

**BALMER LAWRIE & CO. LIMITED.**

SBU :GREASES & LUBRICANTS

SURVEY NO. 201/1, SAYALI

**SILVASSA - 396 230**

PHONE NO. 0260 - 3293118 / 3296375

FAX NO. 0260 -2641315

E-mail [srivastava.sk@balmerlawrie.com](mailto:srivastava.sk@balmerlawrie.com)

GLS/TE17/157

Dated : 14/02/18

Due Date : 26/02/18 till 6.00 PM

**PROCUREMENT TENDER ENQUIRY**

Dear Sirs,

M/s \_\_\_\_\_

Please arrange to submit your **sealed bid in envelop** for supply of Concentrated Coolant & BRAKE FLUID DOT 3 as per specifications enclosed in Silvassa.

- **Concentrated Coolant : 1.2 KL**
  - **BRAKE FLUID DOT 3 : 210 Ltr**
- Qty Tolerance is +/- 10%

**Remarks: Complete technical details of offered grade with supporting documentary evidence to be submitted with offer.**

**Terms & Conditions:-**

1. GST Extra as applicable. Please specify clearly along with HSN No.
2. Freight Charges (Rs/Kg) should be clearly mentioned.FOR Basis up to Silvassa Plant.
3. Delivery Time: Immediate within 3 days from the date of our PO.
4. Prices should be firm for the supplies till 31/03/18.
5. Payment: 30 Days from the Date of Receipt of material.
6. Packaging: New & Clean barrels.
7. **Validity:** Your offer should be valid for our acceptance for a minimum period of 30 Days from the due date of tender
8. **Acceptance of Offer:** Balmer Lawrie & Co Ltd reserves the right to reject any/ all
9. Tender at any stage without assigning any reason whatsoever could be cancelled.
10. **Any deviation of above specification will not be entertained.** Successful bidder must ensure the quality and no deviation in the above specification will be accepted. In case of Rejection of any supply, we shall have the option to source from third party debiting the differential amount to your account.
11. **MSDS/PDS/TDS is must along with your sealed price bid.**

Last date for submission **26/02/18 till 6.00 PM** and none of the offer would be considered for evaluation if it reaches after due date and time




You sealed bid should reach to us on below given address and enq. Reference no. should be clearly written on envelop.

Manager-Purchase  
**BALMER LAWRIE & CO. LIMITED.**  
SBU :GREASES & LUBRICANTS  
SURVEY NO. 201/1, SAYALI  
**SILVASSA - 396 230**  
Tel No. 09898896501

Regards with thanks

For Balmer Lawrie & Co. Ltd.

  
SHOBHIT KUMAR SRIVASTAVA  
Manager-Purchase  
09898896501

Note :-

- a) Vendor has to be certified to ISO 9001 latest version
- b) Supplier to conform to all applicable legal (statutory and regulatory) requirements
- c) Supplier to provide test certificate with each lot.
- d) Bids of any tenderer may be rejected if a conflict of interest between the bidders and Company is detected at any stage.

## ANNEXURE I

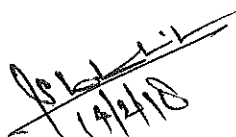
**SPECIFICATION FOR COOLANT CONCENTRATE**

(As per IS : 5759-1994 &amp; JISK 2234-94)

Sr.No.	Tests	Required value
1	Colour	Dark Green
2	Density at 20°C,g/cm <sup>3</sup> , Min	1.112
3	Boiling point °C, Min	155.0
4	Foaming property ml, 30% vol. aqueous solution, Max	4
5	Water content, % by mass, Max	5.0%
6	pH of 30% (v/v), aqueous solution at room temp.	7.0 to 11.0
7	Reserved alkalinity , ml	To Report ( 10 typical )
8	Freezing point of water solution °C, max a) 50% aqueous solution b) 30% aqueous solution	-34.0 max -14.5 max
9 Metal corrosion property (30% Coolant diluted with 70% hard water of 700ppm (as CaCO <sub>3</sub> ) v/v at 88 ± 2°C for 336 ± 2 hrs)		
a) Metal specimen weight change, mg/cm <sup>2</sup> (max) - Aluminium casting - Cast iron - Steel - Brass - Solder - Copper		± 0.30 ± 0.15 ± 0.15 ± 0.15 ± 0.30 ± 0.15
b) Appearance for specimens after test		There shall be no visually noticeable corrosion on the test piece, excluding the part in contact with spacer but change in colour is permissible
c) Foaming during test		No foam flooding out of the cooler.
d) Properties of the coolant after test - pH - Change in pH - Rate of change of reserved alkalinity, percent		6.5 to 11.0 ± 1.0 To be reported ( - 68.33 Typical )
- Liquid phase		No significant change of colour, no significant change of liquid such as separation, generation of gel
- Amount of precipitation % vol.		0.5 max
Hard water stability of 30% v/v with 80 ppm hard water for 7 days		No precipitate

24/7/18

Sr.No.	Tests	Required value
10	Circulating corrosion property 30% Coolant diluted with 70% hard water of 700ppm- ( as CaCO <sub>3</sub> ) v/v at 88 ± 2. for 1000 ± 2 hrs.	
	a) Metal test piece, change of mass mg / cm <sup>2</sup> (max)  - Aluminium casting - Cast iron - Steel - Brass - Solder - Copper	± 0.60 ± 0.30 ± 0.30 ± 0.30 ± 0.60 ± 0.30
	b) Appearance	There shall be no visually noticeable corrosion on the test piece, excluding the part in contacting with spacer but change in colour is permissible
	c) Properties of the solution after test - pH Value - Change of pH value - Rate of change of reserve alkalinity	6.5 to 11.0 ± 1.0 To be reported ( + 4.44 Typical)
	- Liquid Phase	No significant change of colour. No significant change in liquor such as separation, generation of gel
	d) Condition of parts - Sealing part of pump  - Internal surface of pump casting and vanes of pump	No failure during operation. No liquid leakage nor unusual sound No corrosion
11	Corrosion property of cast aluminium at heat transfer surface ((25 % coolant diluted with 75% hard water of 700ppm (as CaCO <sub>3</sub> v/v at 135± 2 deg C and 180 kPa to 200 pressure for 168 ± 2 hrs) Loss in weight mg/cm <sup>2</sup>	1.0 max
12	Compatibility with cooling system Non- metals - Rubber components (50:50 solution in 700 ppm Ca CO <sub>3</sub> hard water ,pH between 6&7,temp 90 +/- 2°C,time 72 hrs,volume change %)	
	a. Appearance of Rubber	No deteriorating effect on Rubber parts shall be observed viz. Disintegration, carbon deposits etc

  
 14/2/18

b. Change of volume swell % 1. Natural Rubber 2. EPDM Rubber 3. Nitrite Rubber 4. Chloroprene Rubber 5. Silicone Rubber 6. Poly acrylic Rubber		Max 5%
13	Effect on painted finishes ( 50% volume solution in 700 ppm Ca CO <sub>3</sub> hard water)	No discoloration, loss of gloss or swelling of film or other visible effects shall

2. Coolant should be free from Amines, Borates, Phosphates and Silicate.

3. Coolant should be tested for hard water compatibility test:

The coolant needs to be tested for hard water compatibility with 800 ppm hard water.

The procedure mentioned below gives the steps to be carried out for testing the coolant for hard water compatibility.

Preparation of Hard Water: Dissolve 1.376 gm of CaSO<sub>4</sub>·2H<sub>2</sub>O in the one distilled water, Test for hardness as per procedure IS:1448 P-98 Appendix-A.

Take about 30 ml of coolant and 70 ml of hard water (800 ppm) in a measuring cylinder. Upon addition of hard water to the coolant there should not be suspension of particles or any precipitation in the coolant even after one week.

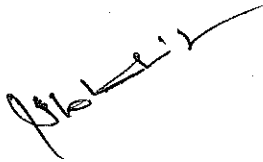
4. The Coolant should be certified and approved by ARAI, Pune as per IS: 5759-1994 specification.

*14/12/18*

## ANNEXURE II

## A) SPECIFICATION OF 210 LTR CAPACITY HMHDPE BARRELS

1. 210 Ltr capacity high molecular weight, high density polyethylene barrel of GREEN/BLUE color body of weight 8.2 kg minimum.
2. To pass following tests : a) Drop Test from a height of 1.2 meters  
b) Hydraulic Pressure Test at 110 kPa  
c) Air leak test at 35 kPa
3. Two closures of 50mm dia with internal thread and matching PP plugs and O-rings.
4. Silk screen printing of "BALMEROL" and "For Industrial Use" on body of barrel as per art-work given by BL
5. **Supplier should put their details on stickers only. No logo on top or body to be printed.**



**BRAKE FLUID DOT 3 should meet below said Specification**

SN	CHARACTERISTICS	REQUIREMENTS
1	Equilibrium reflux boiling point, °C, min.	205
2	Wet equilibrium reflux boiling point, °C, min.	140
3	Kin viscosity, mm <sup>2</sup> /sec At -40 °C, max. At 100 °C, min.	1500 1.5
4	pH value	7.0-11.5
5	Resistance to oxidation, change in mass (mg/cm <sup>2</sup> ) Aluminium Cast Iron Condition of metal strip	0.05 0.3 No visible pitting/etching
6	Effects on Rubber cups at 70 °C for 70 hours Base diameter increase, mm Hardness decrease IRHD, max Appearance	0.17-1.6 15 No disintegration
7	Corrosion Test at 100 °C for 120 hours	Passes
8	Water Tolerance Test	Passes

*Handwritten signature*  
14/4/20