**ANNEXURE-A**

**Schedule of Requirement (SOR)**

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| **Sr. No** | **Item Description and Specifications** | **QTY** | **Unit Price** |
| **Services for Repair of LPG Bullet (V-113A)** | | | |
| 01. | Technical Services required for the Repair of LPG Bullet V-113A as per detailed methodology mentioned below, at OGDCL Dakhni Gas Processing Plant Tehsil Jand Distt Attock | 01 | Lump Sum |

**SCOPE OF WORK:**

1. Reference Inspection Report No: 5004, dated 28-12-2017, following inspection observations were recorded:
2. Sharp Grinding/ Cut mark of depth up to3 mm and length 30 mm observed on inside weld no CS4. Location distance from tee joint (LS3-CS4) 1520 mm observed. (Mark inside & outside of Shell area). Weld build-up as per specification has been recommended for safe operating of the vessel.
3. Corrosion observed of 06 in number of top Nozzle reinforcement pad + fillet weld area heaving. Nozzle # 01 Area 100 x 40 mm and depth 5 mm. Nozzle # 03 Area 80 x 40 mm & depth 4.5 mm. Weld build has been recommended.
4. Weld build-up refers specifically to the application of Carbon Steel or Low Alloy Weld Metal, applied for the purpose of restoring base metal thickness. Following action shall be exercised during restoration of vessel thickness:
5. Prior to start weld deposition on external surface, visual inspection shall be carried out.
6. Weld Metal shall be deposited into grooves/ pits through approved Welding Procedure Specifications (WPS).
7. Inter pass temperature shall not be increased during build up. (Maximum Limit as per approved WPS).
8. Make sure effective inter pass cleaning.
9. All build up areas shall be ground flush in order to smooth external vessel surface.
10. Visual inspection shall be carried out on all build up areas after flushing in order to satisfy that all areas are free of surface defects.
11. Thickness Monitoring shall be carried out in order to ensure that vessel thickness has been restored sufficiently.
12. DPT & MPT shall be carried out on all build up areas and adjacent surfaces in order to satisfy that no defect is present in build up areas and adjacent surfaces.

**TERMS AND CONDITIONS FOR SERVICES:**

1. The supplier should have minimum of 05 Years of past experience for undertaking repair work on Pressure Vessels for similar scope
2. **Delivery period for required services is 5-6 weeks from the date of issuance of Purchase order.**
3. Inspector API 510 must be present at site during repair job.
4. Inspection report after completion of job will be submitted by Company/Contractor.
5. Third party inspection will be carried & if job rejected , contractor will rectify the job at his own cost.
6. The tender committee reserves the right to increase or decrease the work or may cancel any or all job mentioned in SOR without assigning any reason thereof.
7. Bidder to provide all necessary documents like Annex-C (Tax), Professional Tax Certificate etc with invoice.