



Bhagyanagar Gas Ltd.

BHAGYANAGAR GAS LIMITED

(A JOINT VENTURE OF HPCL & GAIL)

BID DOCUMENT FOR

**TENDER FOR PROCUREMENT OF MDPE FITTINGS-
TOOLS & TACKLES FOR OPERATIONAL MAINTENANCE
PURPOSE FOR THE THREE CITIES HYDERABAD,
VIJAYAWADA & KAKINADA**

**UNDER LIMITED DOMESTIC
COMPETITIVE BIDDING**

Bid Document No.: BGL/306/2015-16

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the Three Cities Hyderabad, Vijayawada & Kakinada.**

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SECTION – 7

SPECIAL CONDITIONS OF CONTRACT (SCC)

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SPECIAL CONDITIONS OF CONTRACT (SCC)

1.0 GENERAL

- 1.1 Special Conditions 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.
- 1.2 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 within the Contract so far as it may be practicable to do so.
- 1.3 Where any portion of the General Conditions 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 Conditions of Contract and shall be the extent of such repugnancy, or variations, prevail.
- 1.4 Wherever it is mentioned in the specification 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 include cost of such performance and provisions, so mentioned.
- 1.5 The materials, design, and workmanship shall satisfy the relevant Indian Standard, the Job Specifications contained herein and Codes referred to. Where the job specification stipulate requirements in addition to those contained in the standard codes and specifications, these additional requirements shall also be satisfied.
- 1.6 In case of an irreconcilable conflict between Indian or other applicable standards, General Conditions of Contract, Special Conditions of Contract, Specification, Drawings or Schedule of Rates, the following shall prevail to the extent of such irreconcilable conflict in order of precedence:
- i.** Letter of Acceptance/ LOI along with Statement of Agreed Variations.
 - ii.** Schedule of Rates as enclosures to Letter of Acceptance
 - iii.** Special Conditions of Contract
 - iv.** Drawings
 - v.** Technical/ Material Specifications
 - vi.** Instruction to Bidder
 - vii.** General Conditions of Contract
 - viii.** Indian Standards
 - ix.** Other applicable standards
- 1.7 It will be the 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.
- 1.8 In the absence of any Specifications covering any material, design of work(s) the same shall be performed/ supplies/ executed in accordance with Standard Engineering Practice as per the instructions/ directions of the Engineer-in-charge, which will be binding on the Contractor.

2. Documents proofs to be furnished:-

1. Copy of the P.O successfully supplied to the any CGD Company.
2. Acceptance certificate of the Client.
3. **PRS:-Nil.**
4. **Delivery Schedule:-**
4 weeks from placement of P.O.
5. **Payment terms:-**
100% Payment will be done by BGL against submission of invoices, warrantee certificates, all related technical documents. Payment would be released by the finance department at BGL, Hyderabad within 15 days from the date of submission of acceptable documents duly certified by the Engineer – In – Charge. Payment will be made through cheque.
6. **Security Deposit / Contract Performance Guarantee:**

The successful bidder shall deposit security deposit @ 10% of the contract value within 30 days of LOI/PO. The Security deposit shall be submitted in the form of an unconditional irrevocable Bank Guarantee for Warranty from any Indian Nationalised Bank/ Scheduled bank/ reputed foreign bank having office in India and registered with Reserve Bank of India acceptable to BGL for a sum equivalent to 10% of the total contract value on the name of M/s Bhagyanagar Gas Limited, Hyderabad. Alternatively the bidder can also submit the security deposit in the form of crossed Demand Draft in favour of M/s Bhagyanagar gas Limited, Hyderabad.
7. **Delivery Location:-**

Three locations
1) Hyd – Shamirpet – Mother Station
2) VJY – Vijayawada- Mother Station
3) KKD- Kakinada – Mother Station.
8. **WARRANTY:**
12 months from the date of supply against poor workmanship & manufacturing Defects.
9. **EVALUATION CRITERIA:**
Evaluation shall be done on item wise lowest cost basis.
10. **Other GCC :-**
All other GCC remains unaltered.



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SECTION – 8
TECHNICAL SPECIFICATION

Technical Specification for MDPE Electro Fusion Fittings

1.0 SCOPE:-

These specifications are for Electro fusion Fittings for use on Polyethylene pipe systems carrying natural gas at operating pressure up to 6 bar. This specification is limited up to nominal diameter of 225 mm and working temperature of 0 to 50 deg C.

2.0 REFERENCE STANDARDS:-

EN 1555 Plastic piping systems for combustible gas distribution, Polyethylene. ISO 14885 Polyethylene pipes for supply of Gaseous fuels specifications.

3.0 DEFINITIONS:

3.1 Electro fusion:

This term covers all injected moulded polyethylene accessories equipped with a heated element designed to transform electrical energy in to heat to create self welding.

3.2 END TO END WELDING:

This term describes injection moulded polyethylene accessories with smooth ends but not equipped with integrated heating elements. These are connected to the network by end to end welding using electro fusion sleeves.

In certain cases the accessories can also present one or more electro fusion ends. In such cases the accessories will provide for the requirement of each connection end in shape, measurement and technical characteristics.

3.3 GENERAL:

These specifications are based on the series of EN 1555 standards. The accessory described in document complies with all prescriptions included in EN 1555.

4.0 MATERIAL:

The material used for manufacturing of the accessories must confirm to the requirements demanded for components used in gas fuel distribution system. All fittings shall be electro fusion fittings only. The wall thickness of the fittings shall be more or equal to the wall thickness of the pipes to be joined.

The raw material used for accessory production shall be in compliance with EN 1555 and as per the BGL standards BGL/ENG/PE/02. The raw material shall be class PE 100 only.

5.0 APPEARANCE AND FINISH

The internal and external surface of accessory must be smooth, clean and free of all scratches, pitting and other surface faults that may reduce the performance of electro fusion fittings.

No element of any accessory must show any signs of damages, scratching, piercing, blisters, bloating, denting, holes, cracks, or other faults that can reduce required performance.

6.0 COLOUR:

Fitting shall be BLACK in colour.

7.0 JOIN APPERANCE:

After welding, when examined visually the internal and external surface of pipes and accessories must appear free of welding exudation outside the accessory limit.

Internal surface of all adjacent piping must remain identical to the previous condition before welding.

8.0 ELECTRICAL CONNECTIONS:

Electro fusion fittings will be supplied with standard shrouds for manual operations with geometry as per drawing no Drg/PE/01. This system is equipped with an appropriate electrical protection for the voltage and the intensity of the current in use and adapted to the characteristics of the electrical line.

The power required for the electro fusion accessory welding must not exceed 3KW during welding operations.

The terminal pin size will be 4.7 mm.

The connector terminal surface must offer minimum possible contact resistance during voltage cable joining.

All fitting shall be fused at 39 – 40V.

9.0 OPERATING CONDITION:

The supplier shall confirm that fittings will operate at ambient temperature of up to 50 deg C. without any alteration to the standard fusion time.

10.0 MARKING:

Electro fusion fittings will be supplied with an individual labels attached showing fusion time, cooling time, and fitting size (and have the information embossed). Fitting shall be indelibly marked with the manufacturers name or trade mark, production batch number to enable the traceability of quality control records. All marking must be permanently legible for the product life under standard stocking conditions, exposure to external weather conditions, treatment, installation, and use. All electro fusion fitting shall be bar coded. The bar coding shall be such way that the bar code reader can directly transform fusion data to the control unit. Marking quality and size must be a standard that can be read with naked eyes only. The SRD pipe ranges that are to be fitted with these accessories must be clearly marked on the fittings.

11.0 PACKAGING AND DELIVERY:

Electro fusion fitting shall be supplied in individual, sealed clear polythene bags or cardboard boxes.

All boxes and plastic sheeting must be marked with at least one label showing the manufacturer's name, the product type, part measurements, and number of single parts contained in the box or bag.

12.0 INSPECTIONS:

1. BGL representative or Third Party Inspection agency appointed by BGL shall carry out stage wise inspection during manufacturing/final inspection.
2. Vendor shall furnish all the material test certificates, internal test reports as per specified codes for 100% material at the time of final inspection of each supply lot of material.

3. Control checks and number of test must be carried out as per the standard EN -1555 -3 and the selection of sample will be as per the Annexure – I.
4. The manufacture must carry out control checks for Appearance or colour, Measurements, Hydraulic testing's, Electrical resistance, marking.
5. Hydraulic testing must be continued until the rupture of at least two test samples for each set of tests.
6. Even after Third Party inspection, BGL reserves the rights to select a sample of fittings randomly from each manufacturing batch and have these independently tested. Any requirement not supplied will lead to the refusal of the complete batch. If the batch is refused the same batch can be presented for approval again after a control check. However the demand of the counterchecking will be double the number of samples previously tested.
7. All PE fittings are guaranteed for one year period after application for use, or maximum for three years from date of manufacturing.

13.0 Documents:

Along with the shipment of material the vendor should furnish THREE copies of the following documents,

- 1.0 Test certificates / results of all tests that are carried out in accordance with manufacturing standards and as per the manufacturer's quality control procedure.
- 2.0 Inspection release note issued by third party inspection agency, If any.
- 3.0 Test certificate for raw material.
- 4.0 The quality assurance plan for manufacturing of Electro fusion fittings.
- 5.0 Procedure for Electro fusion or welding instructions along with various equipments.

ANNEXURE – I

The selection of samples to carry out various tests as per the standards EN 1555 – 3 are,

Sr No	Characteristics	Number of sample	Number of measured sample
1	Appearance / Colour	10	1
2	Measurements	10	1
3	Thermal Stability	1	1
4	Melt mass flow rate	1	1
5	Electrical resistance	5	1
6	Cohesion resistance	2	1
7	End to end seam resistance	2	1
8	Shock resistance	1	1
9	Load loss	1	1
10	Marking	1	1



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SECTION – 9

SCHEDULE OF RATES (SOR)

S.No.	Item Description	Units	Size	Qty	Unit Rate(including all taxes & duties excluding CST with C Form)	Total Amount(including all taxes & duties excluding CST with C Form)
MDPE FITTINGS						
1	Coupler	Nos	20 mm	70		
2	Coupler	Nos	32mm	97		
3	Coupler	Nos	63mm	53		
4	Coupler	Nos	125mm	34		
5	Equal Tee	Nos	20 mm	20		
6	Equal Tee	Nos	32mm	20		
7	Equal Tee	Nos	63mm	15		
8	Equal Tee	Nos	125mm	8		
9	End Cap	Nos	20mm	49		
10	End Cap	Nos	32mm	34		
11	End Cap	Nos	63mm	20		
12	End Cap	Nos	125mm	16		
13	90Deg Elbow	Nos	32mm	10		
14	90Deg Elbow	Nos	63mm	5		
15	90Deg Elbow	Nos	125mm	9		
16	Tapping Tee	Nos	32x20mm	10		
17	Tapping Tee	Nos	63-75x32mm	10		
18	Tapping Tee	Nos	90-140x32mm	5		
19	Tapping Tee	Nos	125x63mm	10		
20	Tapping Tee	Nos	90 x 63 mm	5		
21	EF Reducer	Nos	32x20mm	30		
22	EF Reducer	Nos	63x32mm	25		
23	EF Reducer	Nos	125x63mm	8		
24	Transition Fitting	Nos	32x3/4"	30		
25	Transition Fitting	Nos	32x1"	35		
26	Transition Fitting	Nos	20x1/2"	55		
Sub-total (Rs):(i)						
CST with C form.....%:(ii)						
Total Amount of Fittings incl. all taxes & duties (Rs)- (A)=(i)+(ii)						

PNG MAINTAINANCE TOOLS

S.No	Item Description	Units	Size	Qty	Unit Rate(including all taxes & duties excluding CST with C Form)	Total Amount(including all taxes & duties excluding CST with C Form)
1	Scrapping Tool	Nos	-	4		
2	Squeezer / Squeez - off tool (Manual 20-63mm Pipe)	Nos	20-63 MM	6		
3	Hydraulic Squeezer / Squeez - off tool (63-180mm Pipe)	Nos	63-180 MM	4		
4	Rotary Pipe Cutter (20 x 63)	Nos	20 - 63 mm	2		
5	Rotary Pipe Cutter (90 x 125)	Nos	90 -180 mm	2		
Total (Rs):(i)						
Discount(Rs):(ii)						
Sub-total (Rs):(iii):(i)-(ii)						
CST with C form.....%:(iv)						
Total Amount of Tools incl. all taxes & duties (Rs)- (B)=(iii)+(iv)						
Grand Total incl. of all Taxes & duties (Rs):(A + B)						

Note:-

1. Frieght to be paid on " TO PAY BASIS". Vendor to arrange Transit Insurance also. Expenses incurred due to frieght & Transit Insurance will be paid by BGL on actuals on production of supporting documents.
2. Evaluation shall be done on item wise lowest cost basis.