



REQUEST FOR QUOTATION FOR 18 MT LPG ROAD TANKER



SKS LPG, a sister concern of SKS has established itself into Import, Bottling & Distribution of LPG in Bangladesh under the brand name of "SENA LPG". Yearly 30,000 MT storage capacity, fully automatic, European standard and state of the art SKS LPG plant is located at Mongla Port Industrial Area, Bagerhat.

SKS LPG hereby requests for proposal from all bonafide local and international companies for supplying LPG Road Tanker and related equipments as specified below:

| Sl.no | Item | Quantity | Holding Capacity |
|-------|---|----------|--------------------------------|
| 1 | LPG Road tanker/ Bobtail (including trailer, Flow meter and unloading pump) | 1 Nos | 18 MT LPG / ±38,600 Ltrs Water |

Details specification and other commercial information can be collected from SKS official website: www.senakalyan.org

COMMERCIAL SCOPES:

| | | |
|-----------------|---|--|
| Delivery | : | Please mention. |
| Delivery Period | : | Please mention. |
| Payment Terms | : | By Irrevocable LC (or bank transfer in case of local supplier). |
| Warranty Period | : | At least 12 months needed. |
| Bg/Pg | : | Suppliers must submit a 5% of total product price as performance guarantee/bank guarantee to be held during the warranty period. |
| Documentation | : | 5 sets of as built fabrication drawings copy along with Complete set of tank file folder with mill test reports of steel and the original copy of 3rd party inspection report issued for tank must be submitted. |

For any queries, Please reach out to:

Email: lpghscm@senakalyan.com / commercial.skslpg@gmail.com,

Mob: +8801769056538 / 01728577793.

Interested firm/companies are requested to submit their signed **HARD COPY** commercial proposal (with technical specification) by **08 March 2025**, from 10am to 3pm in a dedicated drop box kept in the below office :

SKS LPG (Head office): Business Division-2, Sena Kalyan Sangstha, SKS Tower (Level-10), 7, VIP Road, Mohakhali, Dhaka-1206, or **BY EMAIL** to the aforementioned mail IDs.

SKS LPG reserves the right to cancel this selection process without assigning any reason whatsoever.

Head of Business Division-2
Sena Kalyan Sangstha

**TECHNICAL SPECIFICATION FOR 18 MT LPG ROAD TANKER WITH
TRAILER, FLOW METER AND UNLOADING PUMP:**

A. GENERAL REQUIREMENT:

| | | |
|----------------------|---|--|
| MODEL | : | LPG TANKER |
| STORAGE CAPACITY | : | 18 MT at 85% of full tank capacity |
| WATER CAPACITY | : | 38.5 M ³ / 38,600 Ltr |
| SERVICE | : | LPG |
| DESIGN CODE | : | ASME SEC VIII DIV II |
| DESIGN PRESSURE | : | 17.0 ± 1.00 KG/CM ² + 3G EFFECT |
| DESIGN TEMP | : | -20°C TO +60° C |
| TEST PRESSURE | : | 27 Bar |
| CORROSION ALLOWANCE | : | 0.5 mm |
| JOINT EFFICIENCY | : | 1 |
| RADIOGRAPHY | : | All Butt Weld Seams Will Be 100% Radiographed. |
| POST WELD HEAT TREAT | : | Fully Stress Relieved For The Complete Tank. |
| INSPECTION | : | Product Must Be Inspected Neutrally and Thoroughly By Authorized Third Party Free From Any Obligation to Either Party- |
| | | <ul style="list-style-type: none">• Checking & Approval of Design & Calculation• Radiographic Control• Nitrogen Purging confirmation• Penetration Die Test• Hydrostatic Test• Gauging certificate for tank etc. |
| CLEANING & PAINTING | : | Sandblasting With SA 2.5, Painted With Under Coat & Polyurethane Based White Top Coat. Min. Total Thickness: 200-225 Microns Final Coat Shall Be White. |
| | | Logo and design as per buyer's choice |
| TYPE OF ENDS | : | <u>Torrispherical</u> |

B. DIMENSIONS :

| | | |
|-------------------------|---|---------|
| OVERALL LENGTH | : | 9540 mm |
| INNER DIAMETER OF SHELL | : | 2320 mm |
| SHELL LENGTH (TL-TL)(L) | : | 8239 mm |

| | | |
|-----------------------|---|--------------------------------------|
| SHELL THICKNESS | : | 14 mm |
| DISHEND THICKNESS | : | 14 mm |
| MANHOLE | : | 18" MANHOLE AT REAR END OF THE TANK. |
| BAFFLES | : | MIN 2 NOS. X 6 ±1.00 MM THICK |
| ULTRASONIC EXAM | : | YES |
| LIQUID PENETRANT EXAM | : | YES |

C. MATERIAL OF CONSTRUCTION:

| | | |
|----------------|---|---|
| SHELL /DISHEND | : | SA 516 GR 70 /EQUIVALENT QUALITY |
| FLANGES | : | ASTM A 105 X ANSI B16.5 /EQUIVALENT QUALITY |
| COUPLING | : | ASTM A 105 X 6000 /EQUIVALENT QUALITY |
| PIPES | : | SA 106 GR B /EQUIVALENT QUALITY |
| FASTENERS | : | SA 193 GR L7/ SA 194 GR 2H /EQUIVALENT QUALITY |
| GASKET | : | CAF |
| WELDING | : | SAW/SMAW/GTAW with post-weld Heat treatment; the welding Grooves Should Comply with Standard and Full Penetration Should Be Provided in Weld Seams. Welding Must Be Carried Out Only By Qualified Welders |

D. RUNNING GEAR :

- SUSPENSION : The Suspension Should Be Of Heavy Duty And Built By Silico-Manganese Steel.
- PAY LOAD : 25,000 kgs
- ABS : with ABS.
- AXLE : York Make Heavy Duty 2 Axles Group With Dual Mounted Tyres Each Of Which Should Be Minimum 12 Tons With Decreasing Profile Spindles.
- BRAKE : Double Circuit Two-Line Pneumatic System
- PARKING BRAKE : Manually Operated Parking Brake. Type 30/30 Spring Brake System On Rear Axles.
- WHEELS : 10 HOLES 10.0 -20 WHEEL.
- TYRE : 10 R20 x 8NOS + 1 SPARE
- KING PIN : 2" KING PIN
- AIR TANK : MINIMUM CAPACITY 2 X 50 LTRS
- LOCKABLE TOOL BOX : To Be Welded To The Running Gear
- TYPE : HEAVY DUTY

E. LANDING LEG:

Mechanically Operated With Universal Base Plate.

- York (Two Speed Manual Operation Type With Sand Shoe)
- The Static Capacity Should Be Of 50 ± 5 Tons and the Dynamic One of 24 ± 5 Tons.
- One Side Operation By Means Of Levers with Two Speed System.

F. ELECTRICAL SYSTEM:

| | | |
|------------|---|--|
| VOLTAGE | : | 24 VOLTS |
| RECEPTACLE | : | 7 WAYS |
| LIGHT | : | Front Marker Lamp : White Side Marker Lamp : White And Red Rear Lamp : Red Turn Signal Lamp : Amber |
| TYPE | : | Led & Water Proof |

- ✓ Location of Four Lights on Each Side Of The Semi-Trailer. Each Light should Be White Facing the Front and Red Facing the Rear.
- ✓ Tail Light, Indicators, Blinkers with Number Plate Light and All Standard Accessories should Be Provided.
- ✓ Must provide Tail Light Protection by Mesh.

LIST OF SAFETY FITTINGS TO BE PROVIDED ON TANK:

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|---|---|
| Safety relief valve | 2 Nos., 2" NPT , REGO /EQUIVALENT QUALITY |
| Internal Excess flow valve for liquid inlet & Liquid Outlet | 2 Nos., 2" NPT , FISHER/EQUIVALENT QUALITY |
| Internal Excess flow valve for vapor | 1 No. 1 1/2 " NPT, FISHER /EQUIVALENT QUALITY |
| Pressure gauge | 1 No., 3/4"NPT , Dial 0-35 Kg/cm ² , (WIKA /EQUIVALENT QUALITY) |
| Excess Flow valve for pressure gauge | 1 No., 3/4" NPT , REGO /EQUIVALENT QUALITY |
| Temperature gauge | 1 No., 1/2 " BSP, Dial 0-100°C , (WIKA /EQUIVALENT QUALITY) |
| Roto gauge | 1 No., 1" NPT Dial 0-100%, REGO /EQUIVALENT QUALITY |
| MAGNETIC LEVEL GAUGE | 1 no . 8" DIAL , Roughrider Gauge ROCHESTER/EQUIVALENT QUALITY |
| Fixed high level gauge | 1 Nos., 1/4" NPT REGO /EQUIVALENT QUALITY |
| Ball valve for liquid inlet & Liquid outlet | 2 Nos., 2" NB |

| | |
|-------------------------------|--|
| Ball valve for and vapor line | 1 Nos.,1.5 ” NB |
| Manhole | Dia- 18” (On Rear End) |
| ACME ADAPTOR | 2 Nos 2 ¾” for liquid inlet &outlet 1No 2 ¼” for vapor. |

LIST OF ACCESSORIES TO BE PROVIDED WITH TANK:

| | |
|---------------------------------|---|
| Tank stairs | MS Stair Case will be fitted with the tank |
| Unloading pump | Unloading pump with explosion proof motor capacity 350-400 LPM complete with necessary piping |
| Flow meter | Corioless Mass flow meter with vapor trap & differential pressure valve complete with control system. |
| Support saddles | Welded fixed steel saddles as per design requirement. |
| Earthing cleat | Brazed Copper Chain Link at both ends of the tank will be properly hanged to touch ground/road. |
| Ladder | 1nos CS at External |
| Lifting lug | 2 Nos. welded lugs for the tank as per requirement of the Design Code. |
| Fire extinguishers | 2 Nos. Portable ABC Dry Powder Extinguishers will be fitted properly. |
| Manuals, Spare Parts & Tool Box | Manuals: Required Two sets (Each Type) 1. Operation & Safety 2. Maintenance both in Hard & Soft Copy. |
| Tool Box | As per standard |
| Accessories | Two fenders /Two bumpers /One spare tire fixing places /Mud flaps /Manual type spare wheel carrier |
| Tank Manifold Cover | MS Box with good paint to avoid rust for valve box & bobtail equipment’s with locking arrangement. |
| Packing for Tank | wrapped with polythene plastic |

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