

**Bangladesh Coast Guard Force
Agargaon Administrative Area
Block No-E, Plot No-12/B
Sher-e-Bangla Nagar, Dhaka-1207**

**TENDER DOCUMENT
FOR THE PROCUREMENT OF
GOODS (NATIONAL)**

OPEN TENDER

SUPPLY OF PAINT FOR BANGLADESH COAST GUARD FORCE

**Invitation for Tender No: 44.08.2680.060.20.005.18. 1436 Date: 21 October 2018.
Issued on: 23 October 2018
Tender Package No: GR LOG (TS- 09)**

Section 2. Tender Data Sheet

<i>Instructions for completing the Tender Data Sheet are provided, as needed, in the notes in italics mentioned for the relevant ITT clauses.</i>	
ITT Clause	Amendments of, and Supplements to, Clauses in the Instruction to Tenderer
A. General	
ITT 1.1	The Purchaser is Director Logistics, Bangladesh Coast Guard Force. Address: Agargaon, Admin Area, Sher-E-Bangla Nagar, Dhaka-1207.
	Title of the works: Tender Ref : 44.08.2680.060.20.005.18.1436 Date. 21 October 2018. Lot-1: Supply of Paint for Bangladesh Coast Guard Force.
ITT 3.1	The source of public fund is: GOB
ITT 3.3	The name of the Development Partner is: NA
ITT 5.1	Tenderers from the following countries are not eligible: NA .
ITT 6.1	Goods and Related Services from the following counties are not eligible: NA .
B. Tender Document	
ITT 8.2	The following are the offices of the Procuring Entity or authorised agents for the purpose of providing the Tender Document: Address: Bangladesh Coast Guard Force Headquarters, Agargaon Admin Area, Sher-E-Bangla Nagar, Dhaka-1207. Telephone No : 02-8181873 Fax number: 02 - 9140092 e-mail address: log_dte@coastguard.gov.bd
ITT 9.1	For clarification of tender purposes only, the Purchaser's address is: Attention: Deputy Director (Technical Stores) Address: Bangladesh Coast Guard Force Headquarters, Agargaon Admin Area, Sher-E-Bangla Nagar, Dhaka-1207. Telephone No : 02-8181873 Fax number: 02 - 9140092 Electronic mail address: log_dte@coastguard.gov.bd
ITT 10.1	The Pre-tender meeting shall not be held
C. Qualification Criteria	
ITT 14.1(a)	The Minimum of years of general experience of the Tenderer in the supply of Goods and related services as Supplier shall be 03 years.
ITT 14.1(b)	The minimum specific experience as Supplier in supply of similar Goods of at least 03 number contracts successfully completed within the last 03 years with Bangladesh Navy, BIWTC & Khulna Shipyard each with a value of at least Tk . 50,00,000.00 (Taka Fifty Lacs only) .

ITT 14.1 (c)	The minimum production capacity of Goods is 1,00,000.00 Ltr/Year.
ITT 15.1 (a)	The minimum amount of liquid asset i.e working capital or credit line(s) of the Tenderer shall be Tk . 1,00,00,000.00 (Taka One Crore only) .
D. Preparation of Tenderer	
ITT 21.1	The Tender shall submit with the its Tender the following additional documents: a. Supplier's invoice showing Goods' description, quantity, unit rates, total amount; b. Tender Submission sheet. c. Price schedule. d. Tender Security. e. The completed Specifications Submission and Compliance Sheet. f. Attested copy of valid trade license. g. Original catalogue to be provided with the offer. h. Attested copy of latest income tax certificate. j. Attested copy of latest VAT registration certificate. k. Manufacturer authorization letter. l. Warranty Certificate. m. Bank solvency.
ITT 23.1	Alternative Tenders will not be permitted.
ITT 24.3	Tenders are being invited for single lot.
ITT 24.9	The price for the following particular item must be quoted by the Tenderers: None
ITT 28.1(f)	Manufacturer's Authorization is required.
ITT 29.1	The Tender validity period shall be 120 days .
ITT 31.1	The amount of the Tender Security shall be Tk. 2,00,000.00 (Taka Two Lacs Only) In favour of "AYON O BEYON KORMOKORTA, COAST GUARD SADAR DAPTOR" and shall be paid by Pay Order (আয়ন ও ব্যয়ন কর্মকর্তা, কোস্ট গার্ড সদর দপ্তর)
ITT 36.1	In addition to the original of the Tender shall be submitted 01 copy clearly marked in "ORIGINAL". and other 01 copy clearly marked in "COPY"
E. Submission of Tender	
ITT 37.2 (e)	The inner and outer envelopes shall bear the following additional identification marks: To bear the name of the Tender Name To bear the name and address of the Tenderer

ITT 38.1	<p>For <u>tender submission purposes</u> only, the Purchaser's address is: Attention: Director Logistics Address: Bangladesh Coast Guard Force Headquarters, Agargaon Admin Area, Sher-E-Bangla Nagar, Dhaka-1207. The deadline for submission of Tenders 1200 hrs On 12 November 2018.</p>
ITT 38.3	<p>For <u>Tender submission purposes</u> only, the Procuring Entity's address is: Logistic Directorate, Bangladesh Coast Guard Address: Bangladesh Coast Guard Headquarters, Agargaon Administrative Area, Block-E, Plot-12/B, Sher-E-Bangla Nagar, Dhaka-1207</p>
<p>F. Opening and Evaluation of Tenders</p>	
ITT 44.1	<p>The Tender opening shall take place at: Address: Office of the Deputy Director (Technical Stores) Bangladesh Coast Guard Force Headquarters, Agargaon Admin Area, Sher-E-Bangla Nagar, Dhaka-1207. On Time & Date: 1230 hrs On 12 November 2018.</p>
<p>G. Award of Contract</p>	
ITT 60.1	<p>The maximum percentage by which quantities per item may be increased or decreased is 20%.</p>
ITT 62.1	<p>The amount of Performance Security shall be ten percent [10%] of the Contract Price. In Favour of "Earnest money fund, Coast guard Sador Daptor".</p>
ITT 62.3	<p>The Security Deposit shall be deducted @ ten (10) percent from the successful Tenderer's payable invoices during Contract implementation, if awarded the Contract.</p>

Section 4. Particular Conditions of Contract

GCC Clause	Amendments of, and Supplements to, Clauses in the General Conditions of Contract
GCC 1.1(n)	The Procuring Entity is Director Logistics, Bangladesh Coast Guard .
GCC 1.1(s)	The site(s)/ point(s) of delivery is/are: Bangladesh Coast Guard, Headquarters, Agargaon Administrative Area, Dhaka-1207
GCC 3.1	For notices , the Procuring Entity's contact details shall be: Attention: Director Logistic . Address: Bangladesh Coast Guard , Headquarters, Agargaon Administrative Area, Dhaka-1207 . Telephone: 8181873 Facsimile number: 9140092 Electronic mail address: log_dte@coastguard.gov.bd
	For notices , the Supplier's contact details shall be: Attention: Address: Telephone: Facsimile number: Electronic mail address:
GCC 7.1(i)	The documents to be furnished by the supplier shall be as follows: (a) Attested copy of Valid trade license (b) Attested copy of Latest income Tax certificate (c) Attested copy of Latest VAT registration certificate (d) Attested copy of enlistment letter (if applicable) (e) Bank solvency (Original/Photocopy Attested) (The minimum amount of liquid asset or working capital or credit facility to be mentioned) (f) Manufacturer authorisation letter/Certificate (g) Current Production Certificate (h) Sole distribution certificate
GCC 8.1	The scope of Supply shall be defined in: " <i>Section" 6 Schedule of Supply"</i>

GCC 30.1	<p>The inspections and tests shall be :</p> <p>Goods: Various types of Paints.</p> <p>Type of test: Physical and Chemical (if needed)</p> <p>Time or milestone: At or after the date of delivery</p> <p>Place: The Inspections and tests shall be conducted at Bangladesh Coast Guard Headquarters, Dhaka-1207.</p> <p>Procedure: Inspections and tests will be done by the authorised inspectors of Bangladesh Coast Guard against the technical specification of the items in the presence of the supplier;</p> <p>The Purchaser's right to inspect, test and where appropriate reject the Goods after delivery, shall in no way be limited or waived by the reason of Goods having previously been inspected, tested or passed by the Purchaser or its representative prior the Goods shipment.</p>
GCC 31.3	<p>The period of validity of the Warranty shall be: 12 months.</p> <p>For purposes of the Warranty, the place of final destination shall be: Bangladesh Coast Guard Headquarters, Dhaka-1207.</p>
GCC 31.7	<p>The Supplier shall correct any defects covered by the Warranty within 2 weeks of being notified by the Procuring Entity of the occurrence of such defects.</p>
GCC 33.1	<p>The amount of Liquidated Damages is 0.5% of the contract value of the undelivered Goods or any part thereof delivered after expiry of the Delivery and Completion Schedule or extended Delivery and Completion Schedule as applicable, per day of delay.</p> <p>The maximum amount of Liquidated Damages for the undelivered Goods or any part thereof is [≤ ten (10)] percent of the final Contract Price of the whole of the Goods and related services.</p>
GCC 42.3(b)	<p>Arbitration shall take place in: Director Logistics, Bangladesh Coast Guard Headquarters, Dhaka-1207.</p>

Section 5. Tender and Contract Forms

Form	Title
Tender Forms	
PG3 – 1	Tender Submission Letter
PG3 – 2	Tenderer Information Sheet
PG3 – 4A	Price Schedule for Goods
PG3 – 4B	Price Schedule for Related Services
PG3 – 5	Specifications Submission and Compliance Sheet
PG3 – 6	Manufacturer's Authorisation Letter
PG3 – 7	Bank Guarantee for Tender Security (Pay Order)
Contract Forms	
PG3 – 9	Notification of Award
PG3 – 10	Contract Agreement
PG3 – 11	Pay order for Performance Security

Forms PG3-1 to PG3-7 comprises part of the Tender and should be completed as stated in ITT Clause 21.

Forms PG3-9 to PG3-11 comprises part of the Contract as stated in GCC Clause 7.

Section 6.**Schedule of Requirements**Invitation for Tender No: **44.08.2680.060.20.005.18.1436**Date : **21 October 2018**

Tender Package No: GR LOG (TS – 09)

Lot No : 01 (One)

A. List of Goods and Delivery Schedule

When completing Form PG-2 the Tenderer shall quote prices and contract delivery dates for each item against each lot and show each Lot separately, as specified in the List of Goods and Delivery Schedule.)

Item No.	Description of Item	Unit of Supply	Quantity of Units required	Point of Delivery	Date Required (in weeks)
1	2	3	4	5	6
Purchaser's Option for delivery terms is from date of contract signature					
Lot-1:	Supply of Paint for Bangladesh Coast Guard Force	As Per Section-7	As Per Section-7	Bangladesh Coast Guard Force Headquarters, Agargaon Admin Area, Sher-E-Bangla Nagar, Dhaka-1207	06 Weeks

B. List of Related Services and Completion Schedule

When completing Form PG - 2 the Tenderer shall quote prices and contract delivery dates for each item against each lot

Item No.	Description of Related Services	Unit of Supply	Quantity of Units Required	Point at which Services are required	Required Completion Date for Services
1	2	3	4	5	6
Purchaser's Option for delivery terms is from date of contract signature					[note 1 (b)]

Note 1: The Purchaser must specify the option from which the completion of services will start:

- (a) from date of notification of contract award, or
- (b) from date of contract signature, or
- (c) from date of opening of letter of credit; or
- (d) from date of confirmation of letter of credit

e.g. In Column 6 if the completion required is 10 weeks from date of Notification of contract award, then type in (a); if the completion required is 10 weeks from opening of letter of credit type in (c), etc. Each item of each lot should have the same completion date and conditions, except in exceptional circumstances.

Note 2: The Purchaser must decide whether there is a separate unit of supply and quantity of units, otherwise may specify ONE (1) in both columns or LUMP SUM in Column 4

Section 7. Technical Specifications of Paints

1. **Purpose.** All paints will be used for Coast Guard ships to their out and inner surface to protect the ships from sea water and environmental damage.
2. **Brand.** To be mentioned
3. **Country of Origin.** To be mentioned
4. **Manufacturing Country.** To be mentioned
5. **Year of Manufacturer.** 2018 or later
6. **Name & Address of local supplier.** To be mentioned.
7. **Name & Address of Manufacturer.** To be mentioned.
8. **Ambient Conditions.** The quoted paints are to be suitable for use under the following ambient conditions:
 - a. Air Temperature : 5° - 45° C
 - b. Water Temperature : 5° - 32° C
 - c. Humidity : Up to 95%
 - d. Muddy and oily river/sea water.
9. **Quantity.** As described below:

S. No	Description of Paints	Deno	Qty
1.	Marine White	Litter	5000
2.	Marine Black	Litter	120
3.	Marine Light Grey	Litter	2190
4.	GP Thiner	Litter	3800
5.	Marine Enamel Green	Litter	1800
6.	Red Signal	Litter	650
7.	Red Oxide	Litter	2200
8.	Marine Golden Yellow	Litter	650
9.	Marine Navy Blue	Litter	640
10.	Distemper White	Litter	420
11.	Black Japan	Litter	1500
12.	Silver	Litter	190
13.	Marine Aluminum	Litter	185
14.	Dark Grey	Litter	1540
15.	Yellow Cromide	Litter	360
16.	Epoxy Curing Agent	Litter	25
17.	Epoxy Paint Red Oxide	Litter	30
18.	Epoxy Thiner	Litter	30
19.	Cream paint Aqiabel Light	Litter	600
20.	Paint blue resin non-skid	Litter	560
21.	Thinner T-6	Litter	615
22.	GP Thiner 602/P	Litter	1725
23.	Dark Grey (Anti Skid)	Litter	600
24.	Paint Boat Topping Black	Litter	550
25.	Dark Grey (Blige Area)	Litter	525
26.	Marine Blue	Litter	60
27.	Paint Remover	Litter	5

10. **Technical Specification.** Technical specification of Paint will be as follows:

a. **Marine White**

Ser	Parameter	Specification
1	Component	Single Pack
2	Viscosity at 30°C	(150 to 160) sec (BSB,Ford Cup, Sheen, UK)
3	Whiteness Index	84 ± 1
4	Reflectance (RFL) Value	DE=0.8 max
5	Specific Gravity at 30°C	1.03 ± 0.01
6	Solid Content	(56± 1)%
7	Contrast ratio in Terms of Opacity	92 ± 1(K 7 BC, Sheen UK)
8	Particle Size Through Hegman Grind Gauge	7 min HG
9	Lead (Pb) Content	Less than 60 PPM
10	VOC	(425-450) gm/L
11	Recommended Thinning Ratio	(12-15)%
12	Covering Capacity	(175-200) Sft/L/Coat
13	Surface Dry	(2-3) Hrs at NTP
14	Tack Free Time	(4-5) Hrs at NTP
15	Hard Dry	(12-15) Hrs at NTP
16	Recoat- ability	Overnight or hard dry
17	Recommended Dry Film Thickness(DFT)	(25-30) Micron/Coat
18	Thinner	T-6/T-1
19	Heat Resistance	70-80° C dry heat
20	Flash Point	Above 70° F
21	Self Life	18 months

b. **Marine Black**

Ser	Parameter	Mentioned
1	Pigment	Organic pigment of good light fastness.
2	Binder	Modified alkyd resin.
3	Solvent	Aliphatic /Aromatic hydrocarbons.
4	Solid Content	(51+1)%
5	RAL	9005(Jet Black)
6	Particle size through Hegman Grind Gauge	7 min G/G
7	Viscosity	150 - 160 sec. in ford cup-3 at 30'C.
8	Sp. Gravity	above 0.93
9	Lead (Pb) Content	Less than 60PPM
10	VOC Content	525-550 gr.,IL
11	Heat Resistance	70-80°C dry heat
12	Flash Point	Above 70°F
13	Contrast Ratio in terms of opacity	97+1
14	Reflectance (RFL) Value	1.5 max.
15	Recoat-ability	Over niTfit or hard dry
16	Finish	Glossy
17	Colour	Black
18	Thinner	Thinner-01
19	Self Life	18 months in sealed container

c. **Marine Light Gray**

Ser	Parameter	Specification
1	Component	Single Pack
2	Viscosity at 30°C	150 to 160 sec
3	RAL	7001 (Silver Grey)
4	Reflectance (RFL) Value	DE=0.8 max
5	Specific Gravity at 30°C	0.98 ± 0.02
6	Solid Content	(54± 1)%
7	Contrast ratio in Terms of Opacity	92 ± 1(K-7 BC, Sheen UK)
8	Particle Size Through Hegman Grind Gauge	7 min
9	VOC	(425-450) gm/L
10	Lead (Pb) Content	Less than 20 PPM
11	Finish	Glossy
12	Recommended Thinning Ratio	(12-15)%
13	Covering Capacity	(175-200) Sft/L/Coat
14	Surface Dry	(2-3) Hrs at NTP
15	Tack Free Time	(4-5) Hrs at NTP
16	Hard Dry	(12-15) Hrs at NTP
17	Recoat- ability	Overnight or hard dry
18	Recommended Dry Film Thickness(DFT)	(25-30) Micron/Coat
19	Thinner	T-6/ T-1
20	Heat Resistance	Up To 70-80° C dry heat
21	Flash Point	Above 70° F
22	Self Life	18 months

d. **GP Thinner**

Ser	Parameter	Specification
1	Company Name	Mineral Turpentine (MTT)
2	Component	One Pack
3	Chemical Composition	Mixture of Hydrocarbon Solvent
4	Appearance	Colorless clear liquid
5	VOC (Volatile Organic Compound) Content	750-800 g/L
6	Aromatic Content %	20 ± 3
7	Specific Gravity/Density	0.79-0.81 Kg/ltr
8	Viscosity at 30C	11 ± 1 Sec
9	Lead Content	Nil
10	Flash Point	(37.50 ± 2.5)°C
11	Distillation Range	(152 to 205)°C
12	Residue on Evaporation	5 mg/100ml
13	GC Purity	~ 99.5%
14	Packs available	0.5 Ltr, 1.0 Ltr, 4.0 Ltr & 180.0 Ltr
15	Self Life	18 months

e. **Marine Enamel Green**

Ser	Parameter	Specification
1	Component	Single Pack
2	Viscosity at 30°C	150 to 160 sec
3	RAL	6024 (Traffic Green)
4	Reflectance (RFL) Value	DE=0.8 max
5	Specific Gravity at 30°C	0.93 ± 0.01
6	Contrast ratio in Terms of Opacity	89 ± 1(K-7 BC, Sheen UK)
7	Particle Size	7 min HG
8	VOC	(425-450) gm/L
9	Solid Content	(52± 1)%
10	Lead Content	Less than 60 PPM
11	Finish	Glossy
12	Recommended Thinning Ratio	(12-15)%
13	Covering Capacity	(175-200) Sft/L/Coat
14	Surface Dry	(2-3) Hrs at NTP
15	Tack Free Time	(4-5) Hrs at NTP
16	Hard Dry	(12-15) Hrs at NTP
17	Recoat- ability	Overnight or hard dry
18	Recommended Dry Film Thickness(DFT)	(25-30) Micron/Coat
19	Thinner	T-6
20	Heat Resistance	70-80° C dry heat
21	Flash Point	Above 70° F
22	Self Life	18 months

f. **Red Signal**

Ser	Parameter	Specification
1	Component	Single Pack
2	Viscosity at 30°C	150 to 160 sec
3	Reflectance (RFL) Value	DE=1.0 max
4	Specific Gravity at 30°C	0.93 ± 0.01
5	Solid Content	(51± 1)%
6	Contrast ratio in Terms of Opacity	67 ± 1(K-7 BC, Sheen UK)
7	Particle Size Through Hegman Grind Gauge	7 min HG
8	Lead (Pb) Content	Less than 60 PPM
9	VOC	(425-450) gm/L
10	Finish	Glossy
11	Recommended Thinning Ratio	(12-15)%
12	Covering Capacity	(160-185) Sft/L/Coat
13	Surface Dry	(2-3) Hrs at NTP
14	Tack Free Time	(4-5) Hrs at NTP
15	Hard Dry	(12-15) Hrs at NTP
16	Recoat- ability	Overnight or hard dry
17	Recommended Dry Film Thickness(DFT)	(25-30) Micron/Coat
18	Thinner	T-6/T-1
19	Heat Resistance	70-80° C dry heat
20	Flash Point	Above 70° F
21	Self Life	18 months

g. Red Oxide

Ser	Parameter	Specification
1	Component	Single Pack
2	Viscosity at 30°C	150 to 160 sec
3	Specific Gravity at 30°C	1.39 ± 0.02
4	Reflectance (RFL) Value	DE=1.5 max
5	Solid Content	(78± 2)%
6	Contrast ratio in Terms of Opacity	99 ± 1(K-7 BC, Sheen UK)
7	Particle Size Through Hegman Grind Gauge	4 min HG
8	Lead (Pb) Content	Less than 60 PPM
9	VOC	(275-325) gm/L
10	Finish	Matt
11	Recommended Thinning Ratio	(10-12)%
12	Covering Capacity	(140-180) Sft/L/Coat
13	Surface Dry	30 Min at NTP
14	Tack Free Time	(1-1.5) Hrs at NTP
15	Hard Dry	24 Hrs at NTP
16	Recoat- ability	Overnight or hard dry
17	Recommended Dry Film Thickness(DFT)	(30-35) Micron/Coat
18	Thinner	T-6/T-1
19	Heat Resistance	Up To 70-80° C dry heat
20	Flash Point	Above 70° F
21	Self Life	18 months

h. Marine Golden Yellow

Ser	Parameter	Specification
1	Component	Single Pack
2	Viscosity at 30°C	150 to 160 sec
3	Reflectance (RFL) Value	DE=1.0 max
4	Specific Gravity at 30°C	0.94 ± 0.01
5	Solid Content	(45± 1)%
6	Contrast ratio in Terms of Opacity	65 ± 1(K-7 BC, Sheen UK)
7	Particle Size Through Hegman Grind Gauge	7 min
8	VOC	(475-525) gm/L
9	Lead (Pb) Content	Less than 60 PPM
10	Finish	Glossy
11	Recommended Thinning Ratio	(12-15)%
12	Covering Capacity	(175-200) Sft/L/Coat
13	Surface Dry	(2-3) Hrs at NTP
14	Tack Free Time	(4-5) Hrs at NTP
15	Hard Dry	(12-15) Hrs at NTP
16	Recoat- ability	Overnight or hard dry
17	Recommended Dry Film Thickness(DFT)	(25-30) Micron/Coat
18	Thinner	T-6/ T-1
19	Heat Resistance	Up To 70-80° C dry heat
20	Flash Point	Above 70° F
21	Self Life	18 months

j. **Marine Navy Blue**

Ser	Parameter	Specification
1	Component	Single Pack
2	Viscosity at 30°C	150 to 160 sec
3	Reflectance (RFL) Value	DE=0.8 max
4	Specific Gravity at 30°C	0.92 ± 0.01
5	Solid Content	(51± 1)%
6	Contrast ratio in Terms of Opacity	93 ± 1(K-7 BC, Sheen UK)
7	Particle Size Through Hegman Grind Gauge	7 min
8	Lead (Pb) Content	Less than 60 PPM
9	VOC	(425-475) gm/L
10	Finish	Glossy
11	Recommended Thinning Ratio	(12-15)%
12	Covering Capacity	(175-200) Sft/L/Coat
13	Surface Dry	(2-3) Hrs at NTP
14	Tack Free Time	(4-5) Hrs at NTP
15	Hard Dry	(12-15) Hrs at NTP
16	Recoat- ability	Overnight or hard dry
17	Recommended Dry Film Thickness(DFT)	(25-30) Micron/Coat
18	Thinner	T-6/ T-1
19	Heat Resistance	Up To 70-80° C dry heat
20	Flash Point	Above 70° F
21	Self Life	18 months

k. **Distemper White**

Ser	Parameter	Specification
1	Description	This is based on high quality pigments and emulsion.
2	Binder	Vinyl acetate /acrylic copolymer emulsion and cellulose.
3	Pigment	Alkali resistance pigment/mineral extenders.
4	Additives	Fungicide/bactericide and alcohol.
5	Thinner/cleaner	Water.
6	Finish	Matt.
7	Viscosity	Paste form.
8	Storage Life	12 months in a sealed container.
9	Coverage	The coverage achieved will depend on the texture and suction of the substrate. Normally, it will between 125-130 sft. per liter per coat.
10	Self Life	12 months

I. **Black Japan**

Ser	Parameter	Specification
1	Component	Single Pack
2	Viscosity at 30°C	110 to 120 sec
3	Reflectance (RFL) Value	DE=1.5 max
4	Specific Gravity at 30°C	0.89 ± 0.02
5	Solid Content	(58± 2)%
6	Contrast ratio in Terms of Opacity	99 ± 1(K-7 BC, Sheen UK)
7	Particle Size Through Hegman Grind Gauge	4 min HG
8	Lead (Pb) Content	Less than 60 PPM
9	VOC	(375-400) gm/L
10	Finish	Glossy
11	Recommended Thinning Ratio	(10-15)%
12	Covering Capacity	(100-120) Sft/L/Coat
13	Surface Dry	30 Min at NTP
14	Tack Free Time	(1-2) Hrs at NTP
15	Hard Dry	24 Hrs at NTP
16	Recoat- ability	Overnight or hard dry
17	Recommended Dry Film Thickness(DFT)	(25-30) Micron/Coat
18	Thinner	T-6/ T-1
19	Heat Resistance	Up To 70-80° C dry heat
20	Flash Point	Above 70° F
21	Self Life	18 months

m. **Paint Silver**

Ser	Parameter	Mentioned
1	Pigment	Aluminium flake.
2	Binder	Olea-resinous varnish.
3	Solvent	Aliphatic /Aromatic hydrocarbons.
4	Solid Content	(47+1)%
5	Particle size through Hegman Grind Gauge	7 min G/G
6	Viscosity	20 sec. in ford cup-3 at 30oC.
7	Sp. Gravity	0.94 + 0.02
8	Lead (Pb) Content	Less than 60PPM
9	VOC Content	475-525 gmlL
10	Heat Resistance	Up to 80°C dry heat
11	Flash Point	Below 70°F
12	Coverage Capacity	120- 1 50Sft/L/Coat
13	Contrast Ratio in terms of opacity	97+l
14	Recoat-ability	24 Hours minimum
15	Reflectance (RFL) Value	0.8 max.
16	Finish	Glossy
17	Self Life	18 months

n. **Marine Aluminium**

Ser	Parameter	Mentioned
1	Solid Content	55+/-1%
2	Acid Value (Phthalc Content)	MAX 12 mg
3	Lead (Pb) Content	Minimum (to be mentioned)
4	VOC (Volatile Organic Compound) Content	400-450 gm
5	Contrast Ratio in terms of Opacity	97+/-1/K-7
6	Surface Drying Time	2-3 hrs at NTP
7	Tack Free Time	2-3 hrs
8	Hard Dry time	18-24 hrs
9	Particle Size Through Herman Grind Gauge	7 min G/G
10	Specific Gravity	0.94+/-0.02
11	Viscosity	20 Sec
12	Reflectance (RFL) Value (oe Value)	0.8 Max
13	Self Life	18 months

p. **Dark Gray**

Ser	Parameter	Specification
1	Component	Single Pack
2	Viscosity at 30°C	150 to 160 sec
3	RAL	7011 (Iron Grey)
4	Reflectance (RFL) Value	DE=0.80 max
5	Specific Gravity at 30°C	0.93 ± 0.01
6	Solid Content	(52± 1)%
7	Contrast ratio in Terms of Opacity	94 ± 1(K-7 BC, Sheen UK)
8	Particle Size Through Hegman Grind Gauge	7 min HG
9	Lead (Pb) Content	Less than 60 PPM
10	VOCp	(450-475) gm/L
11	Finish	Glossy
12	Recommended Thinning Ratio	(12-15)%
13	Covering Capacity	(175-200) Sft/L/Coat
14	Surface Dry	(2-3) Hrs at NTP
15	Tack Free Time	(4-5) Hrs at NTP
16	Hard Dry	(12-15) Hrs at NTP
17	Recoat- ability	Overnight or hard dry
18	Recommended Dry Film Thickness(DFT)	(25-30) Micron/Coat
19	Thinner	T-6
20	Heat Resistance	Up To 70-80° C dry heat
21	Flash Point	Above 70° F
22	Self Life	18 months

q. **Yellow Cromide**

Ser	Parameter	Specification
1	Component	Single Pack
2	Viscosity at 30°C	80 to 90 sec
3	Reflectance (RFL) Value	DE=1.5 max
4	Specific Gravity at 30°C	1.39 ± 0.02
5	Solid Content	(68± 2)%
6	Contrast ratio in Terms of Opacity	55 ± 2(K-7 BC, Sheen UK)
7	Particle Size Through Hegman Grind Gauge	4 min HG
8	Lead (Pb) Content	Less than 60 PPM
9	VOC	(425-475) gm/L
10	Finish	Matt
11	Recommended Thinning Ratio	(8-10)%
12	Covering Capacity	(120-130) Sft/L/Coat
13	Surface Dry	(1-2) Hrs at NTP
14	Tack Free Time	(3-4) Hrs at NTP
15	Hard Dry	(15-18) Hrs at NTP
16	Recoat- ability	Overnight or hard dry
17	Recommended Dry Film Thickness(DFT)	(30-40) Micron/Coat
18	Thinner	T-6/T-1
19	Heat Resistance	Up To 80° C dry heat
20	Flash Point	Above 70° F
21	Self Life	18 months

r. **Epoxy Curing Agent**

Ser	Parameter	Specification
1	Composition	Epoxy & polyamide resins, high quality suitable aromatic solvent.
2	Type	Hardener
3	Color	Clear
4	Finish	Glossy
5	Mixing Ratio	By Wight
6	Application	Brush, Roller or Spray
7	Pot Life	5-6 hours
8	Packages	4 Litre with a set of 3 cans
9	Shelf Life	12 months
10	Heat Resistance	Up to 150° C dry heat
11	Self Life	18 months

s. **Epoxy Paint Red Oxide**

Ser	Parameter	Mentioned
1	Pigment	Iron oxide pigment & mineral extenders.
2	Binder	Epoxy / Polyamide
3	Solvent	Aromatic hydrocarbe+s, Ketones & Alcohol.
	Solid Volume %	51
4	Solid Content %	72
5	PVC %	42
7	Destiny (mixed paint)	1.55 kflitre.
8	Viscosity (mixed paint)	75-85 sec. in Ford Cup-4 (ASTM D1200) at 30oC.
9	Colour	Red.
10	Finish	Eggshell.
11	Flash Point (Abel Closed)	Base 24°C Curing Agent 26°C.
12	Pot Life (20-35°C)	5-10 hours
13	Pack Size	4 Litre Sealed Tin.
14	Shelf Life	18 months
15	Thinner	Thinner-01

t. **Epoxy Thinner**

Ser	Parameter	Mentioned
1	Component	One Pack
2	Chemical Composition	Mixture of Aromatic Hydrocarbons, Ketone and alcohol
3	Appearance	Visual method, Clear liquid, free from sediments.
4	Viscosity	10 ± 1 Sec (Ford Cup – 4)
5	Flash Point	< 70° F.
6	Density	0.84
7	Self Life	18 months

u. **Cream Paint Aquibel Light**

Ser	Parameter	Mentioned
1	Pigment	Organic and Inorganic pigment of good light fastness.
2	Binder	Modified alkyd resin
3	Solvent	Alphatic/ Aromatic hydrocarbons
4	Solid Volume %	50±2% (Depending on the colour)
5	Thinner/ Cleaner	Thinner T-1
7	Viscosity (at 30°)	130 ± 10 sec. (For Cup -3)
8	Sp. Gravity	0.91- 1.14 (Depending on the colour)
9	Flash Point (Abel Closed)	Above 30°C
10	Shelf Life	12 months
11	Colour	Standard colours as per Colour Card
12	Finish	Glossy
13	Standard	Complies to BSTI

v. **Paint Blue Resin Non-skid**

Ser	Parameter	Mentioned
1	Solid Content	52+/-1%
2	Acid Value (Phthalc Content)	MAX 12 mg
3	Lead (Pb) Content	Minimum (to be mentioned)
4	VOC (Volatile Organic Compound) Content	400-450 gm
5	Contrast Ratio in terms of Opacity	93+/-1/K-7
6	Surface Drying Time	2-3 hrs NTP
7	Tack Free Time	4-5 hrs NTP
8	Hard Dry time	12-15 hrs
9	Particle Size Through Herman Grind Gauge	7 min G/G
10	Specific Gravity	0.92+/-0.01
11	Viscosity	150-160 Sec
12	Reflectance (RFL) Value (oe Value)	0.8 Max
13	Self Life	18 months

w. **Thinner T-6**

Ser	Parameter	Specification
1	Company Name	Mineral Turpentine (MTT)
2	Component	One Pack
3	Chemical Composition	Mixture of Hydrocarbon Solvent
4	Appearance	Colorless clear liquid
5	VOC (Volatile Organic Compound) Content	750-800 g/L
6	Aromatic Content %	20 ± 3
7	Specific Gravity/Density	0.79-0.81 Kg/ltr
8	Viscosity at 30C	11 ± 1 Sec
9	Lead Content	Nil
10	Flash Point	(37.50 ± 2.5)°C
11	Distillation Range	(152 to 205)°C
12	Residue on Evaporation	5 mg/100ml
13	GC Purity	~ 99.5%
14	Packs available	0.5 Ltr, 1.0 Ltr, 4.0 Ltr & 180.0 Ltr
15	Self Life	18 months

x. **GP Thinner 602/P**

Ser	Parameter	Mentioned
1	Solid Content	Mineral Turpentine (MTT)
2	Acid Value (Phthalc Content)	Colorless clear liquid
3	Lead (Pb) Content	Mixture of Hydrocarbon Solvent
4	VOC (Volatile Organic Compound) Content	11.25+/-1.25
5	Contrast Ratio in terms of Opacity	750-800 g/L
6	Surface Drying Time	(37.50+/-2.5) ^o C
7	Tack Free Time	(152 to 205) ^o C
8	Hard Dry time	5mg/100 ml
9	Particle Size Through Herman Grind Gauge	08.kg/ ltr
10	Specific Gravity	10 to 30 ^o F
11	Viscosity	99.50%
12	Reflectance (RFL) Value (oe Value)	Nil
13	Self Life	18 months

y. **Dark Gray (Anti-Skid)**

Ser	Parameter	Mentioned
1	Solid Content	50+/-1%
2	Acid Value (Phthalc Content)	MAX 12 mg
3	Lead (Pb) Content	Not more than 0.1%
4	VOC (Volatile Organic Compound) Content	300-350 gm
5	Contrast Ratio in terms of Opacity	94+/-1/K-7
6	Surface Drying Time	2-4hrs at NTP
7	Tack Free Time	4-5 hrs
8	Hard Dry time	12-15 hrs
9	Particle Size Through Herman	7 min G/G
10	Specific Gravity	0.96+/-0.01
11	Viscosity	150-160ec
12	Reflectance (RFL) Value (oe Value)	0.8 Max
13	Self Life	18 months

z. Boat Topping Black

Ser	Parameter	Specification
1	Component	Single Pack
2	Viscosity at 30°C	140 to 150 sec
3	Reflectance (RFL) Value	DE=1.5 max
4	Specific Gravity at 30°C	1.20 ± 0.02
5	Solid Content	(67± 2)%
6	Contrast ratio in Terms of Opacity	100 ± 1(K-7 BC, Sheen UK)
7	Particle Size	5 min Hegman Grind
8	Lead (Pb) Content	Less than 60 PPM
9	VOC	(375-400) gm/L
10	Finish	Semi Glossy
11	Recommended Thinning Ratio	(8-12)%
12	Covering Capacity	(100-120) Sft/L/Coat
13	Surface Dry	(1-2) Hrs at NTP
14	Tack Free Time	(3-4) Hrs at NTP
15	Hard Dry	(12-15) Hrs at NTP
16	Recoat- ability	Overnight or hard dry
17	Recommended Dry Film Thickness(DFT)	(25-30) Micron/Coat
18	Thinner	T-6/T-1
19	Heat Resistance	70-80° C dry heat
20	Flash Point	Above 70° F
21	Self Life	18 months

aa. Dark Gray (Bilge Area)

Ser	Parameter	Mentioned
1	Pigment	Organic pigment of good light fastness.
2	Binder	Modified alkyd resin.
3	Solvent	Aliphatic /Aromatic hydrocarbon.
4	Solid Content	52+ 1%
5	Particle size through Hegman Grind Gauge	7 min G/G
6	Viscosity	150 - 160 sec. in ford cuP-3 at 30oC.
7	RAL	711 I(Iron Grey)
8	Sp. Gravity	(0.97 ± 0.02)
9	Lead (Pb) Content	Less than 60PPM
10	VOC Content	450-475 gmL
11	Contrast Ratio in terms of opacity	94 ± 1
12	Heat Resistance	70-80°C dry heat
13	Flash Point	above 70°F
14	Finish	Glossy
15	Colour	Dark Gray
16	Reflectance (RFL) Value	0.8 max.
17	Thinner	T-1
18	Self Life	18 months

ab. **Paint Marine Blue**

Ser	Parameter	Specification
1	Component	Single Pack
2	Viscosity at 30°C	150 to 160 sec
3	Reflectance (RFL) Value	DE=0.8 max
4	Specific Gravity at 30°C	0.92 ± 0.01
5	Solid Content	(51± 1)%
6	Contrast ratio in Terms of Opacity	93 ± 1(K-7 BC, Sheen UK)
7	Particle Size Through Hegman Grind Gauge	7 min
8	Lead (Pb) Content	Less than 60 PPM
9	VOC	(425-475) gm/L
10	Finish	Glossy
11	Recommended Thinning Ratio	(12-15)%
12	Covering Capacity	(175-200) Sft/L/Coat
13	Surface Dry	(2-3) Hrs at NTP
14	Tack Free Time	(4-5) Hrs at NTP
15	Hard Dry	(12-15) Hrs at NTP
16	Recoat- ability	Overnight or hard dry
17	Recommended Dry Film Thickness(DFT)	(25-30) Micron/Coat
18	Thinner	T-6/ T-1
19	Heat Resistance	Up To 70-80° C dry heat
20	Flash Point	Above 70° F
21	Self Life	18 months

ac. **Paint Remover**

Ser	Parameter	Mentioned
1	COLOR	Cloudy
2	APPLICATION	Brush or any other suitable means
3	THEORETICAL COVERAGE	50-60Sft/L/Coat
4	PRACTICAL COVERAGE	40-50Sft/Ltr/Coat
5	THINNER	Not required
6	FLASH POINT	Not applicable
7	PACKAGES	4 Ltr
8	SHELF LIFE	3-5months in sealed container when kept incool
9	Self Life	12 Months

11. **Qualification of the Bidders.** The concerned supplier is expected to have adequate knowledge in understanding all the technical criteria and ability to fulfil those in clear terms given in the indent. The supplier must be in a position to bring all the indented items from authentic source. He should be able to ensure that the source/principal is either to be internationally recognized manufacturer (having distinct website, fax and e-mail address) or agent of the respective manufacturer (having clear existence in the manufacturer website, own fax and e-mail address) or sub- agent of the respective agent (at list having fax and e-mail address).

12. **Delivery Time:** 06 weeks from the date of signing of the Contract.

13. **Validity of Offer.** 120 Days from the date of tender opening.

14. **Terms of Payment.** Payment will be made in local currency on completion of successful completion of the service and accepted by CI&QC of Bangladesh Coast Guard.

15. **Liquidated Damage.**
- a. The liquidated damage shall be one half of one percent **(0.5%)** of the contract value per week of part thereof.
 - b. The maximum amount of liquidated damages shall be **10%** contract value.
16. **Delivery Place.** Paint will be supplied at Coast Guard Headquarters, Dhaka.
17. **Condition for Acceptance of Quotation.** Quotation has to have supporting documents describing Scope, Timeline and delivery plan.
18. **Compliance.** A compliance statement fulfilling all the requirement of the tender is to be submitted for evaluation of the quotations. Stating 'Yes' or 'No' will not suffice and detailed description/ information as required is to be given. An incomplete compliance statement may attribute to cancellation of the offer. If any clause of this specification does not commensurate with the offered Vehicle Tracker, the deviation has to be spelt out clearly.