



बामर लॉरी एण्ड कं. लिमिटेड
(भारत सरकार का एक प्रतिष्ठान)
Balmer Lawrie & Co. Ltd.
(A Government of India Enterprise)
www.balmerlawrie.com

Survey No. 201/1, Sayali, Silvassa -396230. Phone 0260-6993940, 6993945,
E-mail – srivastava.sk@balmerlawrie.com, Contact No. 09099084731 [Extension 12/60]

e-Tender Enquiry

e-Tender No. : GLS/TE19/064

Date: 10/12/19

Due date : 21/12/19 till 6.00 PM

Sub: Online [Two Part] Bids are invited for the Supply-Installation-Commissioning of one set of “Air Compressor-Air Drier & Accessories” at our Greases & Lubricants Division, Silvassa.

Balmer Lawrie & Co. Ltd. is a leading manufacturer of greases and lubricants in India. The Company intends to procure one (01) set of “Air Compressor including Air Drier and require Accessories”. Online bids [e-mail envelop and fax offers are not acceptable] are invited from our registered vendors having sound infrastructure, technical and financial capabilities with manufacturing after sales service facility.

The interested bidders may go through the enclosed “**Instruction to Tenderers**” (Annexure “A”), General Terms & Conditions” (Annexure “B”), HSE Chapter (Annexure “C”), “**General Description & technical specification**” (Annexure “D”), and “Scope of Work & Price Schedule” (Annexure E) before quoting the rates. The rates are to be quoted only online as per format given on our website. Your Un-Price Bid/Technical offer, complete in all respects should be submitted online as well as hard copy of the same (Un-Price Bid/Technical offer) should reach us in sealed envelope clearly mentioning the tender reference no. on the envelop on or before the due date at the address given below.

Balmer Lawrie & Co. Ltd.,
Grease & Lubricant Division,
Survey No. 201/1, Sayali-Rakholi Road
P.O.- Sayli , SILVASSA – 396230.

Price/Rate has to be uploaded online only. Tender/offer of the Bidder/Bidders who send the hard copy of price bid or email, would be rejected directly.

The bidder shall submit interest-free Earnest Money Deposit [EMD] of Rs. 10000.00/- (Rupees Ten Thousand Only) by Pay Order/D.D. drawn in favour of “**Balmer Lawrie & Co Ltd**” payable at **Silvassa or Vapi** along with the un-priced bid. The Un-priced bid without EMD shall not be considered for evaluation. The EMD of successful bidder(s) shall be retained till submission of SD which will be 5% of Basic Order Value. EMD of unsuccessful bidders will be refunded within a month of finalization of order under this tender. EMD/Security Deposit can also be paid directly to our **HDFC Bank Limited (Account No. 00740110000057 NEFT Code - IFSC “HDFC0000074”)** through electronic transfer and proof of transfer of funds deposited with us.

MSME/SSI are exempted from EMD provided they submit valid certificate along with un-priced bid.

Your offer, complete in all respect furnishing details should be submitted to online, on or before the due date.

Thanking you,

Yours faithfully,

(S.K Srivastava)
Manager (Purchase)

Encl.: As above.



Balmer Lawrie & Co. Ltd.

(G & L- Silvassa)

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Annexure-A

1.0 Instruction to Tenderers

- 1.1 Before filling up, the complete Tender Specification should be read properly. If the tenderer finds any discrepancy, omission, ambiguity or conflict in or among the documents forwarded or asked for or be in doubt as to their meaning and interpretations, such matter shall be brought to the attention of Balmer Lawrie & Co. Ltd. (hereinafter referred to as BL), at least four working days before/prior to the date of filling/submission of the Tender.
- 1.2 Tenderers shall visit the site and make themselves thoroughly acquainted with the nature and requirements of the supply, service, facilities for access of site etc.
- 1.3 In case tenderers wants to communicate/provide any other information, they should enclose a separate sheet, in the sealed envelope along with EMD, provided their statement is not in contradiction to the terms and conditions of the tender.
- 1.4 Submission of tender will be construed as a conclusive evidence that the tenderer has fully satisfied themselves as to the nature and scope of the work, site conditions and all other factors, affecting the performance of the job and the cost thereof.
- 1.5 The contractor shall cover the insurance of all workmen and other persons employed by the contractor and subcontractor against accident, injury & death till the completion of job.
- 1.6 The material deployed/stored by the contractor in the premises of BL will be at the sole risk of the contractor and BL will no way be responsible for its safety.
- 1.7 Contractor shall maintain the site neat and clean. All material shall be stored neatly in storage space allotted to them and shall take care that no obstruction is made for free movement.
- 1.9 Proper safety precautions and measures to be taken bearing in mind the principle of "Safety Comes First" during the entire contract period. The contractor shall be bound to bear any claim or compensation for the accidents, injury and death arising out of negligence on their part to ensure such safety measures including the expenditure for defense legal proceedings.

Contact Person:

Signature with official stamp

Contact Number:



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1.10 Care shall be taken to provide and maintain the following safety measures and statutory safety rules and act in force.

- a) Ladders and scaffoldings shall be provided for the work that cannot be done from the ground. Portable single ladders shall not be more than 8 meters. Additional labour should be provided for folding the ladders. Over hung platforms and platforms provided for the ladders and scaffoldings shall be of minimum 300 mm wide and shall be with rising of minimum 1000 mm high.
- b) Safety belts and helmets etc., to be provided to the workers working at high elevations/risk areas.
- c) Fabrication and welding gangs should be provided with gloves, protection, goggles, welding helmet etc.
- d) Hoisting machines and tackles including their attachments, anchorage and supports of adequate capacity should be used for handling heavy equipments and panels.
- e) Workmen engaged in electrical work should be provided with gloves, and footwear's of adequate insulation value.
- f) Workmen engaged in toxic chemicals, paints etc should be provided with gumboots, gloves, goggles mask and other protective attachment depending upon the depth of expected hazard.
- g) All safety requirements depending on the nature of work should be provided to minimize the occurrence of accidents.
- h) Care shall be taken during working in pressurized system, it should depressurized before start the work.
- i) Only authorized person are permitted to work for electrical related job and compressor commissioning job.

1.11 Pre-Qualification Criteria:

- 1.11.1 Vendors should be either OEM or OEM authorized dealers/distributors/channel partner/ system integrator have sound infrastructure, technical and financial capabilities and after sales service facility (for maintenance & spare parts supply).
- 1.11.2 Vendor has to provide at least 1 job completion certificate/PO for similar type of supply and service in last two years.
- 1.11.3 After sales service, bidder shall furnish the details of their after sales service facility available at or around Silvassa/Vapi. The supplier shall be providing a high level of service support to BL. A primary means of support is through extensive technical assistance via email and phone which shall be provided free of charge. This includes a 24 hour emergency number for urgent support. Any major servicing / AMC will be done after one year of installation.
- 1.11.4 Vendor should have Minimum Turnover Rs 30 L in year 2017-18 & year 2018-19 individually. Kindly share the profit loss statement of both the years in support of required turn over duly certified by Chartered Accountant

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Annexure-B

1.0 General Terms & Conditions:-

- 1.1 **General instruction:** - Do not leave any space blank or incomplete, write NA/NIL/Free wherever applicable. Each page of the offer (enclosures) has to be acknowledged by the bidder with their acceptance (signature & company stamp). In case of offer, which are not found in line with our guidelines and Terms & Conditions, may subject to rejection. If the tenderer find any discrepancy, omission, ambiguity or conflict in or among the documents forwarded or be in doubt as to their meaning and interpretations, such matter shall be brought to the attention of the BL (Balmer Lawrie & Co. Ltd.), at least four days before/prior to the date of filling/submission of the Tender.
- 1.2 **Submission of Technical Bid/documents in support of Pre-Qualification criteria/ Unpriced Bid:** - Bidder has to upload the Price Bid online as well as Technical Bid/Unpriced Bid also. Bidder has to submit their copy of un-price bid/Technical bid in a single bid/envelope, superscripting the envelope with tender No., date & due date along with following enclosures also-
- Covering letter with your reference number & date.
 - Acknowledgement of understanding the scope/ objective/ technical specifications/ General Terms and conditions/ HSE Policy etc of the project. Kindly submit the tender document duly signed and stamped.
- 1.3 **EMD** [As per details given below] and Offer without EMD would not be accepted from Non-MSME vendors. Please refer below for more details.
- EMD :-** Tenderers /Bidders are required to pay an **EMD amount of Rs 10,000** by way of Demand Draft / A/C Payee pay order/ Bank Guarantee / NEFT/RTGS/IMPS/ Online Transfer. Proof of the same has to be submitted along with the unpriced bid.
- The Demand Draft should be drawn in favor of “**Balmer Lawrie & Co. Ltd**” payable at Silvassa for EMD.
- EMD** in the form of Bank Guarantee as per the company’s specified format may also be submitted.
- EMD/Security Deposit** can also be paid directly to our HDFC Bank Limited (Account No. 00740110000057 NEFT Code - IFSC “HDFC0000074”) through electronic transfer and proof of transfer of funds should be deposited with us.
- EMD of the unsuccessful Tenderers will be refunded after finalization of Tender. EMD shall not bear any interest. EMD of successful tender may be retained as part of security Deposit.

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Provisions for MSME Vendor

website as required by minister vide circular no F:No21(17) / 2016 dated 06.04.18 for qualifying to be considered as MSME vendor under this tender. b) Micro & small scale manufacturing units, registered under MSME/ NSIC, also complying clause of EMD: in the tender are exempted for submission of EMD amount.

- 1.4 **Acceptance of offer:** -Balmer Lawrie & Co. Ltd. reserves the right to reject/accept all or any offer(s). Offers sent through fax/e-mail shall not be accepted. The company will not accept any Responsibility for any delay in receipt of bidding document sent by post.
- 1.5 **Selection & placement of offer:** Purchase order will be placed on a single **technically & commercially qualified vendor**, who's total price of entire supply **stands lowest**. The price bid of technically qualified vendors, would be opened and considered for final evaluation only.
- 1.6 **Jurisdiction:** - All disputes are subject to Silvassa (D&NH) jurisdiction.
- 1.7 **Delivery/completion schedule:** -The period of subject supply, installation and commissioning should be **45 days** from the issue date of Purchase Order (PO) or LOI whichever is earlier. However, the short/early completion quoted by bidder may be preferred. The supply shall be made at our works at **Survey No. 201/1, Sayli-Rakholi Road, Sayli, Silvassa – 396230 (D&NH)**.
- 1.8 **Liquidated damages:-**Vendor shall be liable to pay liquidated damages for the following:
 - 1.9 Failure to complete supply of item to BL within the scheduled period. In such case, vendor shall be liable to pay liquidated damages @ 0.5% of PO value per week or part thereof subject to a maximum of 5.0%.
 - 1.10 **Price schedule:** - The price shall be quoted as per specified format given under the head **price schedule** as annexure-E. The price must be quoted considering technical data sheet and it would be quoted online only.
 - 1.11 **Payment terms:** - (i) 90% of PO value on 30 days credits after supply and commissioning, from date of submission of bill (ii) Balance 10% of PO Value shall be kept as retention money & will be released after completion of guarantee period without any interest or against submission of performance bank guarantee.
 - 1.12 **Guarantee/ Warranty Period:** The warranty period for the Air Compressor, Electrical Motor and all other accessories should be a minimum of 12 months from the date of successful commissioning or 18 months from the date of dispatch, whichever is earlier against defects arising from faulty materials, workmanship or design. Defective goods/ materials or parts notified by BL to the Seller shall be replaced immediately by the seller on F.O.R. destination basis including payment of all taxes and duties at Seller's expense. The relevant warranty certificate should be submitted at the time of delivery of the air compressor unit.

Only for "Screw element" the warranty period to be consider as minimum 5 (i.e 1 + 4) years.

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- 1.13 **Validity of offer:** - The offers shall remain valid for a period of 60 days from the date of closing the tender.
- 1.14 **After sales service:** - Bidder shall furnish the details of their after sales service facility available at / OR around Silvassa.
- 1.15 **Performance Bank Guarantee (PBG):** - PBG shall be furnished in specified format of Balmer Lawrie & Co. Ltd. and shall be valid for one year from the date of successful commissioning. PBG can also be paid directly to our **HDFC Bank Limited (Account No. 00740110000057 NEFT Code - IFSC "HDFC0000074")** through electronic transfer and proof of transfer of funds should be deposited with us.
- 1.16 **Documentation:** - Vendor shall have to submit 2 set of "complete maintenance manual and spare parts list" along with item/s.
- 1.17 **Tenderer must contain any other information/enclosures** as may be needed to complete the schedule supply in all respect on a separate page/sheet under "schedule of deviations", however technical specification as mentioned in above Annexure 'A' are 'fixed'.
- 1.18 **Submission of tender** will be the conclusive evidence as to the fact the tenderer has fully satisfied themselves as to the nature and scope of 'supply, General terms and conditions and all other factors', affecting the performance of the contract and the cost thereof.
- 1.19 **TENDER CANCELLATION CLAUSE:** Balmer Lawrie & Co Ltd (BL) may at its own discretion cancel the tender process at any time [whether before or after tender submission date] due to any unforeseen / unavoidable circumstances or due to any other reason. BL is not liable to provide any reason to the participants/ bidders in said tender for the same.
- 1.20 **GST Clause :-** "The vendor should compulsorily follow all the provisions of GST Law and in the event of any default of complying with any of the provisions of the GST Law, Balmer Lawrie would exercise the right for non-payment / withholding payment / black listing the vendor."
- 1.21 **Factory Rule:** Your engineers/ workmen have to abide by the BL factory rules and regulations. Only adult and skilled workmen shall be allowed to work in BL premises.
- 1.22 **Responsibility of the vendor:** The vendor shall be responsible for any damage caused to the property and/or machinery (including its any part) of BL, directly and/or indirectly incidental to and connected with the execution of the work and shall be liable to indemnify the value of such damaged property and/or machinery.
- 1.23 **Site facilities by BL :**
- (i) **Power supply :** BL will arrange Power supply as per requirement, any extension by vendor.
 - (ii) **Water supply :** BL will arrange a Water supply point(If require), any extension by vendor.
 - (iii) **Storage :** Space by the company and security by vendor.
 - (iv) **Air line :** BL will arrange compressed-dry air received point as per vendor requirement.

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- 1.24 Procedure for Bid Submission:** The bidder should submit their response through bid submission to the tender on eProcurement platform at <https://balmerlawrie.eproc.in> by following the procedure given below. The bidder would be required to register on the e-procurement market place <https://balmerlawrie.eproc.in> and submit their bids online. No offline bids should be entertained by the Tender Inviting Authority. The bidders should submit their eligibility and qualification documents, Technical bid, Financial bid etc., in the standard formats prescribed in the Tender documents displayed in procurement web site. The bidders should upload the scanned copies of all the relevant certificates, documents etc., in support of their eligibility criteria/technical bids in the eProcurement web site. However, bulky documents need not be scanned and uploaded but physical copy of the same should be sent to the Tender Inviting Authority office before the tender opening date. The bidder should sign on the statements, documents, certificates, uploaded by him, owning responsibility for their correctness/authenticity.

Registration with eProcurement platform:

For registration and online bid submission bidders may contact HELP DESK of M/s C1India Pvt., Ltd., or they can register themselves online by logging in to the website <https://balmerlawrie.eproc.in>

Digital Certificate authentication:

The bidder shall authenticate the bid with his Digital Certificate for submitting the bid electronically on eProcurement platform and the bids not authenticated by digital certificate of the bidder will not be accepted on the eProcurement platform.

<u>Contact Person (Monday to Friday)</u>	<u>E-Mail ID</u>	<u>Tel. No.</u>
Mr.Tirtha Das (Kolkata)	tirtha.das@c1india.com	9163254290
Mr.Partha Ghosh (Kolkata)	partha.ghosh@c1india.com	8811093299
Ms. Ujwala Shimpi (Mumbai)	ujwala.shimpi@c1india.com	022-66865608
Helpdesk Support (Kolkata)		8017272644

Address: M/s C1 India Pvt Ltd., C104, Sector – 2, Noida 201 301.

Bid Submission Acknowledgement:

The user should complete all the processes and steps required for bid submission. The successful bid submission can be ascertained once acknowledgement is given by the system through bid submission number after completing all the processes and steps. Tender Inviting Authority and C1 India Pvt. Ltd. should not be responsible for incomplete bid submission by users. Users may also note that the incomplete bids

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should not be saved by the system and are not available for the Tender Inviting Authority for processing.

Before uploading scanned documents, the bidders should sign on all the statements, documents, certificates uploaded by him, owning responsibility for their correctness / authenticity.

All the bidders who do not have Digital Certificates need to obtain Digital Certificate. They may contact Help Desk of C1 India Pvt Ltd.

Submission of Hard copies:- The bidders are requested to submit the demand drafts towards EMD/Online EMD Submission Proof [If ask] along with other documents as required, to the Tender Inviting Authority on or before opening of due date. Under no circumstances Hard copy of Price Bid should be sent. The bidder should furnish the original DD and other documents either in person or through courier or by post and the receipt of the same within the stipulated time should be the responsibility of bidder. BL should not take any responsibility for any delay or non-receipt of said documents. If any of the documents furnished by the bidder is found to be false / fabricated, the bidder is liable for black listing, forfeiture of the EMD, cancellation of work and criminal prosecution.

Corrigendum to tender: The bidder has to keep track of any changes by viewing the addendum / Corrigendum's issued by the Tender Inviting Authority on time-to- time basis in the E-Procurement platform. The Company calling for tenders should not be responsible for any claims/problems arising out of this.

Disclaimer Clause: The Company (Balmer Lawrie & Co. Ltd.) nor the service provider (C1 India Pvt. Ltd.) is responsible for any failure of submission of bids due to failure of internet or other connectivity problems or reasons thereof.

The company reserves the right to accept or reject any or all offers without assigning any cause. Incomplete offers are liable to be rejected.

Bidder should submit their unpriced bid in a envelope, superscripting the envelope with tender no., date & due date along with following enclosures-

- i. Covering letter
- ii. Signed and Stamped tender document as a token of acceptance of tender terms. Each page of the offer (enclosures) has to be acknowledged by the bidder with their acceptance (signature & company stamp). In case of offer, which are not found in line with our guidelines and Terms & Conditions, may subject to rejection.

Price bid over email/fax or in sealed bid are not acceptable and bidder has to quote the price on our e-Procurement portal only.

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Annexure – C

HSE Chapter

In order to achieve the tender goal in a very smooth & SAFE manner, all the Bidders are required to comply with this HSE chapter, before, during and after the tender finalization or related job execution, in following prescribed procedure:

Questionnaire for HSE Pre-Qualifications of contractors:

Contactor Details	
Company Name	
Contact Person for HSE	
Mobile Number	
e-Mail Address	

Guidelines for Completion of Questionnaire

- The potential bidder is to ensure that the answers provided are focussed against the activities indicated in the pre-tender document.
- Contractor shall provide information that is authentic with documentary evidences as applicable.
- Even after getting pre-qualified, if it comes to the notice that non-authentic documents are provided, the Contractor may be disqualified and if any Contract is in place, it may be terminated immediately and no compensation will be provided for such termination.
- BL shall have right to check Contractors records to verify the authenticity of the documents, during the contract period.

	Question	Response	
		Yes	No
1	Do you confirm that you will comply with BL HSE Policy while working in BL premises	<input type="checkbox"/>	<input type="checkbox"/>
2	Have you identified, documented and maintained your Health and Safety risk assessment of your activities?	<input type="checkbox"/>	<input type="checkbox"/>
3	Have your employees received HSE training appropriate to the task they will undertake?	<input type="checkbox"/>	<input type="checkbox"/>
4	Do you carry out regular medical examination for your employees?	<input type="checkbox"/>	<input type="checkbox"/>
5	Is your company free from any charges or notices served by the regulatory authorities in relation to HSE in the last 3 years?	<input type="checkbox"/>	<input type="checkbox"/>
6	Do you have any procedure of reporting HSE Incident and investigation?	<input type="checkbox"/>	<input type="checkbox"/>

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	Please provide your accident data for the current year and the previous two years Note: this must include the data of any contractors working for your organization.	Current Year	Previous Year -1	Previous Year -2	Period Average (Three years average)
1	Number of Fatalities, if any				
2	Number of Environmental Incidents reported to Pollution Control Board				
3	Number of accidents with 2 or more days lost time(LTI)				
4	Man Days Lost				
5	Total Hours Worked				

Name	Position	Date	Signature

HSE Requirements BY CONTRACTORS (To be a part of contract documents)

1.0 Housekeeping

Contractors shall ensure that their work area is kept clean tidy and free from debris. The work areas must be cleaned on a daily basis. Any disposal of waste shall be done by the Contractor.

All equipment, materials and vehicles shall be stored in an orderly manner. Access to emergency equipment, exits, telephones, safety showers, eye washes, fire extinguishers, pull boxes, fire hoses, etc. shall not be blocked or disturbed.

2.0 Confined Space

Before commencing Work in a confined space the Contractor must obtain from BL a Permit to Work, the Permit to Work will define the requirements to be followed.

As minimum Contractors must ensure the following:

- Confined spaces are kept identified and marked by a sign near the entrance(s).
- Adequate ventilation is provided
- Adequate emergency provisions are in place
- Appropriate air monitoring is performed to ensure oxygen is above 20%.
- Persons are provided with Confined Space training.
- All necessary equipment and support personnel required to enter a Confined Space is provided.

Contact Person:

Signature with official stamp

Contact Number:



3.0 Tools, Equipment and Machinery

The Contractor must ensure that all tools & equipment provided for use during the Work is:

- suitable for its intended use;
- safe for use, maintained in a safe condition and where necessary inspected to ensure this remains the case (any inspection must be carried out by a competent person and records shall be available);
- Used only by people who have received adequate information, instruction and training to use the tool or equipment.
- Provided with Earth leakage circuit breaker (ELCBs) at all times when using electric power cords. Use of electrical tape for temporary repairs is prohibited.

4.0 Working at Height

Any Work undertaken where there is a risk of fall and injury is considered to be working at height.

For any Contractor Personnel working at height, Contractors shall provide fall prevention whenever possible and fall protection only when fall prevention is not practicable. Before commencing Work in a height the Contractor must obtain from BL a Permit to Work, the Permit to Work will define the requirements to be followed.

Supervisor must be present at all point of time, to ensure no deviation occur during the course of work.

5.0 Fall Prevention System

Fall prevention systems (e.g. fixed guardrails, scaffolds, elevated work platforms) must provide protection for areas with open sides, including exposed floor openings.

6.0 Fall Protection Systems

Where fall protection systems are used then the Contractor must ensure the following is applied:

- i. Only approved full body harness and two shock-absorbing lanyards are used,
- ii. Prior establishment of a rescue plan for the immediate rescue of an employee in the event they experience a fall while using the system,
- iii. Anchorage points must be at waist level or higher; and capable of supporting at least the attached weight,
- iv. Lifeline systems must be approved by BL before use.

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- v. Use of ISI marked industrial helmet at all point of time.

7.0 Scaffolding

All scaffolds shall subject to a documented inspection by a competent person and clearly marked prior to use. The footings or anchorage for scaffolds shall be sound, rigid and capable of carrying the maximum intended load without settling or displacement. All scaffolding materials should be of MS tubular type.

Guardrails and toe-boards shall be installed on all open sides and ends of scaffold platforms. Scaffolds shall be provided with an access ladder or equivalent safe access. Contractor Personnel shall not climb or work from scaffold handrails, mid-rails or brace members.

8.0 Stairways and Ladders

Ladders should only be used for light duty, short-term work or access in line with the below and the Site Requirements.

- a. Fabricated ladders are prohibited.
- b. Ladders will be secured to keep them from shifting, slipping, being knocked or blown over.
- c. Ladders will never be tied to facility services piping, conduits, or ventilation ducting.
- d. Ladders will be lowered and securely stored at the end of each workday.
- e. Ladders shall be maintained free of oil, grease and other slipping hazards
- f. Ladders will be visually inspected by a competent person and approved for use before being put into service. Each user shall inspect ladders visually before using.
- g. Ladders with structural defects shall be tagged "Do Not Use," immediately taken out of service, and removed from the Site by the end of the day.

9.0 Roof Work/Access

Roof work and access to roofs must not be undertaken without prior authorization from BL.

10.0 Overhead Work

A secure exclusion zone shall be maintained by Contractor below overhead work to prevent access. It is forbidden to work beneath a suspended load.

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11.0 Lifting Operations

Cranes and Hoisting Equipment

Contractors shall operate and maintain cranes and hoisting equipment in accordance with manufacturers' specifications and legal requirements.

Only Contractor Personnel trained in the use of cranes and hoists are permitted to use them.

Lifting Equipment and Accessories

All lifting equipment / accessories e.g., slings, chains, webbing, chain blocks, winches, jacks etc. shall be indicated with their safe working load have an identification number visible on the unit and be inspected and tested in accordance with legal requirements.

Damaged equipment / accessories and equipment shall be tagged "out of use" and immediately removed from Site.

12.0 Lockout Tag out ("LOTO")

Prior to performing work on machines or equipment, the Contractor shall ensure that it is familiar with LOTO and Permit to Work procedures and that all of its affected Contractor Personnel receive the necessary training.

13.0 Barricades

Floor openings, stairwells, platforms and walkways, and trenching where a person can fall any distance shall be adequately barricaded and where necessary, well lit. Where there is a risk of injury from a fall then rigid barriers must be used.

Barricades must also be used to prevent personnel entering an area where risk of injury is high e.g., during overhead work activity or electrical testing etc. Such barricading must provide clear visual warning.

14.0 Compressed Gas Cylinders

Gas cylinder shall be securely stored and transported, and identified and used in line with the local requirements. Hose lines shall be inspected and tested for leaks in line with local requirements. Flash Back arrestor to be used to prevent any explosion due to back fire.

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15.0 Electrical Safety

Prior to undertaking any work on live electrical equipment the Contractor must obtain a Permit to Work from BL. Where ever possible live work should be avoided. Any control measures highlighted shall be implemented prior to work commencing.

The below measures will be taken:

- a) Work practices must protect against direct or indirect body contact by means of tools or materials and be suitable for work conditions and the exposed voltage level.
- b) Energized panels will be closed after normal working hours and whenever they are unattended. Temporary wiring will be de-energized when not in use.
- c) Only qualified electrical Contractor Personnel may enter substations and/or transformer and only after being specifically authorized by BL.

16.0 Hot Works

A Permit to Work must be obtained from BL prior to any hot works (welding, grinding, open flame work). Suitable fire extinguishing equipment shall be immediately available. Objects to be welded, cut or heated shall be moved to a designated safe location, or, if they cannot be readily moved, all movable fire hazards in the vicinity shall be taken to a safe place. Personnel working around or below the hot works shall be protected from falling or flying objects.

Prior to the use of temporary propane or resistance heating devices approval must be obtained from BL.

17.0 Trenching, Excavating, Drilling and Concreting

A Permit to Work must be obtained from BL and all underground lines, equipment and electrical cables shall be identified and located prior to beginning the work. The Contractor shall assign a competent Contractor Personnel to all trenching and excavation work.

Safe means of access and egress shall be located in trench excavations. Daily inspections shall be conducted by a competent Contractor Personnel for evidence of a situation that could result in possible cave-ins, indications of failure of protective systems or other hazardous conditions. Physical barriers shall be placed around or over trenches and excavations. Flashing light barriers shall be provided at night.

18.0 Environmental Requirements

Waste Management

The Contractor is responsible to remove any waste generated by the work being done on the Site. The Contractor must dispose of the waste in line with the relevant local legislative requirements. The waste disposal route shall be documented and made available for BL to review at any time and may be subject to BL's prior approval.

Wastes (includes rinse from washing of equipment, PPE, tools, etc) are not to be poured into sinks, drains, toilets, or storm sewers, or onto the ground. Solid or liquid

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wastes that are hazardous or regulated in any way are not to be disposed of in general site waste receptacles.

Spills

The Contractor is responsible for the provision of adequate spill kits/protection and the clean-up and disposal costs arising from such spills.

19.0 Emissions

The Contractor shall identify and quantify any emission sources associated with the Works. The control measures associated with these emission shall be subject to the approval of BL. Emissions include but are not limited to noise, dust, fumes, vapours.

Last date for submission of on line bid Till 21/12/19 upto 6.00 PM.

For Balmer Lawrie & Co. Ltd

Manager (Purchase)

Contact No. 09898896501

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Annexure-D

General Description & Technical Specification

1.00 General Description and technical specification of Air Compressor-Air Drier & others required Accessories:

- 1.01 The compressor is a single stage, positive displacement, fluid flooded helical screw type unit. Compressor consists of two precision-machined rotors. The male rotor is driven by a gear train, connected to motor shaft through suitable drive. All parts are to be machined to exacting tolerances. Both rotors are to be housed in a single cast iron cylinder.
- 1.02 The unit should have an inlet port at the power-input end and a discharge port at the opposite end. The compression cycle of the rotary compressor should be a continuous process from intake to discharge with no reciprocating mechanisms starting and stopping as found in reciprocating compressors. All components are to be attached to a heavy-duty steel frame. Controls and indicators are to be arranged on a control panel.
- 1.03 The screw Air Compressor set must be placed within an Acoustic cabinet for reducing sound levels to 75 dBA or less as per ISO 2151:2004 annexure-C measured at a distance of 1mt in free field condition as per PNUROP/CAGI test codes. The Screw compressor should be designed for Ambient Temperature of 45 degree C.
- 1.04 Manual Vent and Shutoff Valve Needs to be Installed a manual valve to vent the compressor and the compressor discharge line to atmosphere. In those instances where the air receiver tank services a single compressor, the manual valve can be installed in the receiver. When a manual shut-off valve (block valve) is used, a manual valve should be installed upstream from the valve, and a pressure relief valve installed upstream from the manual vent valve. These valves are to be designed and installed as to permit maintenance to be performed in a safe manner.
- 1.05 Fluid Level, The compressor should be filled at the factory with the correct amount of fluid. A fluid tag should be provided with the information concerning the initial fill of fluid. Provision for Fluid level monitoring should be provided by sight glass while in operation.
- 1.07 Compressor Rotation: Direction of rotation needs to be embossed on housing for easy identification.
- 1.08 Fan Rotation (Air-cooled only): Direction of rotation needs to be embossed on housing for easy identification.
- 1.09 Acoustic Enclosure The screw Air Compressor set must be placed within an Acoustic cabinet for reducing sound levels to 75 dBA or less as per ISO 2151:2004 Annexure-C measured at a distance of 1mt in free field condition as per PNUROP/CAGI test codes. The Screw compressor should be designed for Ambient Temperature of 45 degree C.

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Technical specification:

The air compressor unit complete with Air Drier & Others accessories must be ready in all respect to meet the requirement.

SI No.	Description	BL Specification	Vendor has to specify	
			Compliance (Yes/No)	Remarks (if any)
1.00	Compressor Unit:			
1.01	Capacity	Not less than 150CFM.		
1.02	Maximum working pressure	7.5 bar		
1.03	Minimum working pressure	Vendor to specify.		
1.04	Compressor type	Rotary, single stage, air cooled, oil flooded electrically driven screw compressor with acoustic enclosure.		
1.05	The cooling system of the air compressor	Air Cooled.		
1.06	Designed Ambient Temp.	0 to 45 degree C.		
1.07	Electric Supply	415 V (50 Hz, 3 Phase AC supply.		
1.08	Area Classification	Non-hazardous / safe		
1.09	Capacity Control	0 and 100%		
1.10	Service	Instrument Air		
1.11	Duty	Continuous		
1.12	Inlet un-loader system	Yes		
1.13	Air intake system	Dry type Air intake filter with 99% efficiency @ 3 micron and above.		
1.14	Spin on oil filter	Yes		
1.15	Air / oil separator element.	Air / oil separator element to ensure oil carry over limited to 3 ppm.		
1.16	Different control valve	Thermal valve.		
		Solenoid valve.		
		Blow down / Drain valve.		
		Water trap Integrated Minimum pressure check valve		
		Pressure safety relief valve.		
1.17	Compressor Enclosure	Patented low sound Enclosure (75 dBA or less).		

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SI No.	Description	BL Specification	Vendor has to specify	
			Compliance (Yes/No)	Remarks (if any)
1.18	Different Indicator	Inlet restriction Indicator on Intake Valve.		
		Oil level indicator.		
1.19	Inlet and outlet connections	Suitable inlet and outlet connections with valves and couplings should be supplied.		
1.20	Cold Box Design:	Electronics are to be placed on the Cold side of the Compressor for increased life of the components.		
1.21	Controls & Instrumentation	Microprocessor Based Controller with power on Indication.		
		Total Running Hours Counter.		
		Package Discharge Air pressure gauge.		
		High Temperature Sensor & Trip.		
		Blow down Solenoid valve.		
		Load/Unload Solenoid Valve.		
		Pressure Transducer.		
		Auto Start/Stop feature.		
		Emergency Stop Switch.		
		Reset Button.		
		On/off selector switch.		
1.22	Protection	Reverse rotation.		
		Over Pressure.		
		High Temperature (Max 100-110 degree C).		
		Motor Overload, short circuit and earth leakage.		
		Low Sump Pressure (Min 15 Psig).		
		Pressure Sensor failure.		
		Temperature Sensor Failure.		
		High voltage.		
		Clogged air intake filter.		
		Pressure regulating valve.		
		High pressure relief valve		
		Phase order and single phasing		

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SI No.	Description	BL Specification	Vendor has to specify	
			Compliance (Yes/No)	Remarks (if any)
1.23	Main Motor	Electrical Motor as per the following specifications:		
		Motor rating not less than 40HP		
		Reverse Rotation		
		Squirrel Cage Induction motor		
		Site and operating conditions - Ambient temperature approximately 45 degree C and dusty environment.		
		Degree of protection - IP 55		
		Type of duty - S1 (Continuous)		
		Method of cooling - TEFC, Air cooled		
		Mounting and frame size - Foot mounted/ Flanged mounted bidder has mention.		
		Frequency - 50 Hz +/- 3 %		
		Phases - 3 Phase		
		Rated voltage - 415 VAC +/- 10%		
		Class of insulation - (Rotor / Stator) - F, temperature rise limited to Class B		
		As per manufacturer's design; to provide rated output.		
		Minimum efficiency - 87% (as per IS 8789)		
		Direction of rotation - same as for compressor.		
		Earthing facility: Earthing stud/earth provision with GI fasteners to be available at two places on the motor foot/body and one inside the terminal box.		
		Make - CG / Bharat Bijlee / Kirloskar / NGEF/ ABB.		
1.24	Motor Protection	Reverse rotation. Normal rotation as per the compressor direction of rotation.		
		Overload and short circuit through thermal overload relay and MCCB.		
		Single Phasing		
		Earth Leakage through CBCT and earth leakage sensing relay		

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SI No.	Description	BL Specification	Vendor has to specify	
			Compliance (Yes/No)	Remarks (if any)
1.25	Lubrication	Suitable Lubricating oil with long life to be used, vendor have to specify the oil grade.		
1.26	Control panel to start / stop and protect the motor and compressor, with the following minimum facilities.	One adequately sized, manually operated three-phase isolation switch to switch on/off all incoming power to the panel. Incoming power to the panel / motor will be connected to this switch.		
		Auto Start / Stop - Motor start / stop are to be controlled by the microprocessor.		
		This is the default motor control scheme, MCCB, contactor and overload relay based, with start/stop command from the Microprocessor controller		
		Indication lamps (LED type): Input power available / Motor Running /Motor Stop / Motor Tripped.		
		Emergency Stop Switch - A push button to instantly stop the motor. This should be "push to operate - turn to reset" type mushroom headed button with lock.		
1.27	Instrumentation	Microprocessor based controller (This shall be ambient Cooled and should not require any special means of cooling).		
		Temperature sensors input.		
		Solenoid valves control (Blow down SV, Load/Unload SV)		
		Pressure Transducer sensor input		
		Package Air Pressure gauge		
		Total running hours counter		
		High discharge Air temperature indication lamp		
		Fluid Filter change indication lamp		
		Air / Fluid separator Element change indication lamp		
		Fluid Filter change indication lamp		
		Air / Fluid separator Element change indication lamp		
		Air intake filter change indication lamp		
		Display of all important parameters on a screen.		

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SI No.	Description	BL Specification	Vendor has to specify	
			Compliance	Remarks (if any)
			(Yes/No)	
1.28	General instruction	Coupling guard: Motor - Compressor coupling should be adequately protected using coupling guard.		
		Earthing studs - All electrical current carrying / consuming equipment or item should be provided with a minimum of two earthing studs.		
		Caution Boards - All current carrying parts (including Control panels / Starters / Push-buttons) should be adequately marked with caution plates / stickers as per IS: 8923 (Warning Symbols for dangerous voltages), or IS 2551 (Danger Notice Plates), as applicable.		
		All power and control cable inside the control panel, from control panel to motor and solenoid valves, indication, meter etc. shall be in the supplier's scope.		
		All cables mentioned above shall be of copper. All Power and control cables should be adequately protected against mechanical damage.		
		Bidder should supply along with the bid, the electrical schematic drawing, clearly marking the motor starting system, the protection system and the indications / safety devices employed.		
		All indication lamps to be LED type of appropriate colour		
		All power connections to the compressor from the external power source will be terminated on the isolator of the control panel		
		Screw Profile 4/6		
		Screw material alloy steel		

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SI No.	Description	BL Specification	Vendor has to specify	
			Compliance (Yes/No)	Remarks (if any)
1.29	Special Conditions (Electrical)	Coupling guard: Motor - Compressor coupling should be adequately protected using coupling guard.		
		Earthing studs - All electrical current carrying / consuming equipment or item should be provided with a minimum of two earthing studs.		
		Caution Boards - All current carrying parts (including Control panels / Starters / Push-buttons) should be adequately marked with caution plates / stickers as per IS: 8923 (Warning Symbols for dangerous voltages), or IS 2551 (Danger Notice Plates), as applicable.		
		All power and control cable inside the control panel, from control panel to motor and solenoid valves, indication, meter etc. shall be in the supplier's scope.		
		All cables mentioned above shall be of copper. All Power and control cables should be adequately protected against mechanical damage.		
		Bidder should supply along with the bid, the electrical schematic drawing, clearly marking the motor starting system, the protection system and the indications / safety devices employed.		
		All indication lamps to be LED type of appropriate colour		
		All power connections to the compressor from the external power source will be terminated on the isolator of the control panel.		
1.30	The preferable makes of the Air Compressor.	ELGI / Chicago Pneumatic/ Atlas Copco /Ingersoll Rand/ Kirloskar Pneumatic or Equivalent reputed make vendor have to mention.		

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SI No.	Description	BL Specification	Vendor has to specify	
			Compliance (Yes/No)	Remarks (if any)
2.00	Air Dryer Unit:			
2.01	Type	<p>Air Dryer (refrigerated type) Suitable Moisture separator to separate condensed moisture from cooled compressed air with auto drain unit controls & standard display.</p> <p>Air Dryer with filters having inlet air capacity not less than 200 cfm at inlet pressure of 7.5 Bar (G), complete with all fittings and accessories. Air dryer would be having following components-</p> <p>Pre-filters and after-filters for compressed air.</p> <p>Changeover Valves and Instrumentation.</p> <p>Control panel for the air dryer.</p> <p>Control panel for the air dryer.</p> <p>Digital dew point meter</p>		
2.02	Dew point meter	<p>Dew point meter at air dryer outlet for knowing the moisture content in final output air after dryer. Dew point meter should be preferably from GE sensing / Panametrics /Honeywell/ equivalent.</p> <p>EIL approved vendor for dew point meter.</p>		
2.03	Air Quality	The compressed air should meet the Instrument Air Quality Standard (ANSI/ISA-S7.0.01-1996) in terms of pressure dew point, particle size, lubricant content and contaminants.		
2.04	Dew point	The pressure dew point as measured at the dryer outlet shall be at least 10 deg C (18 deg F) below the minimum temperature to which any apart of the instrument air system is exposed. The pressure dew point shall not exceed 4 deg C (39 deg F) at line pressure under any condition. Dew point at atmospheric pressure should be - 40 deg C.		
2.05	The preferable makes of the Air dryer	AXAI/CP / PSA nitrogen/same make as compressor or Equivalent reputed make vendor have to mention.		

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Annexure - E

e-Tender No. : GLS/TE19/064 Date: 10/12/19 Due date : 21/12/19 till 6.00 PM

Scope of Work & Price Schedule

1.00 Scope of Work:

- 1.1 The bidders are requested to visit our plant to understand the nature of the jobs/ supply / Site situation/ Service in details before quoting price.
- 1.2 Specific confirmation ensuring uninterrupted supply of spares for all items including accessories for a minimum period of 10 years.
- 1.3 Supplier shall provide 2 (Two) sets each of spare parts list with part nos., quantity recommended for one years of operation.
- 1.4 Supplier shall provide 2 (Two) sets of operating instruction manual ,maintenance manual and service manual covering all the items of screw Air Compressor per compressor unit.
- 1.5 Supplier shall provide one set of drawing showing installation details of the Acoustic enclosure. Wiring diagram for the lighting and other electrical accessories shall be attached inside Acoustic enclosure. The illustrative manuals, information should be supplied with compressor
- 1.6 Vendor has to carried out the Installation & Commissioning work under their supervision, only authorized experienced personnel shall attend site during the Installation & commissioning of the supplied items to give the proper assistance and perform the required checks and tests to ensure that the equipment:
 - Is installed in accordance with design and to provide optimum performance.
 - Operates in accordance with design and to provide optimum performance.
 - Meets all requirements as specified in this tender.
 - Ensure that correct commissioning procedures are followed.
 - Provide assistance with any troubleshooting requirements.
- 1.7 After completion the commissioning work vendor has to submit a proper commissioning report with checklist and handover the equipment to BL.
- 1.8 Test certificate, the supplier shall submit detailed records and certificates of the forgoing tests as well as all relevant test certificates, to the purchaser, along with the delivery of the Air Compressor unit. The certificate / records shall be supplied in quadruplicate and those for electrical equipment shall be endorsed for suitable use in the climatic conditions specified.
- 1.9 Packing & Painting, the packing shall be sufficiently robust to withstand rough handling/transit damage during transportation. Boxes/ packing cases containing electrical equipment shall be water proof lined to prevent transit damage. Loose components shall be packed separately.

Suitable anti rust & heat resistant painting (min. two coats) should be applied in the whole compressor set including the acoustic enclosure.
- 1.10 During guarantee / warranty period, the supplier has to attend and rectify all defects at site in SILVASSA and replace and repair (including supply of spares) all malfunctioning parts free of cost to BL. The Bidder shall have to quote for the list of Spare parts for two years normal operation for each compressor unit. The price of the spares will not be part of offered price of compressor.

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1.11 The bidders shall separately mention charges for installation & commissioning along with their offered item price.

- The Successful Bidder shall commission their supplied items at G&L Silvassa, BL.
- The successful bidder shall have to arrange accommodation at their own cost including to & fro expenditure for their personnel, deputed for commissioning

2.00 Price schedule

SI No.	Supply & Service description	HSN Code	Qty	Unit	Rate per Unit	Amount (Rs.)
2.1	Supply of "Air compressor with Air drier and required accessories". Capacity not less than 150CFM. Maximum working pressure 7.5 bar. Others technical specification as mentioned in Annexure- D. The unit should complete in all respect to meet the specified BL requirement.		1	Set		
2.2	Installation & Commissioning of "Air compressor, Air drier including all required accessories" as supplied. (Supervision only)		1	LS		
2.3	Sub Total value.					
2.4	Packing & Forwarding.					
2.5	Transportation. (Including Loading & unloading & any others cost).					
2.6	GST (as applicable).					
2.7	Total Cost.					

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