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Demolishing and Installation of Machinal Stainless Steel Piping Works Proposal

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1. Introduction

The General Electric Company (**GE** GAS POWER), represented by the Procurement Division, intends to do Demolishing and Installation of Machinal Stainless Steel Piping works at Waad Al Shamal Power Station Project, Turaif, Kingdom of Saudi Arabia. Our technical team evaluated furnished documents and provided the below offer.

2. Scope of Work

The Project calls for the Demolishing and Installation of Machinal Stainless Steel Piping works in the following area, as per information furnished by client, …

- **Item No 1: Filtered Water / Desal Water / Raw Water and EDI lines**
  - All Lines need to be demolished / stored at GE warehouse,
  - Installation of 1180 meter with Almost **3085** Inch Diameter Inch of SS lines with different Sizes as per attached MTO / ISO Metric.

- **Item No 2: EDI Diffuser**
  - Removing 2 Inch Diffuser from the tanks/ cutting the tanks shell and replace the Nozzle by 4-inch Nozzle,
  - Installation of 4 Inch Down comer inside the tanks X2, as Per attached Drawing,
  - Diffuser specification need to follow as per Attached Drawings,
  - Fabrication of diffuser itself,
  - general cleaning inside the tank,

- **Item No 3: MBR system**
  - Demolishing and installation of SS lines,
  - Replacing and installing 70 Meter of SS lines with different diameter as Per attached MTO.

Inclusions:

- Supply of qualified manpower, food transportation and accommodation.
- PPE, Hand & Power Tools and any other tools required to perform job.
- Supervision Team.
- Transferring Scrap materials to GE yard,
- ITP shall be followed for all SS lines if applicable,
- Exist valves / Bolts need to be cleaned and installed only again in good condition,

- Exist supports will be cleaned and installed only again,
- Any other materials rather than Piping / Fittings (Elbows/ nipples /gaskets) / Valves and Supports will be Bidder responsibility, including but not limited to Painting, welding consumables, lifting equipment, etc.,
- General Housekeeping shall be done after work completion,
- Red correx / As Built shall be submitted by bidder if required,
- Scaffolding / Cranes and any other materials required for installation,
- Loading / unloading of materials from warehouse to site,
- NDE- RT and/or PAUT on random based 30%, In case of no Hydrotest- RT and/or PAUT 100% / Plus 100 % PT,
- Passivation of outside welding only - 100%,
- Treated water shall be used for hydrotest,
- Some Lines shall be dried Purged under Nitrogen,
- Before Operational Line need to be flushed,
- Workshop preparation.

Exclusions:

- Gate passes/Permits to all our Crew, which may include our Hired Labor if required.
- Electricity- 3 Phase /other Yard Facilities
- Covered workshop space & Material storage.
- Site Office for our Site in charge / Supervisory.
- Resting place for our Crew.
- Any works other than mentioned.
- Any Special tools other than the required to finalize the mentioned scope of work.
- Demineralized water used for hydrotest, cleaning, flushing and etc…,
- Passivation of any other material other than the welding joints.

3. Duration

Duration required for this project is two months for item # 1 and one week for item # 2, after permit to work approval by GE and welders' qualification on site (if required by GE).

4. Technical Approach

Our approach to this Project is based on dividing this task into four sequential Stages Phase I, II, III and Phase IV. The approach, to be used for each phase, will now be presented in some detail hereinafter.

Work Execution

4.1 Jobsite Clearance (Phase I)

In this stage and based on Site requirement, with 21 days' notice to start, PRIZM ENERGY team will start mobilization, will do investigation to job site, material inspection, preparation of work plan, and raise report for client in case any discrepancies or material shortage is found.
Once jobsite is clear, PE to submit Method Statement and Risk Assessment to client for approval. Once obtained, team will start securing access ways with Warning Tape and utilize existing Barricades to confirm that site is safe and ready for commencement.

4.2 Demolition of old piping (Phase II)

- Build Scaffolding in GT building.
- Cutting of piping and lowering to assembly point
- Transfer of old piping to GE yard

4.3 Installation of new piping (Phase III)

- Transfer New piping from GE yard.
- Lifting new piping into position.
- Installation of new piping.

4.4 Inspection and Quality Handover (Phase IV)

- NDT to be Done as per client requirement (30% RT)
- Flushing of all lines as per standards.
- PE Team to raise RFI to GE team to hand over work, work to be divided by area or quantitively as per client requirements.

5. Work Force Deployment

As per MSRA.

6. Price

Cost of above-mentioned works is as per attached priced Table of Quantities.

7. Payment Terms

TBD

8. Force Majeure

Our offer is governed by Standard force majeure clause prevailing in KSA.
We hope we are in line with your requirements

9. Validity of offer

Our offer is kept valid for a period of 30 Days from the date for submission.

10. Attachments

1. **Addendum I**: Priced Table of Quantities.
2. **Addendum II**: MTO / ISO Metric.

Addendum I (Prices)

Sr.	Work description	Unit	QTY	Unit Price	Amount		Materials
1	**Mobilization & Demobilization**	LS	1	90000	USD	90,000.00	
2	**Filtered , Desal., Raw Water & EDI Lines**						
2.1	Demolishing Of Current Stainless steel Pipe Lines	Meter	1180	97	USD	114,460.00	NA
2.2	Installation of Same SS lines at same Location	INCH DIA	3085	132	USD	407,220.00	By GE
3	**MBR System**						
3.1	Demolishing of MBR stainless steel Piping	Meter	70	97	USD	6,790.00	NA
3.2	Installation of MBR Stainless Steel Piping	INCH DIA	1024	132	USD	135,168.00	BY GE
4	**Diffuser System**						
4.1	Demolishing of Diffuser outside the Water Tanks	Meter	80	97	USD	7,760.00	NA
4.2	Installation of Diffuser outside the Water Tanks	INCH DIA	204	132	USD	26,928.00	BY GE
4.3	Demolishing of Diffuser inside the Water Tanks	Meter	36	97	USD	3,492.00	NA
4.4	Installation of Diffuser inside the Water Tanks	INCH DIA	48	187	USD	8,976.00	BY GE
					USD	**800,794.00**	