75 KW
j.	Output rating	Output 0-400 Hz, 75KW, 3 Ph
k.	Starter Type	VFD Starter
l.	Configuration	AC Motor Control
m.	Voltage	415 V AC $\pm 10\%$
n.	Phase	3 phase

Ser	Technical Parameter	Description
o.	Current Rating	Min 150A or better
p.	Material	Mild Steel (Preferred), (To be mentioned)
q.	Output Power	75 KW or better
r.	Efficiency	Min 93% at rated load
s.	Frequency range	0 to 400 Hz.
t.	Power Factor	0.95 or better
u.	Automation Grade	Automatic/Manual (To be mentioned)
v.	Net weight	To be mentioned
w.	Cooling method	To be mentioned
x.	Startup method	To be mentioned
y.	Stop method	To be mentioned
z.	Overload capacity	150% of its rated current for 60 seconds and 180% for 3 seconds or better
aa.	Power Supply	The system should run with Main Supply: 380–440V AC, 3Ph, 50/60 Hz; Control Supply: 12/24 V DC (which is applicable).
bb.	Packaging	OEM recommended fully sealed box available with accessories.
Note: If any specific dimension of the item is not commercially available, then the nearby commercially available specification/ dimension can be offered.		

13. TECHNICAL SPECIFICATION OF ELECTRICAL TEST BENCH, INPUT: 380~440V AC, 50/60 Hz, OUTPUT: 0~450V AC (VARIABLE) & 0~500V DC



Picture of Electrical Test Bench, Input: 380~440V AC, 50/60 Hz, OUTPUT: 0~450V AC (VARIABLE) & 0~500V DC (Only for information purpose and may differ from actual products)

Ser	Technical Parameter	Description
a.	Brand and Model	Any international recognized brand and latest model (To be mentioned).
b.	Type	To be mentioned
c.	Purpose	It will be used to test, inspect, and troubleshoot electrical and electronic equipment or components in a safe, controlled and organized environment incorporating with variable electrical power sources, measuring instruments and safety features.
d.	Quantity	01 (One) complete system.
e.	Year of Manufacture	2024 or later
f.	Country of Origin	USA, UK, Canada, Australia, Japan, EU Countries Turkey, Singapore, South Korea and GCC Countries (To be mentioned).
g.	Manufacturing Country	USA, UK, Canada, Australia, Japan, EU Countries, Turkey, China, Taiwan, Singapore, South Korea and GCC Countries, (To be mentioned).
h.	Dimension (L mm x W mm x H mm)	To be mentioned (Compact and smaller size is preferable)
i.	Input voltage	380-440V AC 50/60Hz, 3 Phase
j.	Output voltage	0-450V AC (Variable) single and three phase both & 0-500V DC (Variable)
k.	Output Current	Up to 500A (Approx.) or nearby in

Ser	Technical Parameter	Description
		commercially available. (To be mentioned)
l.	Safety features	To be mentioned
m.	Other features	Voltmeter Ammeter Over voltage, short circuit, over current protections Thermal protection Different types of connecting probes Different regulators
n.	Weight	To be mentioned (Lighter weight is preferable)
o.	Packaging	OEM recommended fully sealed box available with accessories.
Note: If any specific dimension of the item is not commercially available, then the nearby commercially available specification/ dimension can be offered.		

14. TECHNICAL SPECIFICATION OF SPEED FIT BEARING HEATER



Picture of Speed Fit Bearing Heater (Only for information purpose and may differ from actual products)

Ser	Technical Parameter	Description
a.	Brand and Model	Any international recognized brand and latest model (To be mentioned).
b.	Type	To be mentioned
c.	Purpose	It will be used for providing sufficient heat to bearings and similar metal components quickly and evenly before installation without using excessive mechanical force and risk of damage of equipment/components.
d.	Quantity	02 (Two) complete system
e.	Year of Manufacture	2024 or later.
f.	Country of Origin	USA, UK, Canada, Australia, Japan, EU Countries Turkey, Singapore, South Korea and GCC Countries (To be mentioned).
g.	Manufacturing Country	USA, UK, Canada, Australia, Japan, EU Countries, Turkey, China, Taiwan, Singapore, South Korea and GCC Countries, (To be mentioned).
h.	Dimension	To be mentioned (Compact and smaller size is preferable)
i.	Work piece bore diameter	20 to 400mm
j.	Operating area height	To be mentioned.
k.	Operating area width	To be mentioned.
l.	Coil diameter	To be mentioned.
m.	Heating temperature (max)	250 °C or better
n.	Power consumption(max)	3.6 KVA or better
o.	Voltage	220V – 240V
p.	Voltage Frequency	50 -60 Hz or better
q.	Heating temperature steps	To be mentioned.
r.	Heating temperature control	0 to 250 °C
s.	Temperature measurement	Magnetic probe k-type
t.	Heating time steps	o.1 min or better

Ser	Technical Parameter	Description
u.	Heating time control	0.1 - 60 minutes or better
v.	Temperature mode	Yes
w.	Time mode	Yes
x.	Power setting	25% - 100%
y.	Remote control panel (wired)	Yes, with LED display
z.	Demagnetization after heating (according SKF norms)	< 2 A/CM CE certification,)I
aa.	Error guiding codes	Yes
bb.	Thermal overload protection	Yes
cc.	Housing material	To be mentioned
dd.	Bearing support arms	Yes
ee.	Yoke storage	Yes
ff.	Main yoke type	To be mentioned
gg.	Weight	To be mentioned
hh.	Induction heater trolley	To be mentioned.
ii.	safety standard	IEC, ISO or equivalent.
jj.	Packaging	OEM recommended fully sealed box available with accessories.
Note: If any specific dimension of the item is not commercially available, then the nearby commercially available specification/ dimension can be offered.		

15. TECHNICAL SPECIFICATION OF ALTERNATOR TEST BENCH 500KW



Picture of Alternator Test Bench 500KW (Only for information purpose and may differ from actual products)

Ser	Technical Parameter	Description
a.	Name of Equipment	Alternator Test Bench (Digital, Computerized Type)
b.	Purpose / Application	For comprehensive functional testing, performance verification, and diagnostic analysis of automotive, marine, and industrial alternators, starter motors, and generators up to 500 kW capacity. The system shall support testing under variable electrical load, speed, voltage, frequency, and communication protocol conditions, including automatic recognition of 12 V and 24 V systems and generator load testing up to 500 kW using an integrated or external resistive/reactive load bank.
c.	Quantity	01 (One) Complete Set
d.	Year of Manufacture	2025 or later
e.	Country of Origin	USA, UK, Canada, Australia, Japan, EU Countries Turkey, China, India, Singapore, South Korea and GCC Countries (To be mentioned).
f.	Country of Manufacture / Assembly	USA, UK, Canada, Australia, Japan, EU Countries, Turkey, China, India, Taiwan, Singapore, South Korea and GCC Countries, (To be mentioned).
g.	Type / Configuration	All-in-one compact digital starter and alternator test bench with integrated drive motor, electronic load bank, Digital screen, and computerized control system.
h.	Rated Power of Drive Motor	As per OEM standard. Details to be mentioned.
i.	Input Power Supply	415V ($\pm 10\%$) AC, 3-Phase, 50 Hz (Bangladesh Standard).
j.	Speed Range	As per OEM standard. Details to be mentioned.

k.	Test Voltage Range	12 V & 24 V alternators and starters with automatic voltage recognition and selection.
l.	Generator Load Test Option	Provision shall be made for an external or integrated resistive/reactive load bank with 0–500 kW variable load capacity for functional testing of generators of different ratings. The generator load testing system may be offered as a separate integrated unit, fully compatible with the test bench control and measurement system.
m.	Test Load Capacity (Alternator)	A variable electronic load suitable for alternator testing up to 10 kW or as per OEM standard shall be provided. The exact alternator load capacity shall be specified by the manufacturer.
n.	Measurement Parameters	Output voltage, current, frequency, regulation voltage, ripple voltage, field current (DFM), temperature, torque, speed, and efficiency.
o.	Accuracy	As per OEM standard. Details to be mentioned.
p.	Protocols Supported	Full support for commercially available alternator communication standards. Details to be mentioned.
q.	Oscilloscope / Waveform Analysis	Built-in digital oscilloscope for manual or automatic check of diodes, stators, and voltage waveforms with curve display on screen.
r.	Database / Software	Integrated software with pre-loaded database.
s.	Automatic & Manual Test Modes	Dual mode operation with standard and performance test sequences as well as manual control for custom testing.
t.	Starter Testing	Complete starter motor electrical test including free rotation run, voltage drop test, and curve recording.
u.	Display / User Interface	As per OEM standard. Details to be mentioned.
v.	Computer System	As per OEM standard. Details to be mentioned.
w.	Communication Ports	As per OEM standard. Details to be mentioned.
x.	Printing / Data Export	As per OEM standard. Details to be mentioned.
y.	Safety Features	OEM recommended standard safety features are to be provided including but not limited to Emergency stop, over-current / over-voltage protection, short-circuit and reverse-polarity protection, guarded rotating parts, thermal shutdown.
z.	Noise Level	As per OEM standard. Details to be mentioned.
aa.	Compliance Standards	CE, ISO , IEC, IEC or equivalent international standards.
bb.	Calibration	Factory calibration certificate traceable to ISO or equivalent standards.
cc.	Accessories (Std.)	OEM recommended standard accessories are to be provided for immediate operation including Alternator mounting clamps, starter adapters, drive belts, cables, USB flash drive with software / database / manuals, and calibration certificate.
dd.	Training & Support	OEM / authorized representative to provide installation, commissioning and operator training at dockyard site.
ee.	Documentation	Complete set of Operating Manual, Maintenance Manual, Wiring Diagram, Software User Guide, and Calibration Certificate (in English).

ff.	Packaging & Delivery	OEM standard export-grade seaworthy packing; delivery to Bangladesh Coast Guard Dockyard, Gazaria, Munshiganj.
Note: If any specific dimension of the item is not commercially available, then the nearby commercially available specification/ dimension can be offered.		

16. TECHNICAL SPECIFICATION OF PORTABLE AC MOTOR STARTER, 380-440V AC, 3PH, 50/60 HZ, 30 KW



Picture of Portable Ac Motor Starter, 380-440V AC, 3PH, 50/60 HZ, 30 KW
(Only for information purpose and may differ from actual products)

Ser	Technical Parameter	Description
a.	Brand and Model	Any international recognized brand and latest model (To be mentioned).
b.	Type	To be mentioned
c.	Purpose	It will be used to safely start and stop, control, and protect an AC motor by controlling the starting current during start-up. It also provides overload and short circuits protections.
d.	Quantity	01 (One) complete system.
e.	Year of Manufacture	2024 or later.
f.	Country of Origin	USA, UK, Canada, Australia, Japan, EU Countries, Turkey, Singapore, South Korea and GCC Countries (To be mentioned).
g.	Manufacturing Country	USA, UK, Canada, Australia, Japan, EU Countries Turkey, China, Taiwan, Singapore, South Korea and GCC Countries, (To be mentioned).
h.	Dimension	To be mentioned (Compact and smaller size is preferable)
i.	Weight	To be mentioned. Compact and portable preferred.
j.	Capacity in HP	Not less than 40 HP or better
k.	Current capacity	Min 30 KW or better
l.	Control Mode	To be mentioned
m.	Start Mode	To be mentioned

Ser	Technical Parameter	Description
n.	Stop Mode	Normal stop (OFF switch), Emergency stop, Under-voltage trip, Overload trip.
o.	Safety Features	1. Overload relay. 2. Short circuit protection (MCB/MCCB) 3. Under-voltage protection. 4. Emergency stop button. 5. Thermal protection.
p.	IP rating	As per international standard. Details to be mentioned.
q.	Electrical supply	415 V ($\pm 10\%$) AC, 50/60 Hz, 3 Phase
r.	Packaging	OEM recommended fully sealed box available with accessories.
Note: If any specific dimension of the item is not commercially available, then the nearby commercially available specification/ dimension can be offered.		