

**ASSAM GAS COMPANY LIMITED
P.O. DULIAJAN
DIST: DIBRUGARH
ASSAM, 786602**

No. PNGRB/ODO/TECH/03/08/25

Date: 03.01.2011

NOTICE INVITING TENDER

- 1.1.1 Assam Gas Company Limited (AGCL), Duliajan invites from interested entities to install turn key package of Automated Odorizing System by outlining minimum requirement for design, engineering, manufacturing, assembly, testing, supply, testing at site, and commissioning complete with all auxiliaries and features required for efficient and safe operation as per technical specification in the Upper Assam City Gas Distribution Network.
- 1.1.2 The Tender Documents can be purchased from AGCL or downloaded from the company website www.assamgas.org. Tender Document will be available from 03/01/2011 to 22/01/2011 during 9-00 Hrs to 10-00 Hrs on all working days against request letter and payment of Rs. 5000/- (Five Thousand) only as Tender Fees (Non-transferable) by crossed A/C payee Bank Draft/ Banker's Cheque drawn in favour of Assam Gas Company Limited payable at Duliajan. The Bidders downloading the Tender Document from the website should ensure to submit Tender fee along with the Techno commercial Bid of Tender Documents. Those who have submitted Tender Fees earlier need not submit the fees again.
- 1.1.3 The Tender with 12(Twelve) months validity under single stage two Bid system must be submitted on or before 2.00p.m. (IST) of 24/01/2011. Technical Bids are likely to be opened at 2.30p.m. (IST) on the same day. The sealed Priced Bids shall be opened for short listed Bidders on a later date after evaluation of Techno-commercial Bid. The Tender must be accompanied with an Earnest Money (EMD) of Rs. 50000.00 (Rupees Fifty Thousand) only by Bank Draft/Pay Order drawn on any Nationalized / Scheduled Bank in favour of Assam Gas Company Limited payable at Duliajan, Assam, India, 786602.
- 1.1.4 Sealed Tenders superscribing the Tender No. and Date may be addressed to: The Managing Director, Assam Gas Company Limited, P.O. Duliajan, Dist: Dibrugarh, Assam 786602. For any clarification, interested parties may contact through our E-Mail address info@assamgas.org. AGCL shall not be responsible for non receipt of any Document due to postal delays, transit loss etc. In case the Pre-Bid meeting/ Technical Bid opening cannot be held on the respective dates due to any unavoidable circumstances, it will be conducted on the next working days at the same time.

Managing Director

Tender No. PNGRB/ODO/TECH/03/08/25

TENDER DOCUMENT

FOR

AUTOMATED ODORIZING SYSTEM

IN

UPPER ASSAM CITY DISTRIBUTION NETWORK

CONTENTS

Sl. No.	Particulars	Page No.
SECTION I	INVITATION TO BID	
	1.0 Instructions to Bidders	03
	1.1 Eligibility Criteria	04
	1.2 Language of Bid	04
	1.3 Bid prices	04
	1.4 Bid currency	05
	1.5 Tender Schedules	05
	1.6 Bid Evaluation Criteria	05-06
	1.7 Period of validity of Bids	06
	1.8 Terms & conditions of Bidder	06
	1.9 Bid Security	06-07
	1.10 Signature of Bidders	07
	1.11 Procedure for submission of Bids	08
	1.12 Deadline for submission of Bid	08
	1.13 Opening of Bids by the Owner	08
	1.14 AGCL's right to accept any Bid & to reject any or all Bids	08
	1.11 Award of contract	09
	1.12 Performance guarantee	09
SECTION II	SCOPE OF WORK	
	2.1 Scope of Work	09-10
SECTION III	ODORIZING SYSTEM DESCRIPTION	
	3.1 Operations & Control Philosophy	11
	3.2 Design Philosophy	11
	3.3 Design Basis	11
	3.4 Applicable Standards and Codes	11
	3.5 Electronic Control Unit	11
	3.6 Storage Container	12
	3.7 Odorant Un Loading Pump	12
	3.8 Pneumatic Panel	13
	3.9 Pipe work, valves and fittings	13
	3.10 Hazardous Areas	14
	3.11 Instruments	14
SECTION IV	INSPECTION AND TESTING	14
SECTION V	TESTING AND COMMISSIONING	15
SECTION VI	SPECIAL CONDITIONS OF CONTRACT (SCC)	15
SECTIONVII	DATA DETAILS	15-16

SECTION V	ANNEXURES	
	ANNEXURE-I Mandatory Spares List	17
	ANNEXURE-II Gas Composition, Pressure and Temperature	18
	ANNEXURE-III Datasheet for Odorizing Unit	19-22
	ANNEXURE-IV Bidders Particulars	23-24
	ANNEXURE-V Bid Form	25
	ANNEXURE-VI Schedule of completion of job	26
	ANNEXURE-VII Statement of Deviations from Tender terms & conditions	27
	ANNEXURE-VIII Information regarding Directors	28
	ANNEXURE-IX Time schedule for receipt, submission & opening of Tender	29
	ANNEXURE-X Checklist	30
	ANNEXURE-XI Performance Bank Guarantee	31-33
	ANNEXURE-XII Letter of Authority for attending Bid opening meetings	34 35
	ANNEXURE-XIII Details of the qualifications & experience of personnel deployed for the job	36
	ANNEXURE-XIV Financial Data for last three years Audited Financial Year	37
	ANNEXURE-XV Terms of Payment	38
	ANNEXURE -C1 Bid Forwarding letter	39
	ANNEXURE -C2 Bid Form	40
	ANNEXURE -A1 Bidder Experience/Expertise Profile	41
	ANNEXURE -A2 Declaration of Understanding of requirements	42-43
ANNEXURE -W1- Work Order / Draft Contract	44	
	DISCLAIMER	

SECTION I: INVITATION TO BID

1.0 Instructions to Bidders (ITB)

- 1.0.1 Bids are invited by Assam Gas Company Limited (AGCL) a Govt. of Assam Undertaking and an ISO 9001:2000 Company from interested entities to install turn key package of Automated Odorizing System for its city gas distribution network by outlining minimum requirement for design, engineering, manufacturing, assembly, testing, supply, testing at site, and commissioning of Automated Odorizing System complete with all auxiliaries and features required for efficient and safe operation as per technical specification in the Upper Assam City Gas Distribution Network.
- 1.0.2 The Tender is open to Indian Registered Company specialized in the area of Odorizing System for natural gas.
- 1.0.3 The Bidders can apply for the total job only as per the procedure specified in this Tender.
- 1.0.4 The Tender Documents can be purchased from AGCL or downloaded from the company Website www.assamgas.org. The Bidder should read these conditions carefully and return one copy to AGCL duly signed and stamped by them in token of having read, understood and accepted the conditions.
- 1.0.5 Tender Fee : Tender Document can be purchased from 03/01/2011 to 22/01/2011 during 9-00 Hrs to 10-00 Hrs on all working days against request letter and payment of Rs. 5000/- (Five Thousand) as Tender Fees (Non-transferable) by crossed A/C payee Bank Draft/ Banker's Cheque drawn in favour of Assam Gas Company Limited payable at Duliajan. The Bidders downloading the Tender Document from the website should ensure to submit Tender Fee along with the Techno commercial Bid of Tender Documents.
- 1.0.6 The Bidder is required to submit any question / clarifications required in writing to e-mail id: stamuli_2000@yahoo.com/ saikia_ar@yahoo.com to reach the AGCL at least two weeks in advance of scheduled date of submission of the Bid.
- 1.0.7 Bidders are advised to provide the information sought in the exact format specified. Bids submitted otherwise are liable to be considered non responsive.
- 1.0.8 Bidders shall, as part of their Bid, submit a written power of attorney authorizing the signatory for the Tender.
- 1.0.9 The term, "Bidder" as used in the Tender Documents shall mean the firm or company, to which this Tender Document has been issued. The terms Bidder, Party, Bidder, Vendor, Bidder have been used interchangeably in this Document.

1.1 Eligibility Criteria

- a) While evaluating the Bids, pursuant to Bid Evaluation Criteria as specified, Bidder's past performance shall also be assessed for ascertaining the responsiveness of the Bid. In such a case, the decision of AGCL shall be final and binding on the Bidder.
- b) The Bidder is not put on holiday by any Government Department/Public Sector/AGCL.
- c) Relevant portions, in the Documents submitted in pursuance of eligibility criterion mentioned above, shall be highlighted. If the Bid is not accompanied by all the required Documents, the same would be rejected.
- d) Undertaking for subsequent submission of any of the above Document will not be entertained under any circumstances. However, AGCL reserves the right to seek fresh set of Documents or seek clarifications on the already submitted Documents.
- e) Bidders shall not be hired for any assignment that would be in conflict with their prior or current obligations to other clients or that may place them in a position of not being able to carry out the assignments objectively and impartially.
- f) The Bidder shall certify that
 - i) its proposal is genuine and is not made in the interest of or on the behalf of any undisclosed person, firm, or corporation, and is not submitted in conformity with and agreement of any undisclosed group, association, organization or corporation etc.
 - ii) it has not solicited or induced any other person, firm or corporation to refrain from submitting a proposal.

1.2 Language of Bid

- 1.2.1 The Bid prepared by the Bidder as well as all correspondence/drawings and Documents relating to the Bid must be written in English language, provided that any printed literature furnished by the Bidder may be written in another language so long as accompanied by an ENGLISH translation, in which case, for the purpose of interpretation of the Bid, the ENGLISH translation shall govern.

1.3 Bid Prices

- 1.3.1 The prices quoted by the Bidders shall be inclusive of all taxes, duties, royalties, rights for usage / obligation of proprietary tools etc.
- 1.3.2 The Bidder(s) shall quote for the individual items in figures and words as per the Price Schedule at ANNEXURE-C2 along with a final total cost.
- 1.3.3 The basic prices in Indian rupees should be quoted separately for each set of items given in ANNEXURE-C2 inclusive of every thing. Taxes as applicable should be quoted separately, failing which these are not payable extra.
- 1.3.4 Financial Bids will be evaluated on the basis of total price, i.e. all inclusive, as indicated in ANNEXURE -C2.
- 1.3.5 Prices quoted by the Bidder shall be firm and fixed during the Bidder's performance of the contract. A Bid submitted with an adjustable price quotation will be treated as non-responsive and rejected.

1.3.6 All travel related expenses required for performance of the job shall be borne by the Bidder.

1.4 Bid Currencies

1.4.1 The Bidders shall submit Bid in Indian Currency (Indian Rupees) and receive payment in such currency only.

1.5 Tender Schedules

1.5.1 The sealed Tenders under two Bid system consisting of Techno-commercial un-priced Bid (hereinafter referred as Techno-commercial Bid) and priced Bid shall be received up to 2-00 p.m. of 24/01/2011 at the address mentioned at clause 1.5.3.

1.5.2 The un-priced Bids may be opened at 2-00 p.m. on 24/01/2011 at the address mentioned at clause 1.5.3.

1.5.3 The address for all future communication is : Managing Director, AGCL, Duliajan-786602 Assam, India.

Note: If any date specified above happens to be a holiday in AGCL, the next working day will be implied.

1.6 Bid Evaluation Criteria

The Bidders will be evaluated based on their past experience of handing similar types of jobs, strength of their man power and technical & financial strength of the firm.

1.6.1 General:

- a) The Company or its Principal must be an Indian Registered Company for more than 10 years.
- b) The Company must be ISO 9001:2000 certified.

1.6.2 Technical:

- a) Past experience of services / assignments carried out for oil & gas pipelines – Minimum five years
- b) Past experience of services / assignments of similar nature – Minimum three years.
- c) No. of technically qualified personnel – 20.

1.6.3 Financial:

- a) Should have annual turnover of 1.0 Crore in the last three consecutive years.
- b) Should have positive net worth as per the last audited financial statement.
- c) Should have positive return equity capital as per the last audited financial statement.
- d) Should have implemented a single largest project of over 30.00Lakhs.

1.7 Period of Validity of Bids

- 1.7.1 Bids shall remain valid for 12 (twelve) months from the date of Bid opening prescribed by the AGCL. A Bid valid for a shorter period is liable to be rejected by the AGCL.

1.8 Terms and Conditions of Bidder

- 1.8.1 Printed terms and conditions of the Bidders will not be considered as forming part of their Bids. In case terms and conditions of the contract applicable to this Invitation of Tender are not acceptable to any Bidder, he should clearly specify deviation in his Bid (ANNEXURE - VII). Bidder should cover all deviations with respect to Scope of Work, Technical and Commercial terms and conditions.
- 1.8.2 The Bidder should have experience of dealing with entities in the area of natural gas transmission pipelines as well as petroleum product pipelines and shall have provided similar type of service to entities of repute in the past 3 years. Documentary Proof for same has to be attached as per ANNEXURE -A1.

1.9 Bid Security / Earnest Money Deposit (EMD)

- 1.9.1 The Bidder shall furnish, as a part of its Bid, Bid Security for an amount of Rs. 50,000.00 (Fifty Thousand) only by Bank Draft/Pay Order drawn on any Nationalized / Scheduled Bank in favour of Assam Gas Company Limited payable at Duliajan. Bid Security must indicate the Bid Document number for which the Bidder is quoting. This is essential to have proper co-relation at a later date.
- 1.9.2 The Bid Security is required to protect the owner against the risk of Bidder's conduct, which will warrant the security's forfeiture.
- 1.9.3 The Bid Security shall be valid for 06(six) months beyond the validity of the Bid as specified in ITB.
- 1.9.4 AGCL shall not be liable to pay any bank charges, commission or interest etc., on the amount of Bid Security.
- 1.9.5 Any Bid not secured in accordance with above, is liable to be rejected by the owner as non-responsive.
- 1.9.6 The Bid Security, without any interest accrued will be refunded as follows :
- I. In the case of those unsuccessful Bidders, the Bid Security will be refunded without any interest accrued within three months (90 days) of the acceptance of Tender by AGCL.
 - II. In case of successful Bidder accepting the Order and furnishing the Contract Performance Guarantee.

1.9.7 The Bid Security shall be forfeited.

- a) If a Bidder withdraws his Bid during the period of Bid validity.
- b) In the case of a successful Bidder, if the Bidder fails to
 - i) accept the Award Order or
 - ii) furnish Performance Guarantee or
 - iii) accept correction of errors or
 - iv) submits forged Documents

Note : The Bid Security must be submitted along with the Techno-commercial Bid only.

1.10 Signature of Bidder

- 1.10.1 The Bid must include the name and place of business of the person or persons making the Bid and must be signed and sealed by the Bidder with his usual signature on each page. The names of all persons signing should also be typed or printed below the signature.
- 1.10.2 Bid by a partnership firm must be furnished with full names of all partners and be signed with the partnership name, followed by the signature(s) and designation(s) of the authorized partner(s).
- 1.10.3 Bids by Corporation / Company must be signed with the legal name of the Corporation / Company by the President, Chairman, Managing Director or by the Secretary or any other person or persons authorized to Bid on behalf of such Corporation / Company in the matter.
- 1.10.4 A Bid by a person who affixes to his signature the word 'President', 'Managing Director', 'Secretary', 'Authorised representative' or any other designation without disclosing his principal will be rejected.
- 1.10.5 Satisfactory evidence of authority of the person signing on behalf of the Bidder shall be furnished with the Bid.
- 1.10.6 The Bidder's name stated on the proposal shall be the exact legal name of the firm.
- 1.10.7 Bids not conforming to the above requirements of signing may be disqualified.'

1.11 Procedure for submission of Bids

- 1.11.1 The Bids shall be submitted in a sealed cover which must contain two separate sealed envelopes comprising "Techno-commercial" and "Priced Bid", superscribing the wording "Techno-commercial Bid" respectively. Please note that prices should not be indicated in the Techno-commercial part of the Bid. All the covers must mention the Tender number.
- 1.11.2 On the day of Bid opening, only the Techno-commercial Bids of the Bidders shall be opened. Price Bid of technically qualified Bidder shall be opened at a later date with prior intimation to such Bidders.

- 1.11.3 Each copy of the Tender response shall be a complete Document and must be bound as a volume. Different copies shall be bounded separately and marked distinctively.
- 1.11.4 The Bid shall contain no erasures or overwriting except as necessary to correct errors made by the Bidder. Erasures or other changes, if unavoidable, in the Bid Documents shall be done neatly by cutting the words or lines over the initials of the person signing the Bid else it will be out rightly rejected. Bids, with overwriting or erasure by using the White or any other colour fluid are liable to be rejected.

1.12 Deadline for Submission of Bid

- 1.12.1 Bids must be submitted not later than the date and time specified in the ITB.
- 1.12.2 The AGCL may, at its discretion, on giving reasonable notice by fax or any communication to all prospective Bidders who have been issued the Bid Documents, extend the deadline for the submission of Bids in which case all rights and obligations of the AGCL and the Bidders, previously subject to the Bid due date, shall thereafter be subject to the deadline as extended.

1.13 Opening of Bids by the Owner (AGCL)

- 1.13.1 The owner will open the Techno-commercial Bids in the presence of Bidders/Representatives who may choose to attend the opening of Techno-commercial Bids on the date and time as mentioned in the “Invitation to Bid”. Representative who is present shall sign a register evidencing their attendance. The Bidder’s representative shall furnish a letter of authority from their principals to attend the Bid opening as per ANNEXURE-XII
- 1.13.2 The owner will inform all such Bidders who qualify pursuant to Techno-commercial Bid evaluation. The Bidders may be required to attend price Bid opening at a short notice.
- 1.13.3 Arithmetical errors in the priced Bid shall be rectified on the basis of:

If there is a discrepancy between the unit price and the total unit prices as directed in the price schedule the unit price shall prevail and the total price shall be corrected. If the Bidder does not accept the correction of the errors within the date prescribed by AGCL, the Bid will be rejected. If there is a discrepancy between words and figures, the amount in words will prevail.

1.14 AGCL’s Right to accept any Bid and to reject any or all Bids

- 1.14.1 AGCL reserves the right to accept or reject any or all Bid(s), and to annul the Tender process and reject all Bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder(s) or any obligation to inform the affected Bidder(s) on the grounds for the AGCL’s action.

1.15 Award of Contract

- 1.15.1 Prior to the expiry of the period of Bid validity, AGCL will notify the successful Bidder(s) in writing about acceptance of their Bids. The notification of award will constitute the formation of the Contract.

AGCL reserves the right to award part of the package of the Odorizing System Unit-wise and Location-wise to one or more successful Bidder(s) depending upon priority and requirement.

- 1.) A copy of the work order shall be returned to AGCL as token of acceptance of the contract, as enclosed at ANNEXURE-W1.

1.16 Performance Bank Guarantee

- 1.16.1 On receipt of the notification of award from AGCL, the successful Bidder(s) within 14 days from the date of award of contract, shall furnish the Performance Bank Guarantee valid for 24 (Twenty Four) months, from a Nationalized / Scheduled bank located in India (including an Indian branch of a foreign bank), equivalent to 10% of the basic value of the contract in accordance with the conditions of Contract, in the Performance Bank Guarantee (PBG) format prescribed at ANNEXURE-XI .

- 1.16.2 Failure of the successful Bidder to comply with the requirement shall constitute sufficient grounds for the annulment of the award, in which case AGCL may award the contract to the next lowest evaluated Bidder or call for new Bids.

1. The bank guarantee shall be extended for such further period as may be necessary to cover the defect liability period of 1 (one) year after the actual date of completion of work as per contract in respect of any defective services rendered or re-performed.

SECTION II : SCOPE OF WORK

Scope of work shall include the following:

1. Study of the existing metering arrangement in the respective CGS/ Source of Gas supply.
2. Supply, installation, testing, commissioning and maintenance of the Odorizing System at various CGS/ Source of Gas supply complete in all respect.
3. Training of manpower at vendors' factory/premises and site.
4. Periodic maintenance of the Odorizing System.

2.1 Odorizing Unit

The complete Odorizing Unit shall include odorant storage container with odorant, automated loading to containers, automated unloading, Pneumatic Panel, Electronic Control Unit, dosing system with stand by pump & injection units (one working & one stand by), necessary pipe, valves, fittings and instruments.

Scope shall start from connection of natural gas from main gas pipeline with necessary valves, tubing, fittings for operation of system of gas actuation, PRS (if necessary), dosing point connection tubing, valves and fittings to the main gas pipeline. Electrical / Control cables including laying in pipe conduit, connection to control room and locating electrical panel in control room including necessary cabling.

The distance between control room and pipeline is around 20 meter. Vendor shall also quote the per meter price of cabling for regularization if needed.

Vent connection from Odorizing Unit with scrubber, flame arrestor, valves, protection cover and vent stack 3m above the unit top also included in scope of work.

The unit shall be skid mounted and shall be complete with foundation bolts, which shall be grouted by vendor at site.

For blanketing purpose AGCL shall provide gas cylinder arrangement or equivalent.

LOCATION OF ODORIZING UNITS:

SL. NO.	LOCATION /SOURCE OF SUPPLY	NO. OF ODORIZING UNITS
1	AGCL Industrial Area, DULIAJAN	1 No.
2	CANORO Resources, AMGURI	-do-
3	Metering Point, KHORAGHAT	-do-
4	'O' Point, MORAN	-do-
5	Metering Point, SIVASAGAR	-do-
6	Metering Point, NAZIRA	-do-
7	Kushijan Point, DIGBOI	-do-
8	Baghjan, DOOMDOOMA	-do-
9	Mechaki, DOOMDOOMA	-do-
10	Panbari Point, DIGBOI	-do-
11	Anandapara Point, DULIAJAN	-do-
12	Well No. 304, DULIAJAN	-do-
13	Bhekulajan, TENGA KHAT	-do-
14	Bhogpara, DIBRUGARH	-do-
15	Jalan Nagar, DIBRUGARH	-do-
16	Dian, PANITOLA	-do-
17	H.N.E., MAKUM	-do-
18	Digboi Charali, DIGBOI	-do-
19	Tipam, Digboi	-do-
20	Panbari PRS, DIGBOI	-do-
21	Block Tinali PRS, MARGHERITA	-do-

Note :

The numbers indicated are tentative ones, minimum 9 number of units likely to be installed during the year 2011-12.

SECTION III : ODORIZING SYSTEM DESCRIPTION

3.1 Operations & Control Philosophy

The Odorizing System should be designed with minimum operator intervention. The maintenance frequency of the system shall be 18 months or better.

3.2 Design Philosophy

It is anticipated that the natural gas feed composition, flow rate and pressure will be fluctuating. Hence, Vendor should design the Odorizing System with optimum degree flexibility, reliability, and operability to accommodate the varying composition of feed, other unexpected contaminants, flow rate and pressure.

The Odorizing System facilities should consist of standardized modules, which are assembled into a complete system. Each system should be designed in packaged frame, housing, etc.

The design life of the Odorizing System shall be 30 years (minimum).

3.3 Design Basis

The Vendor should prepare the design basis required to meet the demands mentioned in Datasheet and liaise with AGCL to obtain necessary confirmation and approval.

3.4 Applicable Standards and Codes

The design, construction, manufacture, supply, testing and other general requirements of the Odorizing System should be strictly in accordance with the data sheets, applicable codes, and should comply fully with relevant national / international standards, India Electricity Act, Indian Electricity Rules, regulations of Insurance Association of India and factories Act while carrying out work as per this specification.

1	IS 5572	: Classification of hazardous areas (other than mines) for electrical installations.
2	IS 5571	: Guide for selection of electrical equipments for hazardous area.
3	OISD 113	: Classification of areas for electrical installations at hydrocarbon processing and handling facilities.
4	OISD-STD-220	: For restricted circulation.
5	ASME,ASTM, NEC, NEMA, Indian Electricity Rules, Indian Explosives Act.	
6	PNGRB Technical Standards for CGD	

3.5 Electronic Control Unit

The supply to Electronic Control Unit of the Odorizing System will be by an external power source. Power supply (UPS) Single Phase AC.230V + 10%, 50Hz_+5%.

Note :

Vendors to confirm that the supplied Electronic Control Unit is suitable for the above power supply and indicate the maximum and minimum tolerable values of voltage for safe operation of Odorizing System. Vendors must include suitable voltage conditioning system in their scope to prevent failure from voltage fluctuations.

Electronic Control Unit should have the following specifications as minimum.

- 3.5.1 Electronic Control Unit should be provided with a liquid crystal display (LCD) for ongoing flow monitoring, operation modes etc. It should be easy to read lighted display. Displays must remain active for at least 10 minutes after power failure.
- 3.5.2 Physical design should be of steel body with doors / panels with suitable paint to minimize corrosion and ongoing wear and tear. The electronic Control Unit should have locking arrangement. The panel/cabinet should be suitably designed to accommodate all required electronic equipment.
- 3.5.3 Electronic Control Unit shall be mounted on a wall.
- 3.5.4 The Protection Class of Electronic Control Unit shall be weather proof to IP 65/NEMA4.
- 3.5.5 Odorizing System should not be shut off in case of.
 - i) Power failure
 - ii) Failure of throttling valve/regulator
 - iii) Low Flow
 - iv) Failure of any field instruments (Transmitters, temp. element, etc.)
- 3.5.6 The Electronic Control Unit should be capable of storing odorizing data and such data should be downloaded frequently into another portable computer to store the data. In order to meet the above requirement, 2 nos. of RS232/RS485 Serial Communication ports shall be included in the Electronic Control Unit. One Port will be utilized for Portable Computer and another port will be utilized for future SCADA application. For this application, Vendor shall include in the scope all relevant software, together with the license, compatible to updated software provision.
- 3.5.7 All Signal / Control Cable shall be armored type.
- 3.5.8 The control unit should be complete with internal pulse generator, pulse scalar and automatic/manual change over switch.

3.6 Storage Container

Vendor shall supply 500 liters capacity storage containers for Odorant. Container should have positive pressure of Inert Gas, if required, the storage container should be made up of SS304 tanks complete with inlet, outlet, level indication local and low level alarm switch with hooter, Y strainer at outlet, suitable odorant filters, non return valves, pressure regulation valves with safety and alarm, pressure relief valve along with manual gas vent valve. Vent should be only for Inert gas. No Odorant shall be vented in any case. Vent should have neutralizer container in case if there is a possibility of odorant being vented out.

3.7 Odorant Un Loading Pump

Pneumatic operated pump to unload Odorant to storage containers. System shall have necessary arrangement for Gas Blanketing or equivalent to avoid leakage of odorant to atmosphere.

Suitable Provision of locating odorant drum close to Container and easy handling of pump with flexible hose along with necessary valves, tubes, Hypo chloride solution for neutralizing, fire extinguisher, Mask, gloves, goggles, & eye washer for safety etc. to unload odorant to any of the storage containers to be provided.

3.8 Pneumatic Panel

All transmitters & temperature element should be intrinsically safe as per IEC 79-11 and solenoid valves, switches and related junction boxes should be flame proof as per IEC 79-11. Flying leads from any of the instrumentation items are not acceptable.

The Odorizing System shall be shipped in fully assembled condition. The equipment shall operate on gas. The equipment shall be located close to line pipe. Vendor shall take necessary connection from existing pipe; provide necessary valves and pressure reducing station for operation of Odorizing Unit. Exhaust from the system should be vented 3 meters above equipment level with valves, flame arrestor and rain protection cover.

Electrical point shall be available at control room. Vendor shall provide and lay electrical and control cables from control room to the equipment through underground GI pipes.

Vendor should include in his scope provision of base frame to be embedded in the foundation. Vendor shall supply base frames in separate packing, if required.

The pneumatic panel shall have cabinet and it shall be installed in the Hazardous area and with necessary safety measures. If compressed air is required the Bidder should arrange the same.

3.9 Pipe work, valves and fittings

Pipe work should be designed, tested and installed to ensure its safe operation at the worst conceivable conditions of flow, pressure and temperature.

All high pressure tubing work should be of ½” OD SS fully annealed (Bright annealed)seamless conforming to ASTM-A-269,SS-316. The piping/tubing shall be of Sandvik make. Valves & fittings shall be of Parker or Swagelok make.

The system should be able to demonstrate that the fittings are properly tightened. Wherever possible, valves and control devices should incorporate the same end connector system. The number of fittings used should be minimized.

Vendor should also include a flexible hose required standard of 5 meters length for connection of the Odorizing Unit with the odorant/loader along with necessary quick release coupling at ends.

The vendor should ensure that personnel assembling the pipe work should be competent in the system employed.

The preferred valve types for isolation are ¼ (quarter) turn ball valves. Such valves shall have similar materials as of the tube they are attached to. Ball valves must be of good quality and be appropriately selected for frequent use. Ball seats must be suitable for natural gas operation of the gas composition indicated.

Valves and fittings subject to corrosion must be either inherently resistant, or be coated with a corrosion inhibiting paint or surface treatment.

End connections including fittings & Valves shall be supplied with the unit. Details are to be confirmed at the time of delivery.

3.10 Hazardous Areas

The Vendor should specify the hazardous area in accordance with the IS 5572.

All electrical equipment cabling and earthings should be appropriate for the zone in which it is fitted, and all cables passing from the hazardous to safe area should be equipped with appropriate barriers where necessary.

All instruments should be suitable for an area classification of “Class 1, Division 2, Group D as per NEC” OR “Zone 2, Group IIA/IIB as per IS/IEC”.

All Odorizing Unit mounted transmitters & temperature element should be intrinsic safe as per IEC 79-11 and solenoid valves, switches and related junction boxes should be flame proof as per IEC 79-1. All other special equipments/Instruments, where intrinsic safety is not feasible or available, should be flame proof as per IEC 79-1. Flying leads from any of the instrumentation items are not acceptable.

The Electronics of the Odorizing Unit shall not be open and shall be provided within a suitable enclosure.

A complete dossier of all electrical equipment will be provided showing area classification and certification of equipment.

3.11 Instruments

Vendor shall provide all instruments like Temperature Gauge, Pressure Gauge, differential pressure gauge, level switches, flow switches, etc. for duty condition in respective areas as per requirement of the system.

SECTION IV : INSPECTION AND TESTING

At Vendor's work :

The following activities shall be covered under inspection :

- a) Review of Q.A. Documents
- b) Review of Calibration certificates for Odorizing Unit, transmitters, gauges and all instruments.
- c) Review of all statutory certificates.
- d) Review of Area classification compatibility of all the items including bought out items.
- e) Review of NDT reports.
- f) Review of bought out sub-assemblies/major components, test/inspection certificates.
- g) Dimensional checks as per approved drawing and data sheets.

- h) Witness the Odorizing Units while tested to demonstrate the functioning of all the components and controls.

SECTION V : TESTING AND COMMISSIONING

The Equipment shall be tested at factory prior to shipment to site, FAT (factory acceptance test) should be carried out to demonstrate the functioning of all equipment trips and control system.

AGCL should be given 2 weeks notice of the date and location of the tests so that the equipment may be witnessed if desired.

Upon delivery to the site, all the equipment should be assembled in a complete system. Thereafter, final site acceptance test would be carried out. Such tests should be witnessed and signed by the Company representative. The vendor should rectify and replace all defects, faults, failures, etc. and all costs should be borne by vendor. The costs should include accommodation, traveling, expenses, etc.

All pipelines of the Odorizing Unit should be pneumatically tested to 1.5 times the design working pressure. Such pressure shall be held for 4 hours and be witnessed by AGCL.

SECTION VI : SPECIAL CONDITIONS OF CONTRACT

- The Vendor shall provide civil foundation drawing within two weeks of placement of order. In case the requisite information regarding foundation and other fixing inserts etc. as required for proper installation of equipment is not indicated by the vendor within two weeks from the placement of order, such facility shall be arranged/provided by the Vendor at their own cost.
- The Vendor shall not vary the scope of work as detailed in Tender and approved drawings without written permission of owner.
- The supply and commissioning of spares is included in the scope of Vendor. Vendor shall furnish a separate list along with offer as enclosed at ANNEXURE-I.
- The Vendor shall take responsibility of free maintenance and refilling of the odorant for at least two years from the date of acceptance of each unit by AGCL. The mandatory spares required for the period will be supplied along with the unit free of cost. Only the cost of odorant will be borne by the Company.
- The Vendor will impart necessary training to manpower at site to enable them to handle the Odorizing System effectively and independently.

SECTION VII : DATA DETAILS

After the placement of FOI, & kick off meeting will be held at such date and at such place, as may be mutually agreed upon between the Vendor and the purchaser. The intent of this kick off meeting should be to discuss/clarify various requirements and finalize the modus operandi for execution of the contract within the scheduled delivery period.

7.1 Immediately within 2 weeks after placement of order the following Documents have to be submitted

- a) Process and Instrument Diagram.
- b) Bill of Material. The bill of Material should indicate all items, quantity of all items, their part nos. and make.
- c) General Arrangement Drawing of the Odorizing Unit giving overall dimensions along with details of inlet gas termination including X,Y,Z co-ordinates with respect to centre of Odorizing Unit or any reference and erection / shipping weight.
- d) Data Sheet of Odorizing Unit along with Leaflets/catalogues for all major items.
- e) Wiring Diagram of Electronic Control Unit.
- f) Detailed foundation drawing of the Odorizing Unit for casting foundation giving load pattern etc.
- g) Shop test procedure.
- h) A Complete electrical Dossier and zone drawings of the Odorizing Unit, all certification for all components used within the hazardous areas should be provided.

7.2 Along with supply

- a) Operation and maintenance manuals – 3 sets all in original pertaining to Odorizing Unit. The instruction manual should describe in details the construction and recommended procedure for maintaining, operating and trouble shooting of the Odorizing Unit. It should also include cross-sectional drawings, exploded views of all spare parts along with part nos., quantity installed per Odorizing Unit. The manual should provide detailed catalogues for all bought out items.
- b) 3 sets of hard copies and 1 set of soft copy in CD-ROM for all the approved drawings and Documents shall be included along with supply.
- c) Mechanical and electrical installation drawing including interconnection.
- d) Test certificates and catalogues of all major components like valves, mass flow meter, tubing etc.
- e) Calibration certificates for all measuring and protection devices (e.g. Pressure transducer, pressure gauges, etc.).
- f) Test records of mechanical running, performance test.
- g) Complete wiring diagram of Odorizing Unit.
- h) Software (logic diagram) of Odorizing Units on CD-ROM with suitable communication Protocol for communication with Odorizing Unit in order to change Odorizing Unit parameters, if required.
- i) Certificates from statutory authorities confirming suitability of design / construction of all electrical and electronic items for use in hazardous area. In case of foreign supply, the Vendor should get all certificates endorsed by the concerned statutory authorities, Govt. of India within one month of delivery of Odorizing Units at site.

ANNEXURE-I

MANDATORY SPARES LIST

Sl. No.	Description	Qty.
1		
2		
3		
4		

ANNEXURE-II

1.0 Gas Composition

The following gas composition will be considered for design of the Odorizing System.

Component	Natural Gas
Methane	90%
Ethane	6%
Propane	1.2%
I-butane	0.15-0.20%
N-butane	0.15-0.20%
I-pentane	0.005-0.010%
N-pentane	0.001-0.003%
Nitrogen	0.15%
Carbon dioxide	2%

**ANNEXURE-III
(1 of 4)**

Datasheet of Odorizing Unit (Common)

S.No.	Technical Data	Customer Requirement
1	Operating Principle	Microprocessor based Automatic Dosing System with Double Acting Electronic Proportioning Pump.
2	Odorant Injection Rate	To be adjusted automatically proportional to flow rate using 4 to 20mA signal from Metering Device.
3	Design Gas Temperature (Max.)	50°C
4	Design Gas Temperature (Min.)	0°C
5	Operating Temperature	Open atmospheric condition ambient temp. of 5 to 35°C
6	Odorant Concentration Rate	5PPM – 20PPM or equivalent. The device should have provision to set within the range. Actual use of odorant to be monitored using a separate device.
7	Gas Odorant	Ethyl Mercaptan / THT (Tetrahydrothiophene)
8	Power Supply	230V, AC, 50 Hz, Single phase
9	Pneumatic Panel with Cabinet Electrical Components in Hazardous Area	The system to be installed in vulnerable/ hazardous area and the cabinet must be safe and explosion proof.
10	No. of Injection Units Required	2 (one working and one stand by unit)
11	Electronic Control Unit	To be installed in safe area with RS232/RS485 communication port, printer port and provision for remote connectivity and must lockable. Software to configure the odorizing system. Battery backup for memory to maintain configuration data in the

		event of power failure.
	Protection Class	IP 65/NEMA4/E Ex G4.
	Display	LCD Display
	Operating Modes	Manual / Automatic
12	Storage Containers with Level Gauge and Level Switch	500 liters – 1no.
13	Emergency provision	To be provided to continue odorization automatically if main Odorizing System stops due to power/control unit failure.
14	Maintenance Frequency	18 months or better
15	System Features	There should be Solar Power Panel with twenty days battery back up or UPS as required to enable the system to continue dosing at constant flow rate in case of power failure
16	Material Specification for Storage Container	SS-304
17	Nitrogen Blanketing System / Equivalent	Required
18	Overall Size of Skid / Weight	Required
19	Activated Carbon Filter	1 No.
20	Proportioning Pump	1 No.
21	Measuring Burette (Stainless & Glass)	1 No.
22	Odorant Filter (Installed in the suction pipe before the proportioning pump)	1 No.
23	Odorant Filter(Installed in the suction pipe before the odorant tank)	1 No.
24	Pressure Regulator Valve installed at the Odorant Tank	1 No.
25	Flow Switch (For flow monitoring of the dosing pump, installation in the injection pipe)	1 No.
26	Level Switch Type (Installation in Odorant Tank)	1 No.

27	Option Card (Installed in the Control Unit)	1 No.
28	Odorant Loader odorant side with NRV, Quick release Coupling & Stopcock	1 No.
29	Odorant Loader pressurization side NRV, Quick release Coupling & Stopcock	1 No.
30	Installation Flexible Pipe for Odorant and Gas (5m length with suitable quick relief coupling)	To be installed in a cabinet

Datasheet of Odorizing Unit (Individual)

SL. NO.	SOURCE/LOCATION OF SUPPLY	Main Header Manifold Size(mm)	Avg. Flow Rate (SCMH)	Max Flow Rate (SCMH)	Operating Pressure (kg/cm ² g)	Design Pressure (kg/cm ² g)
1	AGCL Industrial Area, DULIAJAN	50	470	550	10.50	15.00
2	CANORO Resources, AMGURI	200	6250	9250	8.50	13.00
3	Metering Point, KHORAGHAT	100	1340	2000	4.00	6.00
4	'O' Point, MORAN	50	522	653	7.00	10.5
5	Metering Point, SIVASAGAR	50	1125	1500	2.00	4.8
6	Metering Point, NAZIRA	50	560	750	2.00	4.8
7	Kushijan Point, DIGBOI	200	6200	6700	8.00	12.00
8	Baghjan, DOOMDOOMA	110	650	1650	4.00	4.8
9	Mechaki, DOOMDOOMA	100	1650	2500	12.00	15.00
10	Panbari Point, DIGBOI	110	375	412	3.00	4.8
11	Anandapara Point, DULIAJAN	50	375	437	2.00	4.8
12	Well No. 304, DULIAJAN	50	168	206	2.00	4.8
13	Bhekulajan, TENGAKHAT	300	16650	25000	8.50	13.00
14	Bhogpara, DIBRUGARH	300	1333	2500	10.00	15.00
15	Jalan Nagar, DIBRUGARH		1206	1250	3.50	4.8
16	Dian, PANITOLA	200	750	1333	8.50	13.00
17	H.N.E., MAKUM	200	4460	6250	10.00	15.00
18	Digboi Charali, DIGBOI	150	1740	2600	12.00	15.00
19	Tipam, Digboi	63	125	188	2.00	4.80
20	Panbari PRS, DIGBOI	110	800	1140	2.00	4.8
21	Block Tinali PRS, MARGHERITA	110	110	150	2.00	4.8

ANNEXURE-III
(4 of 4)

Datasheet of Odorant Un Loading Pump

TECHNICAL DETAILS

MODEL	
LIQUID	SUITABLE WITH SS
TEMPERATURE	AMBIENT
DENSITY/SP. GRAVITY	1(ASSUMED)
VISCOSITY	1-10cP
HEAD	15meter
MAX. FLOW RATE	95 Lpm
MATERIAL OF CONSTRUCTION	
TUBE	SS
SHAFT	SS
BEARING	PURE CARBON
IMPELLER	ETFE
MECH SEAL	NONE
ACCESSORIES	
DRUM ADAPTER	PP
WALL BRACKET (LOCAL)	MS(Powder Coated)
HOSE CONNECTION 1" (LOCAL)	SS 316

HOSE CONNECTION:

Hose connector with wing nut for connecting the hoses to the pump tube shall be used.

EMISSION PROOF DRUM ADAPTER

To prevent emission of dangerous gases when using a drum pump, an emission proof drum adapter shall be used.

**ANNEXURE-IV
(1 of 2)**

Enclose with Techno – Commercial Bid

Bidder Particulars

1. Name of the Bidder :
2. Address of the Bidder
3. Name & address of the Officer
to whom all reference shall be
made regarding this Tender enquiry:

Telephone :

Mobile :

E-mail :

Fax :

Witness :

Signature

Name

Designation

Company Address

Date

Company Seal

Signature

Name

Designation

Company Address

Date

(Enclose with Techno – Commercial Bid)

Tender No. :

Bidder Particulars

Sl.No.	Item Response of Bidder	
1.	Name of the Bidder (Company)	:
2.	Location of Offices	:
3.	No. of years it has been in existence	:
4.	No. of years it has been in business with oil & gas pipelines, proof of same to be attached.	:
5.	Turnover of the Company during last three Consecutive years, Rs.	:
6.	Net Profit of the Company during last Financial year, Rs.	:
7.	Total Number of Employees on Payroll	:
8.	Total Number of technical and Functional Support staff	:
9.	ISO Certification	:
10.	Indicate the name of CGDs where worked on such services in the last 3 years. Documentary proof for the same to be attached.	:
11.	Whether Worked with any Govt. Departments / PSUs in last 5 Years for such works, proof of same to be attached.	:

(Enclose with Techno – Commercial Bid)

Tender No. :

Bid Form

Date :

Managing Director
Assam Gas Company Limited
Duliajan – 786602

Dear Sir,

Having examined the Bidding Documents of Tender No., we, the undersigned, offer to provide our services for Odorizing System with the said Bidding Documents for sums as may be ascertained in accordance with the Schedule of Prices provided in the Commercial Bid.

We undertake, if our Bid is accepted, to complete the work of Odorizing System offered to us within implementation schedule mentioned in our Techno commercial offer. If our Bid is accepted we will obtain the Guarantee from a Scheduled bank equivalent to 10% of the total contract value and will remain valid for 24 months after the expected schedule date of completion of work as per the Contract.

We agree to abide by the validity period of 12(Twelve) months from the date fixed for Bid opening under Section I of the Invitation to Bid and it shall remain binding upon us and may be accepted at any time before the expiration of that period. Until a formal contract is prepared and executed, this Bid, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

We understand that you are not bound to accept the lowest or any Bid you may receive. We also understand that you have the right to vary the quantities and / or split the total order among the Bidders.

Dated _____ day of _____ 2011 _____

Signature & Seal

(in the Capacity of)

Only Authorised to sign Bid for an on behalf of

(Enclosed with Techno – Commercial Bid)

Tender No. :

Schedule of completion of the job for Odorizing System:

Sl. No.	Name of Work	Completion time in Days
1.	Study of the existing metering arrangement in all Source/Location of Gas Supply.	
2.	Supply, installation, testing and commissioning of the Odorizing System complete in all respect.	
	(i) AGCL Industrial Area, DULIAJAN	
	(ii) CANORO Resources, AMGURI	
	(iii) Metering Point, KHORAGHAT	
	(iv) 'O' Point, MORAN	
	(v) Metering Point, SIVASAGAR	
	(vi) Metering Point, NAZIRA	
	(vii) Kushijan Point, DIGBOI	
	(viii) Baghjan, DOOMDOOMA	
	(ix) Mechaki, DOOMDOOMA	
	(x) Panbari Point, DIGBOI	
	(xi) Anandapara Point, DULIAJAN	
	(xii) Well No. 304, DULIAJAN	
	(xiii) Bhekulajan, TENGAKHAT	
	(xiv) Bhogpara, DIBRUGARH	
	(xv) Jalan Nagar, DIBRUGARH	
	(xvi) Dian, PANITOLA	
	(xvii) H.N.E., MAKUM	
	(xviii) Digboi Charali, DIGBOI	
	(xix) Tipam, Digboi	
	(xx) Panbari PRS, DIGBOI	
	(xxi) Block Tinali PRS, MARGHERITA	
3	Training of manpower at site.	

We do hereby adhere to the time period for completion the jobs mentioned above by filling up this annexure.

Signature :

Date :

**ANNEXURE-VII
(1 of 1)**

(Enclose with Techno – Commercial Bid)

Ender No. :

Statement of Deviations from Tender Terms and Conditions

Sl.No.	Reference to terms and conditions	Deviation in the offer	Brief reason
1			
2			
3			

Signature

Date

(Enclosed with Techno – Commercial Bid)

Tender No. :

Information regarding Directors

1. Name of Bidder :
2. Address :
3. Name(s) of Directors :
(Please enclose list)

Sl.No.	Question	Response
1	Whether the proprietor of the Bidder, if a proprietorship, is a Director or is related to any Member of AGCL ?	
2	Whether any partner or member of the firm of the Bidder, if a partnership, is a Director or is related to any Member of AGCL ?	
3	Whether any of the Directors of the Company of the Bidder, if a Company , is a Director or is related to any Member of AGCL ?	

Signature of Bidder _____

Name _____

Address _____

Date : _____

Place : _____

ANNEXURE-IX
(1 of 1)

Time Schedule for Receipt, Submission and opening of Tender

Item	Date and Time
Pre Bid Meeting	On
Bid Submission	Up to
Bid opening – Techno commercial Hrs on
Price Bid Opening	

ANNEXURE-X
(1 of 1)

(Enclose with Techno – Commercial Bid)
Tender No. :(Page 1 of 1)
Checklist

Checklist		
Sl.No.	Item	Check Yes/No.
1.	Bidder's particulars furnished as per Annexures - 1	Yes/No.
2	Have you furnished Bid Form (Annexure – 2) ?	Yes/No.
3	Have you completed Annexure – 3 ?	Yes/No.
4	Have you filled in Annexure – 4 indicating clearly deviations from Tender terms and conditions ?	Yes/No.
5	Have you completed Annexure – 5 ?	Yes/No.
6	Have you filled the Annexure – 6 ?	Yes/No.
7	Have you signed and sequentially numbered each page of your Bid ?	Yes/No.
8	Submission of price Bids as per formats given in Annexure – C2	Yes/No.
9	Have you submitted the format of price Bids (C1, C2) without mentioning prices along with un-priced Bid ?	Yes/No.
10	Have you Submitted Annexure (A1) ?	Yes/No.
11	Have you Submitted Annexure (A2) ?	Yes/No.
12	Have you understood clearly Annexure (T1) ?	Yes/No.
13	Have you understood clearly Annexure (W1) ?	Yes/No.

**ANNEXURE-XI
(1 of 3)**

(Enclose with Techno-commercial Bid)

Tender No. :

PERFORMANCE BANK GUARANTEE

(PERFORMANCE SECURITY) – UNCONDITIONAL

(TO BE STAMPED IN ACCORDANCE WITH STAMP ACT)

REF

Bank Guarantee No. :

Date :

To

Managing Director
Assam Gas Company Limited
Duliajan – 786602
Assam, INDIA

Dear Sirs,

In consideration of the AGCL (herein referred to as the OWNER which expression shall unless repugnant to the context or meaning thereof include successors, administrators and assigns) having awarded to M/s. _____ having principal office at _____ (hereinafter referred to as the “Bidder” which expression shall unless repugnant to the context or meaning thereof include their respective successors, administrators, executors and assigns) the work of _____ by issue of OWNER Order No. _____ - dated _____ and the same having been accepted by the Bidder resulting into CONTRACT for _____ as per above referred Order having a total value of _____ for the work of _____ and the Bidder having agreed to provide a Contract Performance guarantee for faithful performance of the aforementioned Contract to Owner.

We (bank) _____ having Head Office at (hereinafter referred to as the Bank, which expressly shall, unless repugnant to the context or meaning thereof include successors, administrators, executors and assigns) do hereby guarantee to undertake to pay the OWNER on demand any and all moneys payable by the Bidder to the extent of 10% (ten percent) of the Contract Prices as aforesaid at any time up to _____ without a reference to the Bidder. Any such demand made by OWNER on bank shall be inclusive and binding notwithstanding any difference between OWNER and Bidder discharges this guarantee. OWNER and Bidder or any dispute pending before any Court, Tribunals, arbitrators or any other Authority. The bank undertakes not to revoke this guarantee during its currency without previous consent

**ANNEXURE-XI
(2 of 3)**

of OWNER and further agrees that the guarantee herein contained shall continue to be enforceable till the OWNER discharges this guarantee. OWNER shall have the fullest liberty without affecting in any way the liability of the BANK under this guarantee from time to time to extend the time for performance by Bidder of the under this guarantee from time to time to extend the time for performance by Bidder of the afore mentioned CONTRACT, OWNER shall have the fullest liberty, without affecting this

Guarantee, to postpone from time to time the exercise of any power vested in them or of any right which they might have against Bidder, and to exercise the same at any time in any manner, and either to enforce to forebear to enforce any covenants contained or implied, in the aforementioned CONTRACT between OWNER and Bidder or any other course of or remedy or security available to OWNER. The BANK shall not be released of its obligations under these presents by any exercise by OWNER of its liability with reference to the matters aforesaid or any of them or by reason or any other acts of omission or commission on the part of ONWER or any other indulgence shown by OWNER or by any other matter or this whatsoever which under law would, but for this provision, have the effect or relieving the BANK. THE bank ALSO AGREES THAT owner AT ITS OPTION SHALL BE ENTITLED TO ENFORCED THIS Guarantee against the Bank as a Principal debtor, in the first instance without proceeding against Bidder and notwithstanding any security or other guarantee that OWNER may have in relation to the Bidder's liabilities.

Notwithstanding anything contained herein above our liability under this Guarantees restricted to AND it shall remain in force up to and including _____ and shall be extended from time to time for such period as may be desired by the Bidder on whose behalf this Guarantee has been given. Therefore, we hereby affirm that we are guarantors and responsible to you on behalf of the Bidder up to a total amount of (amount of guarantees in words and figures) and we undertake to pay you, upon your first written demand declaring the Bidder to be in default under the contract and without caveat or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the _____ day of _____ 2012/2013 we have power to issue this guarantee in your favour under memorandum and Article of Association and the undersigned has full powers to do so under the Power of Attorney/Resolution of the Board of Directors dated _____ accorded to him by the bank.

Dated: The _____ day of _____ 2011

WITNESS :

1.

2.

(SIGNATURE)

(SIGNATURE)

BANK RUBBER

(NAME)

STAMP (NAME)

(OFFICIAL SEAL) Designation with bank stamp

Plus Attorney as per Power of Attorney/Resolution Board of Directors

Date :

**ANNEXURE-XII
(1 of 1)**

(Enclose With Techno-Commercial Bid)

Performa of Letter of Authority for Attending Techno-Commercial Opening and Priced Bid Opening

No. Date :

Managing Director
Assam Gas Company Limited
Duliajan 786602
Assam, INDIA

Attn. :

Dear Sirs,

Wehereby authorize following representative(s) to attend the Techno-commercial Bid opening and priced Bid opening against your Bid Document No.....for.....(item Name).....

- 1. Name & DesignatonSignature.....
- 2. Name & DesignatonSignature.....

We confirm that we shall be bound by all and whatsoever our representative(s) shall commit.

Yours faithfully,

Signature.....

Name & Designaton

For & on behalf of.....

Note :

This Letter of Authority should be on the letter head of the Bidder and should be signed by a person competent and having the power of attorney to bind the Bidder.

**ANNEXURE-XIII
(1 of 1)**

Details of qualification & experience of personnel deployed for the job

Sl.No.	Name	Qualification	Experience	Special Achievement

We confirm that the above mentioned officials shall be working for the assignment for which the Bid is being submitted.

Yours faithfully,

Signature.....

Name & Designaton

For & on behalf of.....

**ANNEXURE-XIV
(1 of 1)**

Enclosed With Techno-Commercial Bid)

FINANCIAL DATA FOR LAST THREE YEARS AUDITED FINANCIAL YEAR

1. Current assets
2. Current Liabilities
3. Working Capital (1-2)
4. Net Worth
Owners funds (Paid up share capital and Free Reserves & Surplus)
5. Profits before taxes
6. Return on Equity ($\frac{5}{4}$) x 100
 - Attached are copies of the audited balance sheets, including all related notes and income statement for the last Audited Financial year, as indicated above, complying with the following conditions :
 - All such Documents reflect the financial situation of the Bidder and not sister or parent companies.
 - Historic financial statements must be audited by a certified accountant
 - Historic financial statements must be complete, including all notes to the financial statement.
 - Historic financial statements must correspond to accounting periods already completed and audited (no statement for partial periods shall be accepted).

TERMS OF PAYMENT

Pending completion of the whole work, provisional progressive payments for the part of work executed by the Contractor shall be made by AGCL on the basis of work completed and certified by AGCL representative as per the agreed milestone payment schedule and the percentage breakup given below .

Contractor / Vendor shall submit invoices to AGCL's representative on regular basis in the manner as instructed by AGCL. Each invoice will be supported by Documents acceptable to AGCL and certified by AGCL representative. Payments made by owner to the contractor for any part of the work shall not deem that AGCL has accepted the work

Sl.No.	Details	Payment Schedule
1	Supply of Odorizing Units with accessories	90%
2	Installation and Commissioning or within four months from the date of delivery of Odorizing Units, whichever is earlier	10%

**ANNEXURE-C1
(1 of 1)**

(Enclosed with Priced Bid)

Tender No.

To
Managing Director
Assam Gas Company Limited
Duliajan 786602
Assam, INDIA

Sir,

We declare as hereunder

- 1) We enclosed herewith the complete Priced Bid as required by you. This includes :
 - i) Bide Letter (ANNEXURE -C1)
 - ii) Price Schedule (ANNEXURE – C2)
 - iii) Performa for Bank Guarantee for Contract Performance(As format acceptance only)
 - iv) Work Order / Contract Form (As format acceptance Only)
- 2) We agree to aBide by our offer for a period of 24 (twenty four) months from the date fixed for opening of the Tenders and that we shall remain bound by a communication of acceptance within that time.
- 3) We have carefully read and understood the terms and conditions of the Tender and the conditions of the Contract applicable to the Tender and we do hereby undertake to provide the services as per these terms and conditions. The deviations from the above terms and conditions are only those mentioned in ANNEXURE-VII
- 4) Certified that the Bidder is a sole proprietorship firm and the person signing the Tender is the sole proprietor / constituted attorney of the sole proprietor
Or
a partnership firm, and the person signing the Tender is a partner of the firm and he has authority to refer to arbitration disputes concerning the business of the partnership by virtue of the partnership agreement/by virtue of general power of attorney.
Or
a company and the person signing the Tender is the constituted attorney. (Delete whatever is not applicable). The person authorized to sign the Tender Document should invariably duly attest all corrections/deletions.
- 5) We do, hereby, undertake that until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and placement of letter of intent awarding the Contract, shall constitute a binding contract between us.

Dated : The _____ day of _____ 2011

Signature of the Bidder
Details of enclosures :
Address
Telephone
Fax

(Enclose with Price Bid)

Tender No.....

Name of the Company :

Price Schedule for

* All quoted prices are in Rupees

SL. NO.	SOURCE/LOCATION OF SUPPLY	Quantity	Rate	Amount (Rs.)	Amount in Words (Rs.)
1	AGCL Industrial Area, DULIAJAN				
2	CANORO Resources, AMGURI				
3	Metering Point, KHORAGHAT				
4	'O' Point, MORAN				
5	Metering Point, SIVASAGAR				
6	Metering Point, NAZIRA				
7	Kushijan Point, DIGBOI				
8	Baghjan, DOOMDOOMA				
9	Mechaki, DOOMDOOMA				
10	Panbari Point, DIGBOI				
11	Anandapara Point, DULIAJAN				
12	Well No. 304, DULIAJAN				
13	Bhekulajan, TENGAKHAT				
14	Bhogpara, DIBRUGARH				
15	Jalan Nagar, DIBRUGARH				
16	Dian, PANITOLA				
17	H.N.E., MAKUM				
18	Digboi Charali, DIGBOI				
19	Tipam, Digboi				
20	Panbari PRS, DIGBOI				
21	Block Tinali PRS, MARGHERITA				

Sl. No.	Gas Odorant (Ethyl Marcaptan/THT Tetrahydrothiophene)	Unit	Rate

Signature

Seal

-40-

**ANNEXURE-A1
(Page 1 of 1)**

**(Enclosed With Techno-Commercial Bid)
Tender No.....**

Bidder Qualification/Experience/Performance / Expertise Profile

Sr. No. Item – All the responses should be furnished along with Documentary evidence.

- 1.**
- 2.**
- 3.**
- 4.**
- 5.**

Note : Please attach details and other relevant Documents.

**(Enclosed With Techno-Commercial Bid)
Tender No.....**

Declaration of Understanding of requirements

Item	Response
1. Participated in the pre-Bid conference	
2. Bidder has studies the Documents related to the work during the pre-Bid Conference.	

We hereby confirm that we have participated in the pre-Bid conference and confirm that we understand the technicalities and functionalities and would be able to provide satisfactory service for the same.

Signature

Date

ANNEXURE-W1

Work Order / DRAFT CONTRACT

ARTICLES OF AGREEMENT made on this _____ day of _____ of two thousand and _____ BETWEEN _____ of _____ of the one part and the Assam Gas Company Limited (hereinafter called “AGCL”) of the other part.

WHEREAS the AGCL has engaged the party of the first part as a Bidder and the party of the first part has agreed, to provide the solution for Odorizing System to the AGCL on the terms and conditions hereinafter contained.

NOW THESE PRESENTS WITNESS and the parties hereto respectively agree as follows :

1. The party of the first part shall submit himself to the orders of the AGCL and of the officers and authorities under whom he may from time to time be placed by the Company.
2. The party of the first part shall complete the work within a period of(.....) days commencing from _____
3. No TA/DA/Travel expenses shall be admissible to the party of the first part for any journeys in connection with the consultancy assignment.
4. The party of the first part shall not disclose to any unauthorized person any information and data that may be supplied to him by the AGCL or by any other organization, under the directions of the AGCL. All such Documents shall be the property of the AGCL or any information that may have come to his knowledge directly or indirectly by virtue of the assignment.
5. The party of the first part undertakes that this assignment shall not be in conflict with his prior or current obligation to other clients nor shall it place him in a position of not being able to carry out the assignments objectively and impartially.
6. In case of any default on the part of the party of the first part in completion of the work within the time schedule agreed to between the parties as herein above, the party of the second part shall be at liberty to get the work completed from any other agency at the risk and cost of the party of the first part.
7. In case of any differences or disputes between the parties arising out of this Agreement, it shall be referred for arbitration of a person nominated by the AGCL.
8. The payment of fee to the party of first part shall be made by the AGCL after the deduction of tax at source in accordance with law for the time being in force and at the end of completion of the assignment.
9. The AGCL reserves its right to foreclose, terminate or cancel the engagement of the Bidder without assigning any reasons. In such cases party of the first part shall be paid remuneration after taking into consideration the part of work completed prior to such foreclose, termination or cancellation of the engagement as may be decided by the AGCL, and the decision of the AGCL shall be conclusive and binding. The remuneration so fixed and paid shall be deemed to be the final payment in such cases.

10. In respect of any matter for which no provision has been made in this agreement, the provisions contained in the general instructions of the Government on the subject of engagement of Bidders shall apply.

In witness whereof the party of the first part and _____ to the AGCL on behalf of the AGCL have hereto put their hands the day and the year first above written.

Signed by _____ the party of the first part in the presence of _____

Signed by _____ the said to the AGCL in the presence of _____

Managing Director

Duliajan

Dated :

DISCLAIMER

Bidders should ensure that Bidding Document is complete in all respects. In the event that the Bidding Document or any part thereof is mutilated or missing, the Bidder shall notify Assam Gas Company Limited (AGCL) immediately at the following address.

Managing Director
Assam Gas Company Limited
Duliajan 786602
Assam, INDIA.

In the event such written notice is not received at the aforementioned office within seven (7) days from the date of issue of the Bidding Document to the Bidder, the Bidding Documents received by the Bidder shall be deemed to be complete in all respects. No extension of time shall be granted under any circumstances to any Bidder for submission of its Bid on the grounds that the Bidder did not obtain a complete set of the Bidding Documents. AGCL makes no representation or warranty, express or implied, as to the accuracy, correctness and completeness of the information contained in the Bidding Documents.