



CORRIGENDUM

ADDENDUM No.03 dated 07.02.2019

to

TENDER NO. SDG9299P19/09

This addendum is issued to incorporate the following:

- i) Amendment in technical specification as detailed in **Annexure-AA**
- ii) Incorporation of Technical Evaluation Matrix as per **Annexure-BB**. This Annexure is incorporated in place of Annexure-E of Original Tender Document.

Note: Bidders must submit duly filled Annexure-BB along with their techno-commercial bid. Annexure-E of original tender document is to be treated as deleted.

- iii) To extend the Bid Closing/Opening dates as under:

Description	Existing Date & Time	Extended upto
Bid Closing Date & Time	13.02.2019 (at 11.00 Hrs. IST)	27.02.2019 (at 11.00 Hrs. IST)
Technical Bid Opening Date & Time	13.02.2019 (at 14.00 Hrs. IST)	27.02.2019 (at 14.00 Hrs. IST)

All other Terms & Conditions of the Bid Document remain unaltered.

sd/-
Amrit Loushon Bora
Manager Materials(FD)
For GM Materials
For Resident Chief Executive

Following existing clauses of Tender No. SDG9299P19/09 are to be read as under in place of existing:

Srl No	Existing Clause ref.	Existing Clause details	Amended to read as
ANNEXURE-A, AA:: SPECIFICATION & QUANTITY OF THE ITEMS TO BE PROCURED			
01	Clause No. 1.0	Gas Lift Valve Test Lab (Static & Dynamic) for setting and testing gas lift valves manufactured as per API 11V1 having the following technical specifications: -	Gas Lift Valve Test Lab (Static & Dynamic) for setting and testing gas lift valves manufactured as per the following applicable standards & having the following technical specifications: - Applicable Standards: i) API-11V1 ii) ANSI/ASME BPVC, Sec VIII, Div 1 & 2 (For Surge & Other Vessels) iii) ANSI/ASME B31.8 (For Piping) iv) ANSI/ASME B16.5 (For Flanges) v) ANSI/ASME B16.34 (For Valves)
02	Clause No. 1.0 (i)	Gas Lift Valve Test rack (Sleeve Tester): Gas Lift Valve Test rack (Sleeve Tester) for safe and quick setting/calibration/testing of 25.4 mm (1") O.D. and 38.1 mm (1.1/2") O.D. GLV complete with isolating valves, sockets, piping, manifold, O – Rings, equipped with two (02) numbers of ½"ball valves for quick open/shut to isolate test sleeves, two (02) numbers of ¼"ball valves for N2 gas inlet and bleed off equipped with test valves and high pressure hose along with 1"and 1.1/2"GLV manifold equipped with high pressure hose to connect to below listed gauge (Item No. ii). Quantity: 01 (one) number.	Gas Lift Valve Test rack (Sleeve Tester) [Quantity: 01 (one) number]: a) Gas Lift Valve Test rack (Sleeve Tester) for safe and quick setting/ calibration /testing of 25.4 mm (1") O.D. and 38.1 mm (1.1/2") O.D. GLV complete with isolating valves, sockets, piping, manifold, O – Rings, equipped for quick open/shut to isolate test sleeves, N ₂ gas inlet and bleed off equipped with test valves, high pressure hoses etc. b) Test rack should be complete with relief valves and connections inlet N ₂ Gas Supply, pressure gauge port to connect to below listed gauge (Item No. ii) with high pressure hoses, and capable of handling working pressure of 2000 psi
03	Clause No. 1.0 (ii)	Pressure Gauge: Liquid filled high precision dial type pressure gauge having Dial Diameter of 254.00 mm (10") and having pressure range of 0 – 105 kg/cm ² (0 – 1500 PSI) with 0.35 Kg/cm ² (5 PSI) gradations for above sleeve tester for wall mount/installed with Test	Pressure Gauges: a) Pressure gauges for Test Bench and probe test fixture shall be High precision dial type pressure gauge having Dial Diameter of 300.00 mm (12"), knife edge pointer having pressure range of 0 – 105 kg/cm ² (0 – 2000 PSI) with 0.14 Kg/cm ²

		<p>Bench/ Lab.</p> <p>Quantity: 01 (one) number.</p>	<p>(2 PSI) gradations fitted with ½" NPT end connections for above sleeve tester for wall mount/installed with Test Bench/ Lab.</p> <p>b) Pressure gauges for Aging chamber shall be of 6" Dial Diameter with a pressure rating of 10000 psi.</p> <p>c) Pressure gauge for probe test shall be of 6" Dial Diameter with a pressure rating of 2000 psi and 5 psi least count.</p> <p>d) One set of all pressure gauges shall be provided as extra</p> <p>e) Certificate of calibration shall be submitted along with the supply</p>
04	Clause No. 1.0 (iii)	<p>Pressure Chamber (Valve Ager): Pressure Chamber (Valve Ager) capable to operating at least at 350 Kg/cm² (5000 PSI) pressure for 25.4 mm (1") and 38.1 mm (1.1/2") gas lift valves, complete with flame proof high pressure pump, pressure gauge and fittings along with assorted tools as per API specification 11V1. Valve ager shall be coated internally and externally with WC 200 coating, ½" NPT inlet port on bottom, and ½" NPT outlet port on top, dressed with 5000 PSI minimum rated ball valves for quick open/shut, 5000 PSI minimum rated flexible hose to connect to high pressure pump and fittings.</p> <p>Quantity: 01 (one) number.</p>	<p>Pressure Chamber (Valve Ager) with Pump [Quantity: 01 (one) number]</p> <p>a) The pressure chamber or Gas Lift Valve Ager should be made of material conforming to ASME/ API Standards for high pressure parts capable to operating at least at 350 Kg/cm² (5000 PSI) pressure and should be able to hold a minimum of 10 nos. 25.4 mm (1") and 38.1 mm (1.1/2") gas lift valves preferably in a vertical position firmly held in place having ease of insertion and removal. The Pressure Chamber (Valve Ager) shall be tested 1.5 times of the rated working pressure. A Pressure Test Certificate along with the Test Recorder Chart is to be submitted along with the unit.</p> <p>b) A removable manually operated hydraulic pump (Water as working medium) capable to generate working pressure of 5000 psi of reputed make to be supplied along with the Ager/ pressure chamber complete with all necessary tools, pressure gauges, fittings etc. as per API specification Appendix B of 11V1 Latest edition. The hydraulic pump shall be tested 1.5 times of the rated working pressure. A Pressure Test Certificate along with the Test Recorder Chart is to be submitted along with the unit.</p> <p>c) A suitable safety release valve to be provided to ensure pressure does not rise drastically above 5000 psi, ensuring safety of operator and the GLVs'. The Safety release valve shall be fitted on the body of the Pressure Chamber (Valve Ager) at a convenient location.</p>

			<p>A conveniently located and easily operated soft touch release valve should be fitted over the chamber for ease of operation.</p> <p>d) The Ager/ Pressure chamber should be designed considering all safety factors using heavy wall sections and a firm base/ tripod which shall also be easily transportable/ repositionable with suitable numbers of lifting lugs.</p> <p>e) The top cover of the chamber should be coupled with firm square threads and sturdy handles for quick dismantling and large section standard O-Rings</p> <p>f) The ager should be internally and externally coated with suitable anti corrosive Coatings</p>
05	Clause No. 1.0 (iv)	<p>Water Bath: Water bath vessel for controlling the temperature of the water bath at 15.5 Deg. C (60 Deg. F) as per API specification 11V1 complete with temperature gauge, chest type deep freezer modified with thermostat to regulate temperature and stainless steel pan manufactured to sit inside the chest freezer and to hold water and place the valves inside for cooling to 15.5 Deg. C (60 Deg. F)</p> <p>Quantity: 01 (one) number.</p>	<p>Water Bath [Quantity: 01 (one) number]:</p> <p>a) Valve cooler or Water bath vessel for controlling the temperature of the water bath at 15.5 Deg. C (60 Deg. F) as per API specification 11V1.</p> <p>b) It should be complete with an electronic thermostat which can be used to set the bath at desired temperature with a digital read out at least up to once decimal place.</p> <p>c) The bath should have capacity to hold vertically more than 10 nos. of 1.1/2" and 1" valves both wire line retrievable and conventional as per appendix B of API 11V1 at any given point of time firmly held in place having ease of insertion and removal.</p> <p>d) The temperature gauge for water bath shall be both analogue and digital. The digital gauge should be installed on the bath along with the temperature controller. The analogue gauge shall have maximum 2°F (1°C) per division.</p>
06	Clause No. 1.0 (v)	<p>v. Gas lift valve probe: For measuring low gas flow rate at the downstream side of gas lift valve at specified temperature or ambient temperature. Gas lift valve probe test fixture for testing 25.4 mm (1") and 38.1 mm (1.1/2") gas lift valves complete with isolating valves, pressure gauge, micrometer, digital multimeter</p>	<p>Gas lift valve probe [Quantity: 01 (one) number]:</p> <p>a) Gas lift valve probe test fixture for testing 25.4 mm (1") and 38.1 mm (1.1/2") gas lift valves complete with isolating valves, pressure gauge, micrometer, digital multimeter and probe complete with necessary tools & fittings for measuring low gas flow rate at the downstream side of gas lift valve at specified temperature or</p>

	<p>and probe along with assorted tools to be used in conjunction with item No. (i)</p> <p>Quantity: 01 (one) number.</p>	<p>ambient temperature.</p> <p>b) The Probe test unit should be fitted and coupled on the test bench. The unit shall be able to suitably disassemble from the test rack to be position elsewhere.</p> <p>c) All fixtures required to hold the gas lift valve and maintain pressure tight seal during probe testing shall be provided which shall be as per the appendix B of API specification 11V1 latest edition.</p> <p>d) The micro-meter used to measure the stem travel as pressure applied to the bellows should have a least count of .001" (0.02mm)</p> <p>e) The rod of the probe should be electrically insulated from the valve and contact with the ball stem shall be determined only by a continuity tester that electronically measures the flow current. The probe rod should be suitable to be used with port sizes of minimum 5/32".</p>																																																			
<p>Clause No. 1.0 (vii)</p>	<p>Fluid filled Pressure Gauge of 254.00 mm (10") dial size</p> <p>Quantity: 01 (one) number.</p>	<p>MANDATORY TOOLS & ACCESSORIES TO BE SUPPLIED AS PER THE LIST GIVEN BELOW: -</p> <table border="0"> <thead> <tr> <th style="text-align: left;">Sl. No.</th> <th style="text-align: left;">Description</th> <th style="text-align: left;">Qty.</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>1.1/8" STRAP WRENCH</td> <td>2 Nos.</td> </tr> <tr> <td>2.</td> <td>1" STRAP WRENCH</td> <td>2 Nos.</td> </tr> <tr> <td>3.</td> <td>1.1/2" STRAP WRENCH</td> <td>2 Nos.</td> </tr> <tr> <td>4.</td> <td>EXTERNAL SNAP RING PLIERS</td> <td>2 Nos.</td> </tr> <tr> <td>5.</td> <td>NEEDLE NOSE PLIERS</td> <td>4 Nos.</td> </tr> <tr> <td>6.</td> <td>DRILL CORE TOOL (FOR 1"&1.1/2"GLV)</td> <td>2 Nos. for each size</td> </tr> <tr> <td>7.</td> <td>"O" RING PICK SET</td> <td>2 Sets.</td> </tr> <tr> <td>8.</td> <td>TEST SLEEVE FOR 1" PRESSURE VALVES</td> <td>2 Nos.</td> </tr> <tr> <td>9.</td> <td>TEST SLEEVE FOR 1 -1/2" PRESSUREVALVES</td> <td>2 Nos.</td> </tr> <tr> <td>10.</td> <td>TOOL FOR TESTING 1" BACK CHECK ASSEMBLIES</td> <td>1 Set</td> </tr> <tr> <td>11.</td> <td>COMBINATION BENCH GRINDER AND BUFFER</td> <td>1 No.</td> </tr> <tr> <td>12.</td> <td>SET OF 1/4" QUICK DISCONNECTS</td> <td>4 Sets.</td> </tr> <tr> <td>13.</td> <td>Pr release tool for 1" GLV</td> <td>1 No.</td> </tr> <tr> <td>14.</td> <td>Pr release tool for 1-1/2" GLV</td> <td>1 No.</td> </tr> <tr> <td>15.</td> <td>Seat Remover Rod</td> <td>2 Nos.</td> </tr> <tr> <td>16.</td> <td>Seat Installer</td> <td>2 Nos.</td> </tr> </tbody> </table> <p>NOTE: i) THESE ABOVE TOOLS & ACCESSORIES ARE MANDATORY. THE BIDDER SHALL SUPPLY THESE TOOLS & ACCESSORIES ALONG WITH THE UNIT. THE PRICE QUOTED FOR MANDATORY TOOLS & ACCESSORIES WILL BE TAKEN IN TO ACCOUNT FOR BID EVALUTION.</p>	Sl. No.	Description	Qty.	1.	1.1/8" STRAP WRENCH	2 Nos.	2.	1" STRAP WRENCH	2 Nos.	3.	1.1/2" STRAP WRENCH	2 Nos.	4.	EXTERNAL SNAP RING PLIERS	2 Nos.	5.	NEEDLE NOSE PLIERS	4 Nos.	6.	DRILL CORE TOOL (FOR 1"&1.1/2"GLV)	2 Nos. for each size	7.	"O" RING PICK SET	2 Sets.	8.	TEST SLEEVE FOR 1" PRESSURE VALVES	2 Nos.	9.	TEST SLEEVE FOR 1 -1/2" PRESSUREVALVES	2 Nos.	10.	TOOL FOR TESTING 1" BACK CHECK ASSEMBLIES	1 Set	11.	COMBINATION BENCH GRINDER AND BUFFER	1 No.	12.	SET OF 1/4" QUICK DISCONNECTS	4 Sets.	13.	Pr release tool for 1" GLV	1 No.	14.	Pr release tool for 1-1/2" GLV	1 No.	15.	Seat Remover Rod	2 Nos.	16.	Seat Installer	2 Nos.
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			<p>ii) COST OF ABOVE TOOLS & ACCESSORIES ARE TO BE QUOTED ALONG WITH BASIC MATERIAL VALUE UNDER PRICE BID FORMAT AND BREAK OF INDIVIDUAL TOOLS & ACCESSORIES ARE TO BE INDICATED SEPERATELY.</p>
	<p>Clause No. 1.0 (viii)</p>	<p>Addition of New Clause</p>	<p>viii. RECOMMENDED SPARES : -</p> <p>Additionally, the bidder shall furnish a list of recommended spares & components such as – All Valves, All Pressure Gauges, Expanders, Reducers, Hoses, Fittings, Connectors, O – Rings for 1" & 1.1/2" Test Sleeve etc. which are not included in mandatory tools & accessories above that may be required for regular operation and maintenance, overhauling etc. throughout the life of the equipment complete with Part No, Unit price and annual consumption pattern of them. THE PRICE QUOTED FOR RECOMMENDED SPARES WILL NOT BE TAKEN IN TO ACCOUNT FOR BID EVALUTION. OIL shall have the right to procure and include them in its inventory as and when required.</p>

Bidders must submit duly filled the following technical evaluation matrix along with their techno-commercial bid.

TECHNICAL EVALUATION MATRIX (TO BE FILLED IN BY BIDDER & DULY SIGNED)				
ITEM SPECIFICATION				
Clause No.	DESCRIPTION	BIDDER'S RESPONSE (Complied / Not Complied /Deviation/ Not Applicable)	Relevant supporting document submitted (Yes/No)	File Name & Page no of bid document for the supporting document submitted
1.0	Gas Lift Valve Test Lab (Static & Dynamic) for setting and testing gas lift valves manufactured as per the following applicable standards & having the following technical specifications: - Applicable Standards: v) API-11V1 vi) ANSI/ASME BPVC, Sec VIII, Div 1 & 2 (For Surge & Other Vessels) vii) ANSI/ASME B31.8 (For Piping) viii) ANSI/ASME B16.5 (For Flanges) ix) ANSI/ASME B16.34 (For Valves)			
i.	Gas Lift Valve Test rack (Sleeve Tester) [Quantity: 01 (one) number]: c) Gas Lift Valve Test rack (Sleeve Tester) for safe and quick setting/ calibration /testing of 25.4 mm (1") O.D. and 38.1 mm (1.1/2") O.D. GLV complete with isolating valves, sockets, piping, manifold, O – Rings, equipped for quick open/shut to isolate test sleeves, N ₂ gas inlet and bleed off equipped with test valves, high pressure hoses etc. d) Test rack should be complete with relief valves and connections inlet N ₂ Gas Supply, pressure gauge port to connect to below listed gauge (Item No. ii) with high pressure hoses, and capable of handling working pressure of 2000 psi			
ii	Pressure Gauges: f) Pressure gauges for Test Bench and probe test fixture shall be High precision dial type pressure gauge having Dial Diameter of 300.00 mm (12"), knife edge pointer having pressure range of 0 – 105 kg/cm ² (0 – 2000 PSI) with 0.14 Kg/cm ² (2 PSI) gradations fitted with 1/2" NPT end connections for above sleeve tester for wall mount/installed with Test Bench/ Lab. g) Pressure gauges for Aging chamber shall be of 6" Dial Diameter with a pressure rating of 10000 psi. h) Pressure gauge for probe test shall be of 6" Dial Diameter with a pressure rating of 2000 psi and 5 psi least count. i) One set of all pressure gauges shall be provided as extra j) Certificate of calibration shall be submitted along with the supply			
iii	Pressure Chamber (Valve Ager) with Pump [Quantity: 01 (one) number] g) The pressure chamber or Gas Lift Valve Ager should be made of material conforming to ASME/ API Standards for high pressure parts capable to operating at least at 350 Kg/cm ² (5000			

	<p>PSI) pressure and should be able to hold a minimum of 10 nos. 25.4 mm (1”) and 38.1 mm (1.1/2”) gas lift valves preferably in a vertical position firmly held in place having ease of insertion and removal. The Pressure Chamber (Valve Ager) shall be tested 1.5 times of the rated working pressure. A Pressure Test Certificate along with the Test Recorder Chart is to be submitted along with the unit.</p> <p>h) A removable manually operated hydraulic pump (Water as working medium) capable to generate working pressure of 5000 psi of reputed make to be supplied along with the Ager/ pressure chamber complete with all necessary tools, pressure gauges, fittings etc. as per API specification Appendix B of 11V1 Latest edition. The hydraulic pump shall be tested 1.5 times of the rated working pressure. A Pressure Test Certificate along with the Test Recorder Chart is to be submitted along with the unit.</p> <p>i) A suitable safety release valve to be provided to ensure pressure does not rise drastically above 5000 psi, ensuring safety of operator and the GLVs’. The Safety release valve shall be fitted on the body of the Pressure Chamber (Valve Ager) at a convenient location.</p> <p>A conveniently located and easily operated soft touch release valve should be fitted over the chamber for ease of operation.</p> <p>j) The Ager/ Pressure chamber should be designed considering all safety factors using heavy wall sections and a firm base/ tripod which shall also be easily transportable/ repositionable with suitable numbers of lifting lugs.</p> <p>k) The top cover of the chamber should be coupled with firm square threads and sturdy handles for quick dismantling and large section standard O-Rings</p> <p>l) The ager should be internally and externally coated with suitable anti corrosive Coatings.</p>			
<p>iv</p>	<p>Water Bath [Quantity: 01 (one) number]:</p> <p>e) Valve cooler or Water bath vessel for controlling the temperature of the water bath at 15.5 Deg. C (60 Deg. F) as per API specification 11V1.</p> <p>f) It should be complete with an electronic thermostat which can be used to set the bath at desired temperature with a digital read out at least up to once decimal place.</p> <p>g) The bath should have capacity to hold vertically more than 10 nos. of 1.1/2” and 1” valves both wire line retrievable and conventional as per appendix B of API 11V1 at any given point of time firmly held in place having ease of insertion and removal.</p> <p>h) The temperature gauge for water bath shall be both analogue and digital. The digital gauge should be installed on the bath along with the temperature controller. The analogue gauge shall have maximum 2°F (1°C) per division.</p>			

<p>v</p>	<p>Gas lift valve probe [Quantity: 01 (one) number]:</p> <p>f) Gas lift valve probe test fixture for testing 25.4 mm (1") and 38.1 mm (1.1/2") gas lift valves complete with isolating valves, pressure gauge, micrometer, digital multimeter and probe complete with necessary tools & fittings for measuring low gas flow rate at the downstream side of gas lift valve at specified temperature or ambient temperature.</p> <p>g) The Probe test unit should be fitted and coupled on the test bench. The unit shall be able to suitably disassemble from the test rack to be position elsewhere.</p> <p>h) All fixtures required to hold the gas lift valve and maintain pressure tight seal during probe testing shall be provided which shall be as per the appendix B of API specification 11V1 latest edition.</p> <p>i) The micro-meter used to measure the stem travel as pressure applied to the bellows should have a least count of .001" (0.02mm)</p> <p>j) The rod of the probe should be electrically insulated from the valve and contact with the ball stem shall be determined only by a continuity tester that electronically measures the flow current. The probe rod should be suitable to be used with port sizes of minimum 5/32".</p>			
<p>vi</p>	<p>Valve Leakage Test Rack [Quantity: 01 (one) number]: Valve Leakage Test Rack for measuring low gas flow rates on the downstream side of the gas lift valves [25.4 mm (1") & 38.1 mm (1.1/2") sizes] complete with necessary hose & fittings, gas flow-meter/manometer as per API specification 11V1.</p>			
<p>vii</p>	<p>MANDATORY TOOLS & ACCESSORIES TO BE SUPPLIED AS PER THE LIST GIVEN BELOW: -</p> <p>Sl. No. Description (Qty.)</p> <ol style="list-style-type: none"> 1. 1.1/8" STRAP WRENCH (2 Nos.) 2. 1" STRAP WRENCH (2 Nos.) 3. 1.1/2" STRAP WRENCH (2 Nos.) 4. EXTERNAL SNAP RING PLIERS (2 Nos). 5. NEEDLE NOSE PLIERS (4 Nos.) 6. DRILL CORE TOOL (FOR 1"&1.1/2"GLV) (2 Nos. for each size) 7. "O" RING PICK SET (2 Sets.) 8. TEST SLEEVE FOR 1" PRESSURE VALVES (2 Nos.) 9. TEST SLEEVE FOR 1 -1/2" PRESSUREVALVES (2 Nos.) 10. TOOL FOR TESTING 1" BACK CHECK ASSEMBLIES (1 Set) 11. COMBINATION BENCH GRINDER AND BUFFER (1 No.) 12. SET OF 1/4" QUICK DISCONNECTS (4 Sets.) 13. Pr release tool for 1" GLV (1 No.) 14. Pr release tool for 1-1/2" GLV (1 No.) 15. Seat Remover Rod (2 Nos.) 16. Seat Installer (2 Nos.) <p>NOTE: i) THESE ABOVE TOOLS & ACCESSORIES ARE</p>			

	<p>MANDATORY. THE BIDDER SHALL SUPPLY THESE TOOLS & ACCESSORIES ALONG WITH THE UNIT. THE PRICE QUOTED FOR MANDATORY TOOLS & ACCESSORIES WILL BE TAKEN IN TO ACCOUNT FOR BID EVALUTION.</p> <p>ii) COST OF ABOVE TOOLS & ACCESSORIES ARE TO BE QUOTED ALONG WITH BASIC MATERIAL VALUE UNDER PRICE BID FORMAT AND BREAK OF INDIVIDUAL TOOLS & ACCESSORIES ARE TO BE INDICATED SEPERATELY.</p>			
viii	<p>RECOMMENDED SPARES : - Additionally, the bidder shall furnish a list of recommended spares & components such as – All Valves, All Pressure Gauges, Expanders, Reducers, Hoses, Fittings, Connectors, O – Rings for 1” & 1.1/2” Test Sleeve etc. which are not included in mandatory tools & accessories above that may be required for regular operation and maintenance, overhauling etc. throughout the life of the equipment complete with Part No, Unit price and annual consumption pattern of them. THE PRICE QUOTED FOR RECOMMENDED SPARES WILL NOT BE TAKEN IN TO ACCOUNT FOR BID EVALUTION. OIL shall have the right to procure and include them in its inventory as and when required.</p>			