



**BHAGYANAGAR GAS LIMITED
(A JOINT VENTURE OF HPCL & GAIL)**

BID DOCUMENT FOR

**TENDER FOR CARRYING OUT INTERNAL PIPING OF
COMMERCIAL CUSTOMERS IN HYDERABAD &
VIJAYAWADA FOR A PERIOD OF ONE YEAR.**

**UNDER LIMITED DOMESTIC
COMPETITIVE BIDDING**

Bid Document No.: BGL/451/2018-19

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**Tender for Carrying Out Internal Piping of Commercial
Customers in Hyderabad & Vijayawada For a Period of One
Year.**

Bid Document No. BGL/451/2018-19

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SECTION – 7

SPECIAL CONDITIONS OF CONTRACT


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1.0 **GENERAL**

- 1.1 Special conditions of contract (SCC) shall be read in conjunction with the General Conditions of Contract (GCC). Schedule of rates, specifications of work, drawings and any other document forming part of this contract wherever the context so requires.
- 1.2 Notwithstanding the sub-division of the document into these separate sections and volumes, every part of each with and into the contract so far as it may be practicable to do so.
- 1.3 Where any portion of the GCC is repugnant to or at variance with any provisions of the special conditions of contract, then unless a different intention appears, the provision(s) of the special conditions of contract shall be deemed to override the provision(s) of GCC only to the extent that such repugnancies of variations in the special conditions of contract are not possible of being reconciled with the provisions of GCC.
- 1.4 Wherever it is stated in this Bidding Document that such and such a supply is to be effected or such and such a work is to be carried out, it shall be understood that the same shall be effected/carried out by the contractor at his own cost, unless a different intention is specifically and expressly stated herein or otherwise explicit from the context. Contract value (also referred to as Contract price) shall be deemed to have included such cost.
- 1.5 The materials, design and workmanship shall satisfy the applicable relevant Indian Standards, the job specifications stipulate requirements in addition to those contained in the standard codes and specifications, these additional requirements shall also be satisfied. In the absence of any Standard/ Specifications/codes of practice for detailed specifications covering any part of the work covered in this Bidding on the contractor.
- 1.6 In partial modification to Clause No.21.0 of GCC the following shall apply:
In case of contradiction between Indian or other applicable Standards, General Conditions of Contract, Special Conditions of Contract, Specifications, drawings, Schedule of Rates, the following shall prevail in order of precedence:
- i) Letter of acceptance alongwith statement of Agreed variations.
 - ii) Fax / Letter of Intent / Fax of Acceptance
 - iii) Schedule of Rates as enclosures to letter of acceptance
 - iv) Job / Particular Specifications
 - v) Drawings
 - vi) Technical / Material Specifications
 - vii) Special Conditions of Contract.
 - viii) General Conditions of Contract
 - ix) Indian Standards
 - x) Other Applicable Standards

It will be contractor's responsibility to bring to the notice of Engineer-in-charge any irreconcilable conflict in the contract documents before starting the work(s) of making the supply with reference which the conflict exists.

In the absence of any specifications covering any material, design of work(s) in the same shall be performed / supplies / executed in accordance with Standards Engineering Practice

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as per the instructions / directions of the Engineer-in-charge, which will be binding on the Contractor.

- 1.7 The requirements of any statutory body and authority like Indian boiler regulation, Tariff Advisory Committee, Chief controller of Explosives, etc, shall govern where these are more stringent than the requirements specified above.
- 1.8 Owner's representative means authorized representative of Owner (i.e. M/s BGL) and / or Consultant.

2.0 TERMS OF PAYMENT

Pending completion of the whole works, provisional progressive payments for the part of work executed by the contractor shall be made by BGL on the basis of said work completed and certified by the BGL's representative as per the agreed milestone payment schedule and the percentage break-ups given below.

Contractor shall submit his invoices to the BGL's representative monthly in the manner as instructed by EIC. Each invoice will be supported by documentation acceptable to BGL and certified by the BGL's representative. Payments made by BGL to the contractor for any part of the work shall not deem that the BGL has accepted the work.

The Contractor has to raise the RA bill on monthly basis and payment shall be made as per the following terms :-

For SOR item 1,2,3,4,5,6,7,8,9

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| 90% | After completion of supply, Installation, painting, Pneumatic Testing, Purging, Conversion, Commissioning of customer and drawing submission as per the scope of work. |
| 10% | Submission of all documents, material reconciliation and closure of contract |

3.0 DURATION OF CONTRACT: -


One Year from the date of the award of the contract.

4.0 TIME FOR MOBILISATION

The mobilization period shall be 15 days from the date of issue of Letter of Intent or Work order whichever is earlier. **The CONTRACTOR should bear in mind that "time is the essence of the contract"**. Request for revision of construction time will not be considered.

5.0 DEFECT LIABILITY PERIOD:

The CONTRACTOR shall guarantee the installation/WORK for a period of 18 months from the date of completion of WORK or 12 months from the date of issue of completion certificate whichever is later as certified by the EIC. Any damage or defect that may arise or lie undiscovered at the time of issue of Completion Certificate, connected in any

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way with the equipment or materials supplied by him or in the workmanship, shall be rectified or replaced by the CONTRACTOR at his own expense as deemed necessary by the EIC or in default, the EIC may carry out such works by other work and deduct actual cost incurred towards labour, supervision and materials consumable or otherwise plus 100% towards overheads (of which the certificate of EIC shall be final) from any sums that may be then or at any time thereafter, become due to the CONTRACTOR.

6.0 CONTRACT PERFORMANCE GUARANTEE: -

1. Bidder will provide Performance Guarantee @ 10% of order value within 30 days of receipt of FOA/ WO from the Owner. The contract performance bank guarantee shall be valid 03(three) months beyond the expiry of Defect Liability period(DLP) . The Performance Guarantee shall be in form of either Demand Draft or Banker’s Cheque or irrevocable Bank Guarantee and shall be in the currency of Contract (issued by any Indian Scheduled bank or a branch of an International Bank situated in India and registered with Reserve Bank of India as Scheduled Foreign Bank).

However, in case of Bank Guarantee from banks other than the Nationalized Indian bank, the bank must be a commercial bank having net worth in excess of Rs. 100 Crores or equivalent US Dollars and **a declaration** to this effect should be made by such commercial bank either in the bank guarantee itself or separately on its letterhead.

Performance Guarantee for 10% of order value shall be excluding taxes & duties.

BGL shall not be liable to pay any bank charges, commission or interest on the same.

- 2 . Failure of the successful bidder to comply with the requirement of this clause shall constitute a breach of contract, cause for annulment of the award, forfeiture of the bid security and any such remedy the Owner may take under the Contract pursuant to GCC-Goods.
- 3 There is no exemption to MSEs including SSI units from submission of Security Deposit/ Contract Performance Bank Guarantee (CPBG).




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SECTION 8

SCOPE OF WORK

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1. GENERAL & PROJECT DESCRIPTION

1.1 Introduction

Bagyanagar Gas Ltd (BGL) is a Joint Venture company between GAIL (India) Limited and Hindustan Petroleum Corporation Ltd. (HPCL). BGL has been setup to provide CNG (Compressed Natural Gas) as fuel to vehicles through CNG filling stations and PNG (Piped Natural Gas) to Industrial, Commercial & Domestic Sectors in Hyderabad and adjoining areas

BGL through this tender is seeking contractors to carry out Internal Piping of Commercial customers for CGD project in Hyderabad, Vijaywada & Kakinada.

1.2 Defination

| | |
|---------------|---|
| OWNER/ CLIENT | Bagyanagar Gas Ltd (BGL) |
| TPIA | Third Party Inspection Agency to be appointed by BGL at Site. |
| QAP | Quality Assurance Plan |
| EIC | Engineer – in – charge |
| VENDOR | The person(s), firm, company, organization from whom Client / Contractor procures materials |
| CONTRACTOR | The person, firm or company to whom the CONTRACT is addressed |


1.3 The main scope of this specification comprises of Supply Installation, testing and commissioning of Internal piping of Commercial customers and associated works for CGD network projects in Hyderabad & Vijayawada GA

1.3.1 Special Condition of Contract shall be read in Conjunction with the General Conditions of Contract, specification of work, Drawing and any other documents forming part of this contract wherever the context so requires.

1.3.2 Notwithstanding the sub-division of the documents into these separate sections and volumes every part of each shall be deemed to be supplementary to and complementary of every other part and shall be read with and into the contract so far as it may be practicable to do so.

1.3.3 Where any portion of the General Condition of Contract is repugnant, to or at variance with any provisions of the Special Conditions of Contract, unless a different intention appears, the provisions of the Special Conditions of Contract shall be deemed to over-ride the provisions of the General Condition of Contract and shall to the extent of such repugnancy, or variations, prevail.

1.3.4 The materials, design and workmanship shall satisfy the relevant INDIAN STANDARDS, the TECHNICAL SPECIFICATIONS contained herein and CODES referred to. Where the technical specification stipulate requirements in addition to those contained in the standard codes and specifications, these additional requirements shall also be satisfied.

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- 1.3.5 Wherever it is mentioned in the specifications that the CONTRACTOR shall perform certain work or provide certain facilities, it is understood that the CONTRACTOR shall do so at his cost and the VALUE OF CONTRACT shall be deemed to have included cost of such performance and provisions, so mentioned.
- 1.3.6 It will be Contractor's responsibility to bring to the notice of Engineer-in-charge any irreconcilable conflict in the contract documents before starting the work(s) or making the supply with reference which the conflict exists.
- 1.3.7 In the absence of any specifications covering any material, design of work(s) the same shall be performed/ supplied/ executed in accordance with Standard Engineering Practice as per the instructions/ directions of the Engineer-in-charge, which will be binding on the Contractor.

1.4 **Project Description**

Project Details

A brief description of the proposed facilities are given below: -

1.4.1 **Hyderabad/ Vijayawada/ Kakinada:**

Pipe Diameter : 15 mm to 100 mm
 Pipe Material : IS 1239/ Heavy class MS pipe of suitable grade
 Design Pressure/ Rating: 0.3 - 4 kg/cm²(g)

1.4.2 **Work tendered**


Work tendered in this bid package pertains to CARRYING OUT INTERNAL PIPING OF COMMERCIAL CUSTOMERS & ASSOCIATED WORKS FOR CGD NETWORK PROJECTS IN HYDERABAD, VIJAYWADA & KAKINADA with associated facilities.

The Contractor is to broadly carry out but not limited to the following activities: -

- 1.4.3 Supply Installation, Welding, fabrication of approved CS/MS pipe including ball valves, fasteners, flanges up to customer appliance including painting, pneumatic testing, burner conversion and commissioning.
- 1.4.4 Conversion (LPG to PNG)/ Replacement of Burner and associated equipment as per customer requirement at site.
- 1.4.5 Designing and Isometric drawing submission to BGL.


2.0 **SCOPE OF WORK**

The scope of work shall generally be, but not limited to the following: -

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2.1 Procurement

- 2.1.1 CONTRACTOR shall procure and supply all the materials other than OWNER supplied materials, required for permanent installation of pipe. All equipment, materials, components etc. shall be suitable for the intended service. Approved vendor list has been indicated in the bid package for various items. For items which are not covered in the vendor list, CONTRACTOR shall obtain OWNER's prior approval for the vendor.
- 2.1.2 CONTRACTOR shall procure all materials, components, equipment, consumable etc. required for successful completion of the pipeline system. CONTRACTOR shall also procure and supply spares required for pre-commissioning and commissioning/ start up as recommended for all items supplied by him as per specifications provided in the bid package. Where no specification is available in the contract, the same shall be prepared by the CONTRACTOR based on the piping material specification and shall be subject to OWNER's approval.
- 2.1.3 Material take-off with complete description of size, rating, material, thickness and specifications.
- 2.1.4 Only single offer shall be provided by the bidder fully complying to specifications/ drawings/ requirements for OWNER's review and approval. CONTRACTOR shall provide for inspection of the items at vendor's works by the OWNER/ OWNER's REPRESENTATIVE or by a reputed inspection agency and shall submit inspection reports for OWNER's clearance.
- 2.1.5 Stores management including receipt, warehousing, preserving the material in good condition, issue of material to construction site, reconciling/ handing over surplus material to OWNER for OWNER supplied items.
- 2.1.6 Carryout proper documentation of inspection and quality assurance programmes for all equipment and bulk materials duly approved by OWNER. CONTRACTOR shall maintain an accurate and traceable listing of procurement records for the location, quality and character of all permanent materials in the Project.
- 2.1.7 CONTRACTOR shall immediately report to the OWNER of all changes which will affect material quality, and recommend any necessary corrective actions to be taken.
- 2.1.8 Submit periodic reports highlighting hold ups and slippages, if any, to OWNER and take remedial measures.
- 2.1.9 Interact with authorities such as Sales Tax, Octroi, Excise, Customs etc. as necessary and arrange for transportation of the materials under his scope of supply to site.
- 2.1.10 All purchase requisitions including purchase orders shall be approved by OWNER/ OWNER's REPRESENTATIVE.
- 2.1.11 Compliance with vendor's and supplier's instructions and recommendations for transportation, handling, installation & commissioning.

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2.2 Construction

2.2.1 General

2.2.1.1 All construction works shall be carried out as per “Approved for Construction” drawings, procedures, specification and applicable codes and standards. Any changes at site shall also need prior approval from the OWNER and revision of drawings. Construction drawings will be submitted by the Contractor in a phased manner for owner’s approval in accordance with the procurement and construction plan prepared and furnished by contractor & agreed by Owner.

Owner will take minimum 7 working days from the date of submission of the documents / drawings submitted by the contractor for owner’s comments / approval.

2.2.1.2 Providing schedules, progress reporting, organisation chart at construction site, quality assurance plan and developing quality control procedures, as per requirements indicated elsewhere in the bid package.

2.2.1.2 Coordination and supervising the work of contractor employees.

2.2.1.3 Transportation of appropriate materials and taking delivery of Company supply materials, store, worksite, intermediate storage points, maintaining and operating an adequate material control procedure at worksite.

2.2.1.4 CONTRACTOR shall provide complete details of manpower, equipment etc. to be deployed. Mobilising and providing all equipment, manpower (skilled and unskilled), consumable and other resources etc. for each spread as required for the execution of the complete job defined herein and thereafter demobilising the same upon completion of work.

2.2.1.5 All incidental and associated works and any other works not specifically listed therein but are required to be carried out to complete entire work related to piping.


2.2.2.1 Testing

A) Testing

Pressure testing will be carried out with compressed air. Compressor will be provided by Contractor for testing purposes and is to be included in the rates. The test pressure shall be as per standards ASME 31.3, and there shall be no unaccountable pressure loss during the test period.

Measuring instruments shall have been calibrated (not more than 1 year) and their accuracy and sensitivity confirmed. For testing of piping, calibrated pressure gauges of suitable range shall be supplied by the contractor. The pressure gauges shall be calibrated from time to time as desired by Engineer-in-Charge. All testing shall be witnessed and approved by the EIC or his delegated representative.

After Successful completion of testing and certified by EIC the tested length of pipe line shall be kept on a positive pressure as per standards with Nitrogen/Air.

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2.2.2.2 Other Works

- Obtaining all necessary approvals and work/safety permits, as applicable, for performing the work.
- Any other work not specifically listed herein but required for the construction of the terminals and making it ready for the operation.

3.0 SCOPE OF MATERIAL SUPPLY

3.1 Material to be Supplied by Company as Free Issue

Owner's scope of supply shall be as specified in particular Job Specification, Technical Specifications, Schedule of Rates & various other parts of the Bidding Document.

Free Issue Materials shall be issued to the Contractor from the designated store(s) of Owner. Contractor shall be responsible for lifting the free issue materials from Owner's storage point(s) and transporting the same to work site(s) at his own cost.

BGL's storage point for free issue material of this project shall be located in Hyderabad, Vijayawada.

Contractor shall also return materials after completion of work to BGL's designated store in Hyderabad City, Vijayawada, as directed by BGL / Engineer-in-charge.

The following free issue item will be supplied by the owner.


Unless otherwise specified material supply, Meter without adaptors, Regulator/ Metering skid as per the Customer requirement.

3.1.2 Conditions for issue of Company Supplied Material

Contractor shall prepare and submit Material Issue Vouchers to enable stage wise issue of materials. All materials shall be issued for incorporation in permanent works only and shall not be used for any temporary or ancillary works without the written consent of Engineer-in-charge. These materials shall be issued to the contractor from the Owner's storage points. Contractor shall be responsible, at this own cost, for lifting of the materials from Owners issue points, measuring, weighing, loading, unloading, transportation and return of materials to designated storage points. Contractor shall also be responsible for constructing covered go downs with adequate supports and clearances for safe storage of materials.

Every month the contractor shall submit an account for all the materials issued by the owner in the pro forma prescribed by the Engineer-in-charge. On completion of the work, the contractor shall submit materials appropriation statement for all materials issued by Owner.

- 3.1.2 All materials issued by the OWNER to the CONTRACTOR shall be preserved against deterioration and corrosion. Any damages/losses suffered on account of poor or improper storage while under CONTRACTOR'S custody and non-compliance with the requirements stipulated herein shall be considered as losses suffered due to wilful negligence on the part

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of the CONTRACTOR and he shall be liable to compensate the OWNER, for the losses suffered, at penal rates as elaborated elsewhere in the bid document.

3.1.3 The free issue material shall not be procured from any other source by contractor.

3.1.4 Various equipment's/ materials intended for the installation will be received by OWNER in unpacked, skidded, crated, packed or loose condition and will be stored in the OWNER warehouses & open yards. In general, material will be issued to the CONTRACTOR in "as-received" condition. It will be the CONTRACTOR'S responsibility to draw, load and transport all materials from Company's designated place (s) of issue to the point of installation.

3.1.5 All materials supplied by the OWNER shall be duly protected by the CONTRACTOR at his own cost with appropriate preservative like primer/lacquer coating, grease etc, if required.


3.2 Issue and Reconciliation of Material

Every month, the contractor shall submit an account for all materials issued by Owner in the Performa prescribed by the Engineer-in-charge. On completion of the work, the contractor shall submit "Material Appropriation Statement" for all materials issued by the owner in the Performa prescribed by the Engineer-in charge. All unused scrap materials shall be the property of the Owner and shall be returned by the Contractor category-wise at his cost to the Owner's designated store. In case the contractor fails to do so/or exceeds the limits of allowances specified above for scrap/serviceable materials. then the recovery for such quantities not returned by the Contractor will be done at the penal rate i.e,125% of landed cost at the time of final bill/closing of contract by Engineer-in-charge. The recovery shall be affected from the contractor's bill(s) or from any other dues of the Contractor to the Owner. Contractor shall be responsible for the adjustment /weightment/measurement of the surplus materials to be returned to the store. Contractor shall also be responsible for suitable segregation of returned materials in to separate stakes of serviceable and scrap materials.

3.3 Material to be supplied by Contractor

The procurement and supply, in sequence and at the appropriate time, of all materials and consumables required for completion of the work as defined in this Bid document except the materials specifically listed under para 3.1 above, shall be entirely the CONTRACTOR'S responsibility and item rates quoted for the execution of the CONTRACT shall be inclusive of supply of all these materials. The material to be supplied by the Contractor shall be as per specification and preferred make as indicated in Appendix-I or duly approved / recommended for use by BGL. The materials will be, but not by way of limitations, as follows:-

All materials except what is under Owner's scope of supply (Free Issue Materials) as mentioned in Clause No. 3.1 above, and required for successful completion of works in all respects shall be supplied by the Contractor and the cost of such supply shall be deemed to have been included in the quoted price without any additional liability on the part of Owner.

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The following indicative materials to be supplied by the contractor **as required** to complete the work. The contractor shall submit the Test Certificates of all materials used at site. **The materials shall be procured as per the standards specified in the PNGRB Regulations for Technical Standards and Specifications including Safety Standards for City or Local Natural Gas Distribution Networks and BGL standards.**

3.3.1 Material under Contractor's Scope of Supply

| SN | Item | Material | Specification |
|----|--------------------|--|---|
| 1 | Piping | Mild steel(M.S.) or Carbon Steel (C.S) | ASTM A106 Gr.B / IS1239 Class 'C' |
| 2 | Isolation Valve | Brass/Carbon Steel (C.S) | ASTM A 352 Gr. WCB or equivalent |
| 3 | Pipe Fittings | Mild steel(M.S.) or Carbon Steel (C.S) | ASTM A 234 WCB Sch.40 |
| 4 | Flanges | Mild steel(M.S.) or Carbon Steel (C.S) | ASME B 16.5, ASTM A 105, WNRF # 150 |
| 4 | Flexible Hose | Stainless Steel(S.S) | SS braided bellow pipe |
| 5 | Gasket | Asbestos | ASME B 16.20 for metallic gasket/16.21 for non-metallic gasket, SS Spiral wound 314 and copper asbestos fiber (CAF) |
| 6 | Welding Electrodes | | E6010, E6013 or E7018 |

B) **Bhagyanagar Gas Limited Sticker**
300x300mm Colour (As per instruction of EIC)

C) **Burner Installation and Conversion:**

- a) **Various "G Type" Burner**
- b) **Various "T Type" Burner**
- c) **Various "V Type" Burner**

4.0 DOCUMENTS, SPECIFICATION & STANDARDS

- 4.1 Owner shall furnish tender purpose drawings as listed in content of Volume-II of II of the tender document and other typical standard drawings attached with respective technical specifications enclosed with Volume-II of II of the tender document. Contractor shall prepare detail engineering drawing, bill of materials and all construction drawings and submit to Owner representative for approval prior to start of the job / any procurement.
- 4.2 Contractor shall prepare isometric drawings, any specific detail drawings (if required by Engineer-in-charge) & bill of materials and submit the same for Owner's approval/ record.
- 4.3 No construction small or big shall be carried out without proper construction / standard drawings duly approved by Owner's Engineers at HO or site office or Owner's representative duly authorised to do so.



4.4 After Completion of construction & commissioning of pipeline system, Contractor shall incorporate all the correction in drawings, prepare and issue the drawings as listed below to Owner as final submission of drawings.

4.5 **Specifications**

The work shall be carried out by CONTRACTOR strictly in accordance with the specifications enclosed in Volume-II & II of this document.

5.0 **RESOURCES FACILITIES**

5.1 **Recruitment of Personnel by Contractor**

The Contractor shall not recruit personnel of any category from among those who are already employed by the other agencies working at the sites but shall make maximum use of local labour available.

5.2 **Construction Power Supply**

No power will be provided by the owner. It should be the responsibilities of the contractor to arrange power at his own cost.

5.3 **Land for Residential Accommodation**

Owner shall not provide any land for residential accommodation of contractor's staff and labour.

6.0 **PROJECT SCHEDULING & MONITORING**

The following schedules/documents/reports shall be prepared and submitted by the Bidder/Contractor for review/approval at various stages of the contract.

6.1 **Along with Bid**

a) **Time Schedule**

The Completion Time Schedule for the work (including mobilization period) as per Appendix-I to Invitation for bid, PART-A of Tender in all respect, from the date of issue of telex/telegram/letter/Fax of Intent.

b) **Scheduling & Monitoring System**


The Bidders should describe their system of Project Scheduling and monitoring, the extent of computerization, level of detailing, tracing methodology etc. with the name of computer package and sample outputs.

6.2 **After the Award of Contract**

a) **Overall Project Schedule**

The Contractor shall submit within 1 week of Fax of Intent, a sufficiently detailed overall Project Schedule in the activity network form, clearly indicating the major milestones, interrelationship/ interdependence between various activities together with analysis of critical path and floats.

The contractor has to start the construction activity within 15 days from the date of issue of Job Order by the BGL Engineer – In – Charge, and if contractor fails to start the activity within the stipulated period the BGL reserves the right to complete the work by another contractor on the risk and cost of the original contractor.

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- b) **Progress Measurement Methodology**
The contractor is required to submit within 1 week of award of WORK, the methodology of progress measurement of sub-ordering, manufacturing/ delivery, sub- contracting construction and commissioning works and the basis of computation of overall services/physical progress informed. Owner reserves the right to modify the methodology in part or in full.
- c) **Functional Schedules**
The contractor should prepare detailed functional schedules in line with network for functional monitoring and control and submit scheduled progress covers for each function viz. ordering, delivery and construction.

6.3 Review Meetings


The Contractor shall present the programme and status at various review meetings as required.

- a) **Weekly Review Meeting**
- Level of Participation : Contractor's Site in charge & BGL Job Engineers.
- Agenda : a) Weekly planning v/s actual achieved in the past week & planning for next week.
b) Remedial Actions and hold up analysis.
c) Client query/ approval.
- Venue : Site Office
- b) **Monthly Contractor Performance Assessment Review Meeting**
- Level of Participation : Senior Officers of BGL and Contractors.
- Agenda : a) Progress Status/ Statistics
b) Completion Outlook
c) Major hold ups/slippages
d) Assistance required
e) Critical issues
f) Client query/ approval
- Venue : BGL Office/ Site at the discretion of Owner

CPAR below 50% continue in three months "One chance Letter" will be issued to contractor, if still performance not improved and get below 50% score in CPAR BGL right to terminate the contract.

6.4 Progress Reporting Performa

- A) **Monthly Progress Report**
This report shall be submitted on a monthly basis within 10(ten) calendar days from cut-off date, as agreed upon covering overall scenarios of the work. The report shall include, but not limited to the following:
- a) Brief Introduction of the work.
- b) Activities executed/ achievements during the month.

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- c) Schedule versus actual percentage progress, commissioning and Overall and quantum wise status & purchase orders against schedule.
- d) Area of concern/ problem/ hold-ups, impacts and action plans.
- e) Resources deployment status.
- f) Annexures giving status summary for drawings.
- g) Procurement status for items to be supplied by Contractor.

B) Weekly Reports

The report will be prepared and submitted by the Contractor on weekly basis and will cover following items :

- a) Activities programmed and completed during the week.
- b) Resource deployed men and machines.
- c) Quantities achieved against target in construction
- d) Construction percentage progress schedule and actual.

C) Daily Site Plan

- a) Activity programme for the day
- b) Progress of the previous day and commutative progress.
- c) Manpower & machinery deployed.

7.0 CONSTRUCTION


OWNER reserves the right to inspect all phases of CONTRACTOR's operations to ensure conformity to the SPECIFICATIONS. Owner will have Engineers, Inspectors or other duly authorised representatives, made known to the CONTRACTOR present during progress of the WORK and such representatives shall have free access to the WORK at all times. The presence or absence of a OWNER's representative does not relieve the CONTRACTOR of the responsibility for quality control in all phases of the WORK. In the event that any of the WORK being done by the CONTRACTOR or any SUB-CONTRACTOR is found by OWNER's representatives to be unsatisfactory or not in accordance with the DRAWINGS, procedures and SPECIFICATIONS, the CONTRACTOR shall, upon verbal notice of such, revise the work in a manner to conform to the relevant DRAWINGS, procedures and SPECIFICATIONS.

7.1 Rules & Regulations

CONTRACTOR shall observe in addition to Codes specified in respective specification, all National and Local Laws, Ordinances, Rules and Regulations and requirements pertaining to the WORK and shall be responsible for extra costs arising from violations of the same.

7.2 Procedures

Various procedures and method statements to be adopted by CONTRACTOR during the construction as required in the respective specifications shall be submitted to OWNER in due time for APPROVAL. No such construction activity shall commence unless approved by OWNER in writing.

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7.3 Field Inspection

CONTRACTOR shall have at all times during the performance of the WORK, a Competent Superintendent on the premises. Any instruction given to such superintendent shall be construed as having been given to the CONTRACTOR.

7.4 Welder Qualification (for Welding joint)

Welders shall be qualified in accordance with the API 1104 and other applicable specifications by the CONTRACTOR at their expense. The butt weld test pieces of the welder qualification test shall meet the visual and the radiographic test requirement as per API 1104. Qualification tests shall meet the visual and the radiographic test require CONTRACTOR shall submit welder qualification test report and obtain express the welder qualification test reports and obtain express approval, before commencement ofwork.

7.5 Erection and Installation

The CONTRACTOR shall carry out required supervision and inspection as per quality Assurance plan and furnish all assistance required by the OWNER in carrying out inspection work during this phase. The OWNER will have engineers, inspectors or other authorised representatives present who are to have free access to the WORK at all times. If an OWNER's representative notifies the CONTRACTOR's authorised representative not competent for his work, or recommends action regarding compliance with the SPECIFICATIONS, the CONTRACTOR shall make every effort to carry out such instructions to complete the WORK conforming to the SPECIFICATIONS and approved DRAWINGS in the fullest degree consistent with best industry practice.

7.6 Construction aids, Equipment, Tools & Tackles

CONTRACTOR shall be solely responsible for making available for executing the work, all requisite Construction Equipment, Special Aids, Tools, Tackles and testing equipment and appliances. Such construction equipment etc. shall be subject to examination by owner and approval for the same being in first class operating condition. Any discrepancies pointed out by OWNER shall be immediately got rectified, repaired or the equipment replaced altogether, by CONTRACTOR. OWNER shall not in any way be responsible for providing any such equipment, machinery, tools and tackles.


The OWNER reserves the right to rearrange such deployment depending upon the progress and priority of work in various sections.

8.0 DOCUMENTATION

8.1 Drawings

Notwithstanding the provisions contained in standard specifications, upon completion of WORK, the CONTRACTOR shall complete all of the related drawings to the "AS BUILT" stage and provide the OWNER, the following :-

- a) One complete set of all original tracings.
- b) Three complete bound sets of CONTRACTOR's specifications including design calculations.

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- c) Three complete sets, in the form of hand bound volumes, of the manufacturer's data book for all the equipment, instruments etc. including certified prints and data. Data books shall be completed with index as to tag numbers associated with manufacturer's data shown, Equipment data shall include as a minimum requirement the principle and descriptions of operations, installation and maintenance instructions, drawings and dimensions, parts list and priced purchase orders including those of major sub-vendors and suppliers. Requirements pertaining to "VENDOR DATA REQUIREMENT" attached with standard specifications for the documents to be included in the Data Book for each equipment, instruments etc. shall also be complied with.
- d) Soft copy of all the as built drawings prepared in AutoCAD in one set of rewritable compact.
- e) The cost of same shall be deemed to be inclusive in the rates and no separate payment shall be made.
- g) All as-built drawings as mentioned in specification for documentation enclosed elsewhere in the tender.
- h) Any other documents / records required.

9.0 ORDER OF WORKS/PERMISSIONS/RIGHT OF ENTRY/CARE OF EXISTING SERVICES.

9.1 The order in which the WORK shall be carried out shall be subject to the approval of the Engineer-in-charge and shall be so as to suit the detailed method of construction adopted by the CONTRACTOR, as well as the agreed joint programme. The WORK shall be carried out in a manner so as to enable the other contractors, if any, to work concurrently.

OWNER reserves right to fix up priorities which will be conveyed by Engineer-in-Charge and the CONTRACTOR shall plan and execute work accordingly.


9.2 Existing Service

9.2.1 Drains, pipes, cables, overhead wires and similar services encountered in course of the works shall be guarded from injury by the CONTRACTOR at his own cost, so that they may continue in full and uninterrupted use to the satisfaction of the Owners.

9.2.2 Should any damage be done by the CONTRACTOR to any mains, pipes, cables or lines (whether above or below ground etc.), whether or not shown on the drawings the CONTRACTOR must make good or bear the cost of making good the same without delay to the satisfaction of the Engineer-in-Charge.

10.0 MAKE OF MATERIAL/BOUGHT OUT ITEMS

Approved vendors for various major items is mentioned to Particular Job Specification with this tender documents. The bidder shall consider such names only as indicated in the aforesaid list and clearly indicate in the bid the name(s) as selected against these items. For any other item not covered in the list enclosed with this tender document, prior approval shall be obtained by the contractor for its make/ supplier's name.

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11.0 INSPECTION OF SUPPLY ITEMS

All inspections and tests shall be made as required by the specifications forming part of this contract. Contractor shall advise to BGL in writing at least 10 days in advance of the date of final inspection/tests. Manufactures inspection or testing certificates for equipment and materials supplied, may be considered for acceptance at the discretion of Owner. All costs towards testing etc. shall be borne by the contractor within their quoted rates. All inspection of various items shall be carried out based on Quality Assurance Plan, which will be submitted by the Contractor and duly approved by Owner.

12.0 ESCALATION

The Unit Rates quoted shall be kept firm till completion of work and no price Escalation shall be paid.

13.0 DOCUMENTS TO BE SUBMITTED/ PRODUCED ALONGWITH R.A. BILLS

- i) Computerized R.A. Bill/ Manual Bill, with IT No./ ST No./ Labour Licence No. printed thereon.
- ii) ESI/ EPF clearance certificates for the last month along with R.A. Bills.
- iii) Insurance Policy as per relevant clauses of Contract Agreement.
- iv) Attendance Register and Salary Records.
- v) Photocopy of the measurement book to be attached with R.A. Bills.
- vi) Any other document required for the purpose of processing the bills.
- vii) Registration Certificate with Sales tax authorities of state concerned.

14.0 SPECIAL POINTS PERTAINING TO SPECIFICATION


14.1 If any ambiguity arises between SCC (Tech.) & Particular Job Specification in that case later shall govern. However in some cases, decision of Engineer-in-charge shall be final and binding to the contractor.

14.2 Following points shall be taken care by the contractor before during execution works.

- i) Contractor shall be totally responsible for the occurrence of any accident during transportation of material/Manpower and shall be liable for damages / expenses due to the same.
- ii) Concerned authority / Owner shall not be responsible for any loss / damage.
- iii) While executing the subject work, work shall be done in consultation with the concerned person of that area.
- iv) Necessary safety measures shall be taken for the gas piping.

14.3 SPECIAL NOTES PERTAINING TO SCHEDULE OF RATES (SOR)

- i) All SOR item shall be quoted by the bidder in the price part of the bid
- ii) The quantities given above against individual items are indicative and shall not be considered to be binding. The quantities may be increased, decreased or deleted at site at the time of actual execution and as per discretion of Owner/ Engineer-in-charge. The unit rate shall be operated to work out the final payment due to Contractor.

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- iii) The payment will be made as per actual certified measurement at site.
- iv) The scope as mentioned in the SOR is of indicative nature only and shall include all activities as detailed in the relevant clauses of the respective Particular Job Specifications, Technical Specifications, Data Sheets & drawings, etc.

14.4 LIST OF APPROVED SUPPLIERS FOR BOUGHT OUT ITEMS

Pipe & Fittings

- 1) M/s Jindal
- 2) M/s Zenith

Ball Valves

- 1) M/s L&T
- 2) M/s Unison
- 3) M/s I-Tap
- 4) M/s BDK
- 5) M/s ZQ

Burners

- 1. M/s. Bina Enterprises, Mumbai
- 2. M/s. K.B. Industries, Nashik
- 3. M/s. M.N.C. Industrial Corporation, New Delhi
- 4. M/s. Pooja Packaging, Mumbai
- 5. M/s. Rolls Packs Pvt. Ltd., Mumbai
- 6. M/s. Shubham Paperplas, Mumbai

Notes:

- 1) For procuring bought out items from vendors other than those listed above, the same may be acceptable subject to the following: -
 - a) The vendor/supplier of bought out item(s) is a regular and reputed manufacturer/supplier of said item(s) for intended services and the sizes being offered is in their regular manufacturing/supply range.
 - b) The vendor/supplier should not be in the Holiday list of BGL.
 - c) Should have supplied at least 50% of required quantity or minimum 1 number whichever is higher of maximum size and rating of item(s) as required for intended services.
 - d) After approval from Engineer-In-Charge

The bidder should enclose documentary evidences i.e. PO copies, Inspection Certificate, end-user certificate etc. for all the bought out components, along with their bids.

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- 2) For any other item(s) for which the vendor list is not provided, bidders can supply those item(s) from reputed vendors/ suppliers who have earlier supplied same item(s) for the intended services in earlier projects and the item(s) offered is in their regular manufacturing/ supply range.

The bidder is not required to enclose documentary evidences (PO copies, Inspection Certificate, end-user certificate etc.) along with their offer. However in case of successful bidder, these documents shall be required to be submitted by them for prior approval of BGL within 30 days from date of Placement of Order.

7.0 HSE REQUIREMENT

The Contractor shall conform to the requirements outlined elsewhere in the tender document. In addition, the Contractor shall observe safe working practices in the storage and handling of cleaning fluids, flammable fluid and ensure smoking or naked flames are not permitted in the vicinity when these materials are being used.

Before start of site need to do Site specific risk assessment with documentation, based on SSRA need to do Tool box talk.

The Contractor shall provide all safety equipment (Personal Protective Equipment) like helmets, Safety Shoes, etc. to the labour which are necessary for safe working practice.

Any accident causing injury to any person or damage to property or equipment shall be reported to the EIC, and necessary corrective action has to be taken immediately.

Where the EIC determines that the work is being performed by the Contractor in an unsafe manner, he may suspend the work until corrective action is taken by the Contractor.




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SECTION 9

TECHNICAL SPECIFICATIONS & STANDARDS

| | | |
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LIST OF SPECIFICATION/ STANDARDS

A) Technical Specification

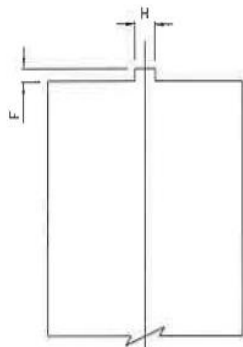
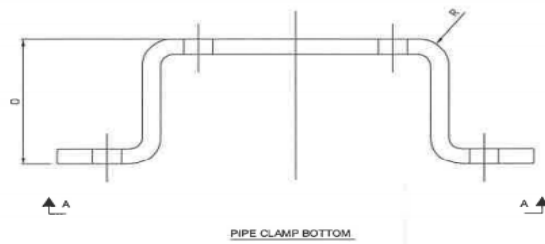
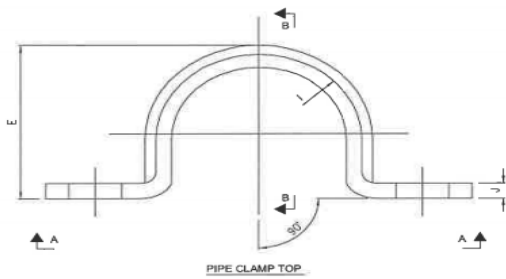
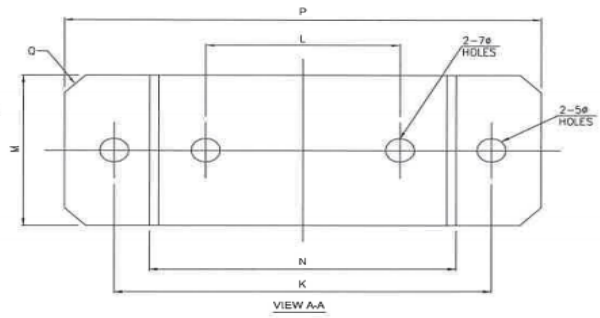
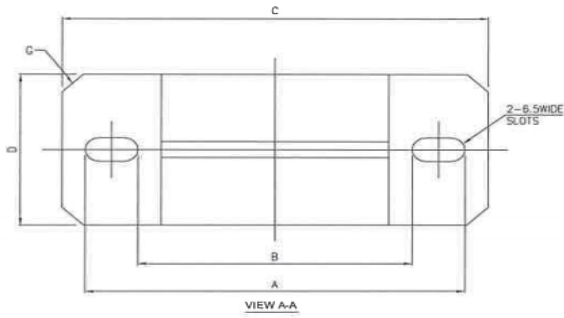
| SR No | Document No | Description |
|-------|--|--|
| 1 | ASME B31.3 | Gas Transportation and distribution piping system |
| 2 | IS 1239 Grade C, heavy class MS pipe or higher specification grade | Pipes |
| 3 | T4S | Technical Standards and Specifications including Safety Standards of PNGRB |
| 4 | ASTM A 352 Gr. WCB | Ball Valves |



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SECTION 10 DRAWING



DIMENSION TABLE

| CLAMP SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R |
|------------|----|----|----|----|----|-----|-----|-----|------|-----|-----|----|----|----|----|-----|-----|-----|
| 1" | 66 | 46 | 72 | 15 | 34 | 1.2 | 1.0 | 2.0 | 16 | 1.2 | 108 | 56 | 20 | 75 | 25 | 122 | 2.0 | 2.0 |
| 1/2" | 54 | 34 | 60 | 15 | 22 | 1.2 | 1.0 | 2.0 | 11.5 | 1.2 | 96 | 44 | 20 | 60 | 25 | 110 | 2.0 | 2.0 |



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SECTION – 11 CUSTOMER AWARENESS

11.1

Pre-Commissioning Checklist

| Sr. No. | Checklist Items | Yes | No | Remarks |
|----------|--|--------------------------|--------------------------|---------|
| A | Meter Installation | | | |
| 1 | Meter is installed in well ventilated or in open space. | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2 | Clear approach to reach to Meter | <input type="checkbox"/> | <input type="checkbox"/> | |
| B | Internal Piping | | | |
| 1 | No underground GI internal piping | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2 | Sufficient support provided for Internal piping. | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3 | All pipeline supports with min. 3mm thk (for 2", 3") rubber packing. | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4 | Copper jumper on every flange joint (similar to skid) | <input type="checkbox"/> | <input type="checkbox"/> | |
| 5 | Internal piping material and installation as per specification | <input type="checkbox"/> | <input type="checkbox"/> | |
| 6 | Internal pipeline with support for Natural Gas is painted with golden yellow colour. | <input type="checkbox"/> | <input type="checkbox"/> | |
| 7 | As built drawing of complete internal pipeline submitted | <input type="checkbox"/> | <input type="checkbox"/> | |
| 8 | PVC Sleeve is provided on wall crossing piece. | <input type="checkbox"/> | <input type="checkbox"/> | |
| C | Safety and Other requirement | | | |
| 1 | Furnace or open flame zone is at least 5 mtr. away from meter | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2 | 5 Kg. ABC type Fire Extinguisher available | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3 | Emergency contact details and safety provided to customer | <input type="checkbox"/> | <input type="checkbox"/> | |

In charge Engineer

Date



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11.2

TOOL BOX TALK

Subject/Activity : Commissioning of Commercial PNG Connection.

Presenter Name :


Date :

Time : From: To

| Sr. No. | Participant's Name | Company/ Contractors Name | Signature |
|---------|--------------------|---------------------------|-----------|
| | | | |
| | | | |
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Brief About the topic Cover

Signature of the Presenter

| | | |
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11.3 Points to be covered during TOOL BOX TALK with customer.

- i) Hazardous property of Natural Gas.
- ii) Emergency contact details of BGL Gas.
- iii) Operation of isolation valves.
- iv) Do's and Don'ts in case of gas leakage.
- v) Advance intimation to BGL Gas before carrying out any modification/maintenance or extension in internal piping.
- vi) No storage of any flammable material surrounding the Meter installation.
- vii) In case of any fire in premises, immediate isolate the Gas supply by closing of main Isolation valve and inform BGL Gas.
- viii) Before carrying out any excavation within premises near gas pipeline, inform BGL Gas.
- ix) Safety instructions like no smoking; no mobile phone shall be followed strictly.

11.4 General Guidelines:

- Ventilation /Exhaust fans/ducting should be provided in burner area.
- No smoking signage's boards should be put near burner area.
- SS braided SS bellow pipe should be used to connect burner to appliance valve.
- Burners should give blue flame (it indicates perfect combustion) if any yellowish flame is observed it should be immediately referred to the burner supplier.



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SECTION 12 SCHEDULE OF RATES

SCHEDULE OF RATES- PART A

| S. NO. | DESCRIPTION OF WORK | UNIT | QTY (A) | UNIT MATERIAL RATE (B) | TOTAL MATERIAL AMOUNT IN RS (C=A x B) | UNIT LABOUR RATE (D) | TOTAL LABOUR AMT IN RS (E=A x D) |
|---|---|------|---------|------------------------|---------------------------------------|----------------------|----------------------------------|
| | PIPE & FITTINGS (Make:Jindal/Zenith) | | | | | | |
| 1 | Supply, Installation, Welding, Fabrication including all tap off , Clamping/ Pipe support, Painting, Pneumatic Testing, Purging ,Burner Conversion, Commissioning of Seamless Class pipe as per IS 1239/ Heavy class MS piping or higher grade, with all necessary fittings like elbows, flanges, couplings, reducer, Tees etc., materials of fittings shall be as per ASTM A 234 Gr. WPB, with suitable dimensions including Burner Conversion | | | | | | |
| | a) 100mm NB | MTRS | 100 | | | | |
| | b) 80mm NB | MTRS | 100 | | | | |
| | c) 50mm NB | MTRS | 350 | | | | |
| | d) 40mm NB | MTRS | 170 | | | | |
| | e) 25mm NB | MTRS | 400 | | | | |
| | f) 15mm NB | MTRS | 200 | | | | |
| | BALL VALVES & FASTENERS (Make: L&T/BDK/Unison/ZQ/I-Tap) | | | | | | |
| 2 | a) 100mm NB | Nos. | 50 | | | | |
| | b) 80mm NB | Nos. | 50 | | | | |
| | c) 50mm NB | Nos. | 50 | | | | |
| | d) 40mm NB | Nos. | 20 | | | | |
| | e) 25mm NB | Nos. | 50 | | | | |
| | f) 15mm NB | Nos. | 50 | | | | |
| | g) 3/8" | Nos. | 200 | | | | |
| 3 | Bhagyanagar Gas Sticker | Nos | 50 | | | | |
| 4 | Designing and Isometric Drawing Charges | Nos | 50 | | | | |
| Sub-Total Amount in Rs. | | | | | | | |
| Total Final Basic Amount (Material+ Labour):(C+E) | | | | | | | |
| GST @ % | | | | | | | |
| Grand Total Amount incl. GST in Rs. (Part A): (I) | | | | | | | |

SCHEDULE OF RATES- PART-B

| S. NO. | DESCRIPTION OF WORK | UNIT | QTY (A) | UNIT MATERIAL RATE (B) | TOTAL MATERIAL AMOUNT IN RS (C=A x B) | UNIT LABOUR (LPG to NG conversion) RATE (D) | TOTAL LABOUR AMOUNT IN RS (E= A x D) |
|--|--|------|---------|------------------------|---------------------------------------|---|--------------------------------------|
| | BURNER INSTALLATION AND CONVERSION DETAILS (with all necessary accessories) | | | | | | |
| 5 | G-TYPE BURNER CONVERSION: | | | | | | |
| A | Providing & fixing G 7 burner | Nos. | 50 | | | | |
| B | Providing & fixing G 9 burner | Nos. | 50 | | | | |
| C | Providing & fixing G 11 burner | Nos. | 50 | | | | |
| 6 | T-TYPE BURNER CONVERSION: | | | | | | |
| A | Providing & fixing T-22 burner | Nos. | 40 | | | | |
| B | Providing & fixing T-35 burner | Nos. | 40 | | | | |
| C | Providing & fixing T-50 burner | Nos. | 40 | | | | |
| D | Providing & fixing T-78 burner | Nos. | 40 | | | | |
| 7 | M-TYPE BURNER CONVERSION: | | | | | | |
| A | Providing & fixing M-22 burner | Nos. | 30 | | | | |
| B | Providing & fixing M-35 burner | Nos. | 30 | | | | |
| C | Providing & fixing M-50 burner | Nos. | 30 | | | | |
| D | Providing & fixing M-78 burner | Nos. | 30 | | | | |
| 8 | V-TYPE BURNER CONVERSION: | | | | | | |
| A | Providing & fixing V-300 burner | Nos. | 30 | | | | |
| B | Providing & fixing V-600 burner | Nos. | 30 | | | | |
| C | Providing & fixing V-900 burner | Nos. | 30 | | | | |
| D | Providing & fixing V-1200 burner | Nos. | 30 | | | | |
| 9 | RANGE TYPE BURNER CONVERSION: | | | | | | |
| A | One Range burner | Nos. | 30 | | | | |
| B | Two Range burner | Nos. | 30 | | | | |
| C | Three Range burner | Nos. | 30 | | | | |
| D | Four Range burner | Nos. | 30 | | | | |
| Sub-Total Amount in Rs. | | | | | | | |
| Total Final Basic Amount (Material+ Labour) :(C+E) | | | | | | | |
| GST @ % | | | | | | | |
| Grand Total Amount incl. GST in Rs. (Part B) :(II) | | | | | | | |
| Grand Total Amount (Part A+ Part B): III=(I+II) | | | | | | | |



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(This area is crossed out with a large diagonal line, indicating it is reserved for the bidder's signature and seal.)