



2nd Floor, Parishram Bhavan, APDC Building, Basheerbagh, Hyderabad-500004

CORRIGENDUM No.4 to Tender Document No: GGPL/C&P/Pur/4718/2016-17

Date: 18/02/2017

Item: Supply of CNG Storage Stationary and Mobile Cascade for Mother Station and Daughter Booster Stations at East & West Godavari Districts Of Andhra Pradesh

The following are the Final Pre-bid queries and their clarifications:

| S. No. | Clause No. & Page No. | Tender Clause | Bidder's Query | Reasons for Query | GGPL'S CLARIFICATIONS |
|--------|--------------------------------|--|--|---|--|
| 1 | 1.4.2.1 Para 3, Page 58 of 105 | Banking cascade storage vessels have a design pressure of 275 kg/cm ² and storage pressure to 255 kg/cm ² | Banking cascade storage vessel have a maximum working pressure of 255 kg/cm ² | This criteria of 'Design Pressure' is not mentioned in IS 7285 (part-2) standard | Vendor to note that process design pressure is 280 kg/cm ² g (275 barg). Vendor to mention the MAWP (Maximum allowable Working pressure) of the |
| 2 | 1.5 e), Page 62 of 105 | An aluminium ring for each cylinder with indentation on cylinder hydro tested month, year is required. | Date of the Hydrostatic stretch test shall be permanently stamped on each cylinders as per IS 7285 (part-2) | Aluminium ring is fitted for retested cylinders as per IS 8451 | Vendor proposal is acceptable |
| 3 | 1.7 para 2, Page 63 of 105 | A warning in the following terms shall be attached to every cylinder containing Compressed Natural Gas namely:- i) Do not change the color of the cylinder ii) This cylinder should not be filled with any gas other than CNG. iii) No flammable material should be stored in the immediate vicinity of this cylinder or in the same place in which it is kept. iv) No oil or similar lubricant should be used on the valves or other fittings of this cylinder. v) Please look for the next date of test, which is marked on a metal ring inserted between the valve and the neck of the cylinder, and if this date is over, do not accept the cylinder. | A warning in the following terms shall be attached to every cylinder containing Compressed Natural Gas namely:- i) Do not change the color of the cylinder ii) This cylinder should not be filled with any gas other than CNG. iii) No flammable material should be stored in the immediate vicinity of this cylinder or in the same place in which it is kept. iv) No oil or similar lubricant should be used on the valves or other fittings of this cylinder. v) Please look for the next date of test, which is marked on a metal ring inserted between the valve and the neck of the cylinder, and if this date is over, do not accept the cylinder. | Instead of sticker on every cylinder, we propose a warning plate will be bolted on every cascade. | Vendor proposal is acceptable |



(Handwritten Signature)

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| | | | | |
|---|---|--|---|---|
| 4 | <p>1.12 para 3, Page 66 of 105</p> <p>Frame structure of each cascade shall be capable of withstanding 4 G impact (four times gravity) from any direction without any distortion. Bidder to submit 4-G static test. Calculation of one complete assembled cascade with all the cylinders mounted & filled. Bidder to test one frame for satisfactory performance, strength and stability. Test results and report shall be submitted to GGPL.</p> | <p>Frame structure of each cascade shall be capable of withstanding 4G impact (four times gravity) from any direction without any distortion. Bidder to submit 4-G static test calculation of one complete assembled cascade with all the cylinders mounted & filled. (proposing to remove the 4G Test & Test Results)</p> | <p>No Test results, Only calculations to be submitted, as non availability of this testing facility.</p> | <p>Vendor proposal of calculation submission for 4G test is acceptable.</p> |
| 5 | <p>1.12 para 7, Page 67 of 105</p> <p>Frame shall be suitably covered with canopy from top to avoid the ingress of Sunlight & rain water. The storage of the cascade cylinders should be made in a well-ventilated shed having a light roof or canopy with at least one side open. An area of at least 1 feet around the cascade shall be provided within the shed. Conforming to Gas Cylinder Rule 2004. Height for vent pipe of the cascade shall be 3m above the cascade foundation.</p> | <p>Frame shall be suitably covered with canopy from top to avoid the ingress of sunlight and rain water. This storage of the cascade cylinders should be made in a well-ventilated shed having a light canopy with at least one side open. Height for vent pipe of the cascade shall be 3m above the cascade foundation. (Proposing to remove shade around the cascade).</p> | <p>In 'Gas Cylinder Rule, 2016' and 'Gas Cylinder Rule, 2004' it is stated under 'FORM G' for 'Licence to dispense compressed natural gas in CNG dispensing station as automotive fuel' for shade of an area of at least 1 meter around the cascade and not for cascade manufacturers &/ or canopy on cascade</p> | <p>Vendor understanding is correct, However vendor to supply cascade with canopy arrangement.</p> |
| 6 | <p>1.12 para 6, Page 68 of 105</p> <p>Liquid filled pressure gauge of diameter 4", (0-400 kg/cm²) with a 3 - way isolating valve on each bank shall be used. Thus each cascade shall have three pressure gauges. Pressure gauges shall be securely mounted</p> | <p>Liquid filled pressure gauge of diameter 4", (0-400 kg/cm²) with a 2 - way manifold block on each bank shall be used. Thus each cascade shall have three pressure gauges. Pressure gauges shall be securely mounted</p> | <p>With the application of 2- Valve manifold block pressure gauge application and pressure vent applications can operate separately with the respective valves provided on the manifold block.</p> | <p>Not Acceptable, Vendor to provide 3-way isolating valve.</p> |
| 7 | <p>1.13 para 10, Page 69 of 105</p> <p>Material of vent tubing shall be Copper & Brass fitting as per ASTM B75, B68 and make shall be of Sandvik/Parker.</p> | <p>Material of vent tubing shall be Copper & Brass fitting as per ASTM B75, B68.</p> | <p>Make for BRASS fittings used in vent manifold: Swagelok/Parker Make for Copper tubing used in vent manifold: Indigenous/Standard make</p> | <p>Vendor to comply tender document</p> |





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| | | | | | |
|----|------------------------------|---|---|--|---|
| 8 | 1.13 para 11, Page 69 of 105 | All piping to be tested after assembly to pressure equal to that of the pressure relief device setting and proved leak free. | Pressure manifold (SS) to be tested after assembly at working pressure i.e., 255 kg/cm ² , and proved leak free. Vent manifold (Copper/Brass) to be tested at 5 bar pressure and proved leak free. (Please refer para 8 of inspection and Testing clause, Clause No. 1.18 on Page 72 of 105 from the tender document). | The Pressure Relief device of cylinder shut-off valve operators at 336/399 kg/cm ² as per IS3224 as approved by CCOE, PESO | Testing of pressure manifold and vent manifold at working pressure (i.e., at 255 kg/cm ²) and 5 bar pressure is acceptable. |
| 9 | 1.13 para 12, Page 69 of 105 | Vendor shall provide a suitable draining arrangement duly certified / approved by PESO for the purpose of removing moisture and other contaminants that may accumulate within the Piping / Tubing | Proposing to remove this clause | We are Sceptical about draining arrangement and obtaining CCOE approval to this arrangement | Vendor to provide suitable drain tapping in the horizontal portion of tubing/piping to remove moisture or condensate in |
| 10 | 1.14 para 3, Page 69 of 105 | Surface preparation by Shot Blasting as per grade SA 2 1 / 2 Swedish Standard SIS055 909. | Surface preparation by shot Blasting as per Grade SA 21/2, as per indian standard IS 9954 | SA 2/12, as per IS 9954 / ISO 8501-1 (Indian Standard reference given instead of Swedish Standard) | Ok, Acceptable. However vendor to comply minimum thickness requirement as stated in the Tender Document |
| 11 | 1.15 para 2, Page 70 of 105 | Every Mobile cascades used for the transport of compressed gas shall be a type approved, in writing, by the PESO | Proposing to remove this clause | Cylinders are TYPE approved in writing, by the PESO vide letter number G.3 (42) 515/VII, dated 25-Apr-2016 and no TYPE approval for any cascade | Statement in the tender document is meant to be cylinders only. |
| 12 | 1.18 para 2, Page 72 of 105 | Upon delivery to the site, all the equipment should be assembled in a complete system | Upon delivery to the site, all the equipment should be assembled in a complete system except 3 meter vent pipe. Vent pipe shall be 3m (1.5 + 1.5) high, one vent pipe of 1.5 m long shall be delivered loose and to be bolted at site | With reference to para 22 of clause no. 1.4.2.1 of tender documents, vent pipe height is 3 meter, which may be get damaged during transit. We will supply two separate vent pipe of 1.5 meter high, one assembled in cascade and one loose to be bolted at site. | Ok, Acceptable |

No more Prebid Queries shall be entertained. The due date for submission of offers is latest by 14.00 hrs. 24.02.2017



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