



Pakistan State Oil Company Limited

PSO House, Khayaban-e-Iqbal, Clifton, Karachi-75600, Pakistan
Telephone (021) 9203866-85 Fax (021) 9203796

PAGE

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RFQ No	IC-19810FF	
DATE	21.07.2026	

REQUEST FOR QUOTATION

(THIS IS PRICE ENQUIRY-NOT AN ORDER)

SAP No.6100017486

Company PSO Dummy Vendor
PAKISTAN

QUOTATION REQUIRED

ON
(Date)

06.08.2026

BY
(Time)

Please quote your best price for all items of following specifications. Please read the instructions attached herewith Rs. _____ EARNEST MONEY %
PO/DD NO. _____

Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1	<u>Services (T-09)</u>	<u>Zot (Inst.)</u>				
1.01	<u>Internal Cleaning of Tank</u> General Cleaning of tank Job includes removal and shifting of the contaminated mud, clay and other unusable material out of the tank and its disposal as per instruction of PSO Engineer. Sludge removal from tank is not included in this item. NOTE: Contractor will ensure that working area / tank bottom is free of oil(<> ,<)> oil soaked garbage / cotton waste (if required soaking may be done through laying of sand, saw dust etc to be provided by contractor(>,<)> without any additional cost) to avoid potential fire hazards. Furthermore contractor will arrange (if necessary) high volume exhaust fans to make the tank ready for hot work.		EA	1		
1.02	<u>Cutting, removal of steel structure</u> ----- Rehabilitation Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m) ----- Salient Scope of Work (T-09): ,,#,,,#,,#,, 1,,Mechanical Works as per NDT inspection and subsequent approval by PSO.,, 2,,Rehabilitation of existing ring wall foundation, as per the consultant's recommendation.,,		KG	31,000.00 0		



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1.03	3,,Installation of Sprinkler System.,, 4,,Replacement of Peripheral seal of External Floating Roof.,,##,##,## 5,,Testing of the tank, which includes Hydrostatic testing, Vacuum Box Testing, RT, MPI, DPT, Radiography etc complete in all respects. 6,,Surface preparation and painting of Tank & Pipeline. 7,,Installation of Double block and bleed valve arrangement on receipt / delivery pipeline.,, 8,,Box-up for commissioning for tank.,,##,##,##,##, ----- Cutting of Existing Structure Cutting, removal and dismantling of the existing Structure, Steel Plates, Staircase, Supports, walkways, Platforms, Railings, pipe bridge <>,<> shed etc. as per instructions of PSO Project Engineer. The job also includes stacking of the same structure within the Terminal premises of PSO as per instruction of PSO Project Engineer. Note: All types of consumables (gas etc.) & scaffoldings required for the cutting, removal & dismantling job shall be provided by Contractor<>,<> without any additional cost. FABRICATION WORKS Fabrication Works on Tank		KG	31,000.00 0		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1.04	Fabrication, erection, installation & welding of tank shell, shell strips, shell insertion plates, tank doublers, bottom & annular plates, roof & all structure steel works for supporting tank roof, nut bolts in roof structure, top railing, curb angles, tank appurtenances such as nozzles & manholes with flanges & covers including stud bolts and nut bolts, spiral stair ways, splash plates, z-hooks, water draw off piping with supports & fittings, tank internal product lines / pipes with supports & fittings, center sump, datum plates, painter & fabricator hooks, nozzles, water drain channel on tank shell with drains, crossover platforms, pipe sleepers, field supports, foam / water sprinkler supports etc. complete in all respect in accordance with specs., drawings and instructions of PSO site engineer. Job also includes shifting (including loading and unloading) materials required to carryout the above work from site store to work site as per instruction of PSO site engineer. All handling, supporting, lifting, laying, placing in position, aligning, cutting, machining, bending, rolling, forging, drilling, grinding, fabrication and welding in position of steel plates, structural and or other similar material as required for the construction of the above defined items of works is included in this item. NOTE: Cost of welding qualification procedure tests, destructive tests from shipyard (or other PSO approved company) & welder tests are included in scope. The contractor shall submit his welding procedure and reports to the owner's representative for approval. All types of consumables (welding electrodes, gas etc.) required for the fabrication, erection, installation & welding job shall be provided by Contractor, without any additional cost. Services for Pit build up Services for Pit build-ups as per relevant code & specs requirement in		EA	6,000		



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1.05	tank. The job includes gouging, grinding, flushing, welding etc. All welding to be in accordance with relevant standard & done using specified welding procedures Repair of weld seam Repairing of weld seams as per relevant code & specs requirement. The job includes gouging, grinding, removing of old welding, cold cutting/flame cutting, flushing, re-grooving, re-welding, recapping etc. All welding to be in accordance with relevant standard & done using specified welding procedures		M	200		
1.06	SCAFFOLDING Contractor to provide Scaffolding and Stagging Platform in-accordance with Safety requirements for the execution of work for construction. The job includes erection & dismantling of scaffolding / stagging platform for tank (inside and outside) entire mechanical work, grit blasting & painting works inside and outside during the entire course of project. Scaffolding / staging platform shall be the responsibility of contractor. Scope of work also include providing and fixing of of metal planks platform, bracing, provision of step ladders and lifeline, etc. as applicable. The contractor will also bear the cost of third party inspection and certification of the scaffolding. All direct / indirect cost of material, labour, transportation required to carry out the activity is included in this item.		EA	1		
1.07	Grit Blasting Grit Blasting Grit blasting (Local or Imported garnet / copper slag) for outer surface of Tank bottom, shell, roof, underground/above ground pipeline, steel structure to near white metal surface to the satisfaction of PSO Engineer completely stain free surface. Follow the standard of surface preparation to Swedish Standard SIS 055900 Sa-2-1/2 or Steel Structures Painting Council SSPC-SP10 (i.e #near white# blasted finish). Any solvent required clean greasy spots to be supplied by the contractor.		M2	12,500		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1.08	<u>Providing and applying Paint</u> Coating for tanks roof (outer side) etc Coating for tanks roof (outer side), Top railing and allied structure as per specifications attached in Annexure in Painting Specifications (PSO-PS-01). Notes: - Color scheme may change as per PSO requirements. - Minimum no. of coats and Drying Time to be provided in accordance with paint manufacturer recommendations. - Arrangement of Instrument for measurement of paint thickness is included in contractor scope. - Contractor to submit technical literature / brochure of paint and obtain prior approval from PSO before procurement of material.		M2	3,100		
1.09	<u>Providing and applying Paint</u> Coating of tank outer shell / pipeline etc. Coating of Tank outer shell, staircase, platforms, pipeline as per specifications attached in Annexure (PSO-PS-01 Rev-0 dated: 30.08.2019). Notes: - Color scheme may change as per PSO requirements. - Minimum no. of coats and Drying Time to be provided in accordance with paint manufacturer recommendations. - Arrangement of Instrument for measurement of paint thickness is included in contractor scope. - Contractor to submit technical literature / brochure of paint and obtain prior approval from PSO before procurement of material.		M2	5,500		
1.10	<u>Providing and applying Paint</u> Coating of Tank outer shell / pipeline etc (Existing paint available) Coating of Tank outer shell, staircase, platforms, pipeline as per		M2	10		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1.11	specifications attached in Annexure (PSO-PS-01 Rev-0 dated: 30.08.2019). Notes: - Color scheme may change as per PSO requirements. - Minimum no. of coats and Drying Time to be provided in accordance with paint manufacturer recommendations. - Arrangement of Instrument for measurement of paint thickness is included in contractor scope. - Contractor to submit technical literature / brochure of paint and obtain prior approval from PSO before procurement of material. <u>Application of Epoxy primer</u> High Build Epoxy Primer Supply and application of High Build Epoxy Primer of PSO's approved make on the bottom plates, internal structural steel, etc. as per instructions of PSO Engineer to a DFT of 100 microns in a min. of two coats. Job should be done according to applicable codes, standards, as per specifications of Paint manufacturer and as per instructions of PSO Engineer.		M2	3,860		
1.12	<u>Application of Epoxy finish coat</u> High Build Epoxy Finish Supply and application of High Build Epoxy Finish Coat of PSO's approved make on the bottom plates, internal structural steel, etc. as per instructions of PSO Engineer to a DFT of 250 microns in min. of two coats. Job should be done according to applicable codes, standards, as per specifications of Paint manufacturer and as per instructions of PSO Engineer.		M2	3,860		
1.13	<u>Mechanical cleaning</u> Mechanical cleaning		M2	50		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1.14	Mechanical cleaning of external surface of tank shell, allied pipelines, platform, structural supports, etc. as per instructions of PSO engineer. All equipment, material labour required to be provided by the contractor. <u>Application of Epoxy</u> Coal Tar Epoxy Supply and application of three coats of coal tar epoxy each of 125 microns (of PSO's approved make) on the Bottom Plates, underground Pipeline / Piping etc. as per instructions of PSO engineer. Job should be done according to applicable codes, standards, as per specifications of Paint manufacturer and as per instructions of PSO Engineer. The job also includes the supply & application of Epoxy Primer to a DFT of 75 microns of the same manufacturer (compatible to coal tar epoxy) before applying coal tar epoxy as per instructions of PSO engineer.		M2	40		
1.15	<u>Coating of Projection plate</u> Coating on Tank Projection Plate Supply and application of Coating on projection plate as per attached specification (PSO-PS-01 Rev-0 dated: 30.08.2019).		M	200		
1.16	<u>Stencilling on Tanks</u> Stenciling on tank ,, Stenciling on tank covering tank dia, tank height, product capacity, year built, last painted etc. as per instruction of PSO engineer. Paint of approved make in black shade to be supplied by the contractor.,,		JOB	1		
1.17	<u>Outlet Name Plate</u> Name plate,, Supply and installation of SS Name plate as per API 650. Job also includes all requirement for installation on tank.,,		EA	1		
1.18	<u>Vacuum box testing</u>		EA	1		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1.19	Vacuum box testing of Bottom,, Vacuum box testing of bottom (after repair of bottom, if required) by vacuum box and soap sud method to detect any leakage. All equipment, tools, material and labor to be provided by the contractor. Vacuum box to be provided by contractor. NOTE: 1 Job includes complete bottom testing after rehabilitation. If partial bottom is required to be done after rehabilitation then reduced payment (quantity) will be paid to the contractor.,, <u>Hydrostatic testing of tank</u> Hydrotesting of Tank,, Hydrotesting of Tank as per relevant code requirement with clean water having PH value in accordance with API 650. However, if corrosion inhibitors and chemicals are to be used then basis for required quantity and other technical details from manufacturer to be shared with PSO prior to execution of work to ensure quality of water as mentioned above. Water and other chemical (if required) for testing to be provided by contractor. All pump(s), pipeline, arrangements, calibrated testing equipments, tools, material, chemicals and labour to be arranged by the contractor. The job also includes draining the water out of the tank and its proper disposal as per the instruction of PSO Site Engineer.,, Note:,, 1. Cost for water testing to ensure specification of water will be borne by contractor. ,, 2. Water test will be conducted from reputable lab as per satisfaction of PSO Engineer. 3. Activity should not cause any hindrance to routine PSO Terminal Operations.,,		EA	1		
1.20	<u>Vacuum box testing of roof</u> Vacuum box testing of Roof,, Soap sud / Vacuum box testing of roof and pressure testing of reinforcement pads/doublers by compressor. Equipment to be supplied by contractor. NOTE: 1 Job includes complete roof testing after rehabilitation. If		EA	1		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1. 21	partial roof is required to be done after rehabilitation then reduced payment (quantity) will be paid to the contractor.,, Calibration of Tank Calibration of the tank,, Calibration of the tank by optistrap method any reputable firm. The scope of work also include preparation and submitting of the calibration charts on the specified format after obtaining approval from PAK PWD and other Govt. agencies if required,,		JOB	1		
1. 22	Oil Penetrant Testing Oil penetration testing of the tank,, Oil Penetration testing of tank Shell-Bottom joint (root). All equipment and consumables to be provided by the contractor. 1 Job includes complete shell-bottom joint testing. If partial testing is required, then reduced payemnt (quantity) will be paid to the contractor accordingly. Testing as per relevant standards.,,		JOB	1		
1. 23	Leak Testing of Nozzles Leak testing of nozzles,, Pressurized pneumatic leak testing of shell nozzles and reinforcement pads. All equipment and consumables to be provided by the contractor. Testing as per relevant standards.,,		EA	5		
1. 24	Radiographic Testing Radiographic Testing of the tank,, Radiographic Testing of Tank (wherever required) as per standard and as per satisfaction of PSO Engineer. All arrangement for Radiographic Testing and availability of equipment to be made availabale by contractor. NOTE: 1 EA includes quantity of film required for T-joints or horizontal / Vertical joints on tank.,,		EA	10		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1.25	<u>Radiographic Testing</u> Radiographic Testing of the Pipeline,, Radiographic Testing of Pipeline (wherever required) as per standard and as per satisfaction of PSO Engineer. All arrangement for Radiographic Testing and availability of equipment to be made availabale by contractor. NOTE: 1 EA includes quantity of film required for T-joints or horizontal / Vertical joints on tank.,, #,, 24" dia,,		EA	3		
1.26	<u>Radiographic Testing</u> Radiographic Testing of the Pipeline,, Radiographic Testing of Pipeline (wherever required) as per standard and as per satisfaction of PSO Engineer. All arrangement for Radiographic Testing and availability of equipment to be made availabale by contractor. NOTE: 1 EA includes quantity of film required for T-joints or horizontal / Vertical joints on tank.,, #,, 20" dia,,		EA	3		
1.27	<u>Radiographic Testing</u> Radiographic Testing of the Pipeline,, Radiographic Testing of Pipeline (wherever required) as per standard and as per satisfaction of PSO Engineer. All arrangement for Radiographic Testing and availability of equipment to be made availabale by contractor. NOTE: 1 EA includes quantity of film required for T-joints or horizontal / Vertical joints on tank.,, #,, 08" dia,,		EA	4		
1.28	<u>Radiographic Testing</u> Radiographic Testing of the Pipeline,,		EA	10		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1.29	Radiographic Testing of Pipeline (wherever required) as per standard and as per satisfaction of PSO Engineer. All arrangement for Radiographic Testing and availability of equipment to be made available by contractor. NOTE: 1 EA includes quantity of film required for T-joints or horizontal / Vertical joints on tank.,, #,, 06" dia.,, <u>Radiographic Testing</u>		EA	5		
1.30	Radiographic Testing of the Pipeline,, Radiographic Testing of Pipeline (wherever required) as per standard and as per satisfaction of PSO Engineer. All arrangement for Radiographic Testing and availability of equipment to be made available by contractor. NOTE: 1 EA includes quantity of film required for T-joints or horizontal / Vertical joints on tank.,, #,, 04" dia.,, <u>Providing MPI test shell/bottom joints</u> Magnetic Partical Inspection of the tank,, Magnetic Particle Testing of Tank (wherever required) as per standard and as per satisfaction of PSO Engineer. All arrangement for Magnetic Particle Inspection and availability of equipment to be made available by contractor. NOTE: 1 Job includes complete shell to bottom joint inspection of tank. ,,		EA	1		
1.31	<u>Dye Penetrant Testing of Tank</u> Dye Penetrant Testing of the tank,, Dye Penetrant Testing of Tank (wherever required) as per standard and as per satisfaction of PSO Engineer. All arrangement for Dye Penetrant Testing to be made by contractor.,,		M	50		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1.32	<u>Dye Penetrant Testing</u> Dye Penetrant Testing of Pipeline,, #,, DPT of weld joints as per ASME Section V,, 24" dia,,		EA	5		
1.33	<u>Dye Penetrant Testing</u> Dye Penetrant Testing of Pipeline,, #,, DPT of weld joints as per ASME Section V,, 20" dia,,		EA	5		
1.34	<u>Dye Penetrant Testing</u> Dye Penetrant Testing of Pipeline,, #,, DPT of weld joints as per ASME Section V,, 08" dia,,		EA	5		
1.35	<u>Dye Penetrant Testing</u> Dye Penetrant Testing of Pipeline,, #,, DPT of weld joints as per ASME Section V,, 06" dia,,		EA	20		
1.36	<u>Dye Penetrant Testing</u> Dye Penetrant Testing of Pipeline,, #,, DPT of weld joints as per ASME Section V,, 04" dia,,		EA	5		
1.37	<u>Dye Penetrant Testing</u> Dye Penetrant Testing of Pipeline,, #,, DPT of weld joints as per ASME Section V,,		EA	5		



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1.38	01" dia,, Dye Penetrant Testing Dye Penetrant Testing of Pipeline,, #,, DPT of weld joints as per ASME Section V,, 01" dia,,		EA	70		
1.39	Dye Penetrant Testing Dye Penetrant Testing of Pipeline,, #,, DPT of weld joints as per ASME Section V,, 3/4" dia,,		EA	35		
1.40	Dye Penetrant Testing Dye Penetrant Testing of Pipeline,, #,, DPT of weld joints as per ASME Section V,, 1/2" dia,,		EA	24		
1.41	Hydrostatic testing of Pipe 24" dia Hydrostatic testing of complete pipeline system as per API. 1110, recommended practice for the pressure testing of liquid petroleum pipelines. All pipeline, testing equipment and labour to be arranged by the contractor. Water for hydrostatic testing to be provided by Contractor.,, #,, 24" dia,,		M	24		
1.42	Hydrostatic testing of Pipe 20" dia Hydrostatic testing of complete pipeline system as per API. 1110, recommended practice for the pressure testing of liquid petroleum pipelines. All pipeline, testing equipment and labour to be arranged by the contractor. Water for hydrostatic testing to be provided by Contractor.,,		M	24		



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Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1.43	#,, 20" dia,, Hydrostatic testing of Pipe 8" dia Hydrostatic testing of complete pipeline system as per API. 1110, recommended practice for the pressure testing of liquid petroleum pipelines. All pipeline, testing equipment and labour to be arranged by the contractor. Water for hydrostatic testing to be provided by Contractor.,, #,, 08" dia,,		M	36		
1.44	#,, 08" dia,, Hydrostatic testing of Pipe 6" dia Hydrostatic testing of complete pipeline system as per API. 1110, recommended practice for the pressure testing of liquid petroleum pipelines. All pipeline, testing equipment and labour to be arranged by the contractor. Water for hydrostatic testing to be provided by Contractor.,, #,, 06" dia,,		M	270		
1.45	#,, 06" dia,, Hydrostatic testing of Pipe 4" dia Hydrostatic testing of complete pipeline system as per API. 1110, recommended practice for the pressure testing of liquid petroleum pipelines. All pipeline, testing equipment and labour to be arranged by the contractor. Water for hydrostatic testing to be provided by Contractor.,, #,, 04" dia,,		M	36		
1.46	#,, 04" dia,, Hydrostatic testing of Pipe 3" dia Hydrostatic testing of complete pipeline system as per API. 1110, recommended practice for the pressure testing of liquid petroleum pipelines. All pipeline, testing equipment and labour to be arranged by the contractor. Water for hydrostatic testing to be provided by		M	6		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1.47	Contractor.,, #.,, 03" dia.,, Hydrostatic testing of Pipe 1" dia Hydrostatic testing of complete pipeline system as per API. 1110, recommended practice for the pressure testing of liquid petroleum pipelines. All pipeline, testing equipment and labour to be arranged by the contractor. Water for hydrostatic testing to be provided by Contractor.,, #.,, 01" dia.,,		M	30		
1.48	Hydrostatic testing of Pipe 3/4" dia Hydrostatic testing of complete pipeline system as per API. 1110, recommended practice for the pressure testing of liquid petroleum pipelines. All pipeline, testing equipment and labour to be arranged by the contractor. Water for hydrostatic testing to be provided by Contractor.,, #.,, 3/4" dia.,,		M	12		
1.49	Hydrostatic testing of Pipe 1/2" dia Hydrostatic testing of complete pipeline system as per API. 1110, recommended practice for the pressure testing of liquid petroleum pipelines. All pipeline, testing equipment and labour to be arranged by the contractor. Water for hydrostatic testing to be provided by Contractor.,, #.,, 1/2" dia.,,		M	6		
1.50	Cutting / Removal of Pipelines 24" dia Cutting, removal and transportation of existing above ground / underground pipeline / pipings and pipe fittings etc. From site within the PSO terminal and stacking the same in position for safe		M	6		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	store-keeping within the depot premises as per sizes below:					
1.51	24" dia Cutting / Removal of Pipelines 20" dia Cutting, removal and transportation of existing above ground / underground pipeline / pipings and pipe fittings etc. From site within the PSO terminal and stacking the same in position for safe store-keeping within the depot premises as per sizes below:		M	6		
1.52	20" dia Cutting / Removal of Pipelines 8" dia Cutting, removal and transportation of existing above ground / underground pipeline / pipings and pipe fittings etc. From site within the PSO terminal and stacking the same in position for safe store-keeping within the depot premises as per sizes below:		M	36		
1.53	08" dia Cutting / Removal of Pipelines 6" dia Cutting, removal and transportation of existing above ground / underground pipeline / pipings and pipe fittings etc. From site within the PSO terminal and stacking the same in position for safe store-keeping within the depot premises as per sizes below:		M	36		
1.54	06" dia Cutting / Removal of Pipelines 4" dia Cutting, removal and transportation of existing above ground / underground pipeline / pipings and pipe fittings etc. From site within the PSO terminal and stacking the same in position for safe store-keeping within the depot premises as per sizes below:		M	270		
	04" dia					



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1.55	Cutting / Removal of Pipelines 3" dia		M	6		
1.56	Cutting / Removal of Pipelines 1" dia Cutting, removal and transportation of existing above ground / underground pipeline / pipings and pipe fittings etc. From site within the PSO terminal and stacking the same in position for safe store-keeping within the depot premises as per sizes below: 01" dia		M	12		
1.57	Cutting / Removal of Pipelines 3/4" dia Cutting, removal and transportation of existing above ground / underground pipeline / pipings and pipe fittings etc. From site within the PSO terminal and stacking the same in position for safe store-keeping within the depot premises as per sizes below: 3/4" dia		M	6		
1.58	Cutting / Removal of Pipelines 1/2" dia Cutting, removal and transportation of existing above ground / underground pipeline / pipings and pipe fittings etc. From site within the PSO terminal and stacking the same in position for safe store-keeping within the depot premises as per sizes below: 1/2" dia		M	6		
1.59	Calibration of equipments Calibration of breather valves,, Calibration of 6 inch dia breather valves as per pressure setting provided by PSO from Third Party having relevant experience. Job include removal, shifting, calibration and installation of equipment complete in all respect.,,		EA	2		
1.60	Jacking Arrangement Jacking Arrangement,,		JOB	1		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1.61	Services for jacking arrangement of floating roof for repair (Qty-132 legs). All necessary tools, equipment, labor etc required for jacking arrangement is to be provided by the contractor. Contractor shall submit the proposed scheme for jacking prior to this activity to PSO's Project Engineer.,, Periphery Seal Periphery Seal,, Replacement of damage polyethylene foam seal. Job includes removal of damaged seal (as per integrity report) and supply and installation of new PE seal. Seal shall be compatible with petroleum product. Job also include all arrangements / materials required for replacement of seal complete in all respect.,,		M	200		
1.62	Teflon Sheet Teflon Sheet,, Replacement of teflon sheet on the platform where rolling ladder moves. Job includes removal of existing teflon sheet and supply and installation of new teflon sheet as per site requirement. Job also include all arrangements / materials required for replacement of sheet complete in all respect.,,		M	30		
1.63	Testing of Pontoons Testing of Pontoons,, Testing of all pontoons of external floating roof as per standard and satisfaction of PSO Engineer. Job include all tools, equipments, materials, testing medium required for successful completion of job,,		JOB	1		
1.64	Replacement of Neoprene Sheet Replacement of neoprene sheet,, Replacement of neoprene sheet of deck support and pontoons. Job includes removal of existing sheet and supply and installation of new neoprene sheet (10mm thickness) as per site requirement. Job also include all arrangements / materials required for replacement of sheet complete in all respect.,,		M2	200		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1.65	<u>Shifting and Placing of Pipes 24" dia</u> Shifting and placing pipes & fittings in position underground , aboveground pipe for welding or screwing, as per sizes below: 24" dia		M	24		
1.66	<u>Shifting and Placing of Pipes 20" dia</u> Shifting and placing pipes & fittings in position underground , aboveground pipe for welding or screwing, as per sizes below: 20" dia		M	24		
1.67	<u>Shifting and Placing of Pipes 8" dia</u> Shifting and placing pipes & fittings in position underground , aboveground pipe for welding or screwing, as per sizes below: 08" dia		M	48		
1.68	<u>Shifting and Placing of Pipes 6" dia</u> Shifting and placing pipes & fittings in position underground , aboveground pipe for welding or screwing, as per sizes below: 06" dia		M	204		
1.69	<u>Shifting and Placing of Pipes 4" dia</u> Shifting and placing pipes & fittings in position underground , aboveground pipe for welding or screwing, as per sizes below: 04" dia		M	36		
1.70	<u>Shifting and Placing of Pipes 3" dia</u>		M	6		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1.71	Shifting and placing pipes & fittings in position underground , aboveground pipe for welding or screwing, as per sizes below: 03" dia <u>Shifting and Placing of Pipes 2" dia</u> Shifting and placing pipes & fittings in position underground <(>,<)> aboveground pipe for welding or screwing, as per sizes below: 02" dia		M	6		
1.72	<u>Shifting and Placing of Pipes 1" dia</u> Shifting and placing pipes & fittings in position underground , aboveground pipe for welding or screwing, as per sizes below: 01" dia		M	30		
1.73	<u>Shifting and Placing of Pipes 3/4" dia</u> Shifting and placing pipes & fittings in position underground , aboveground pipe for welding or screwing, as per sizes below: 3/4" dia		M	12		
1.74	<u>Shifting and Placing of Pipes 1/2" dia</u> Shifting and placing pipes & fittings in position underground , aboveground pipe for welding or screwing, as per sizes below: 1/2" dia		M	6		
1.75	<u>Making weld joints of Pipes 24" dia</u> Making weld / thread joints as per ASME B 31.3 and API 1104 in CS pipe in joining pipe lengths and in welded pipe fittings such as flanges, bends, elbows, reducers tees etc. The job includes beveling, preparation of threads in piping (for threaded piping), flame cutting, grinding etc. All welding to be in accordance with relevant standard & done using		EA	14		



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Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1.76	specified welding procedures:,, Note: ,, 1) The welding of both the faces of S.O. R.F. flanges will be considered as one welding joint.,, 2) The welding joints also includes the tie- connections in the pipelines. Branch pipe connection will be considered for welding joint. ,, #,, 24" dia,, <u>Making weld joints of Pipes 20" dia</u> Making weld / thread joints as per ASME B 31.3 and API 1104 in CS pipe in joining pipe lengths and in welded pipe fittings such as flanges, bends, elbows, reducers tees etc. The job includes beveling, preparation of threads in piping (for threaded piping), flame cutting, grinding etc. All welding to be in accordance with relevant standard & done using specified welding procedures:,, Note: ,, 1) The welding of both the faces of S.O. R.F. flanges will be considered as one welding joint.,, 2) The welding joints also includes the tie- connections in the pipelines. Branch pipe connection will be considered for welding joint. ,, #,, 20" dia,,		EA	18		
1.77	<u>Making weld joints of Pipes 8" dia</u> Making weld / thread joints as per ASME B 31.3 and API 1104 in CS pipe in joining pipe lengths and in welded pipe fittings such as flanges, bends, elbows, reducers tees etc. The job includes beveling, preparation of threads in piping (for threaded piping), flame cutting, grinding etc. All welding to be in accordance with relevant standard & done using specified welding procedures:,, Note: ,, 1) The welding of both the faces of S.O. R.F. flanges will be		EA	45		



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Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1.78	considered as one welding joint.,, 2) The welding joints also includes the tie- connections in the pipelines. Branch pipe connection will be considered for welding joint. ,, #,, 08" dia,, <u>Making weld joints of Pipes 6" dia</u> Making weld / thread joints as per ASME B 31.3 and API 1104 in CS pipe in joining pipe lengths and in welded pipe fittings such as flanges, bends, elbows, reducers tees etc. The job includes beveling, preparation of threads in piping (for threaded piping), flame cutting, grinding etc. All welding to be in accordance with relevant standard & done using specified welding procedures:,, Note: ,, 1) The welding of both the faces of S.O. R.F. flanges will be considered as one welding joint.,, 2) The welding joints also includes the tie- connections in the pipelines. Branch pipe connection will be considered for welding joint. ,, #,, 06" dia,,		EA	80		
1.79	<u>Making weld joints of Pipes 4" dia</u> Making weld / thread joints as per ASME B 31.3 and API 1104 in CS pipe in joining pipe lengths and in welded pipe fittings such as flanges, bends, elbows, reducers tees etc. The job includes beveling, preparation of threads in piping (for threaded piping), flame cutting, grinding etc. All welding to be in accordance with relevant standard & done using specified welding procedures:,, Note: ,, 1) The welding of both the faces of S.O. R.F. flanges will be considered as one welding joint.,, 2) The welding joints also includes the tie- connections in the		EA	40		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1.80	pipelines. Branch pipe connection will be considered for welding joint. ” #,, 04" dia,, <u>Making weld joints of Pipes 3" dia</u> Making weld / thread joints as per ASME B 31.3 and API 1104 in CS pipe in joining pipe lengths and in welded pipe fittings such as flanges, bends, elbows, reducers tees etc. The job includes beveling, preparation of threads in piping (for threaded piping), flame cutting, grinding etc. All welding to be in accordance with relevant standard & done using specified welding procedures:,, Note: ,, 1) The welding of both the faces of S.O. R.F. flanges will be considered as one welding joint.,, 2) The welding joints also includes the tie- connections in the pipelines. Branch pipe connection will be considered for welding joint. ” #,, 03" dia,,		EA	6		
1.81	<u>Making weld joints of Pipes 2" dia</u> Making weld / thread joints as per ASME B 31.3 and API 1104 in CS pipe in joining pipe lengths and in welded pipe fittings such as flanges, bends, elbows, reducers tees etc. The job includes beveling, preparation of threads in piping (for threaded piping), flame cutting, grinding etc. All welding to be in accordance with relevant standard & done using specified welding procedures:,, Note: ,, 1) The welding of both the faces of S.O. R.F. flanges will be considered as one welding joint.,, 2) The welding joints also includes the tie- connections in the pipelines. Branch pipe connection will be considered for welding joint.		EA	14		



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Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1.82	” #,, 02" dia,, <u>Making weld joints of Pipes 1" dia</u> Making weld / thread joints as per ASME B 31.3 and API 1104 in CS pipe in joining pipe lengths and in welded pipe fittings such as flanges, bends, elbows, reducers tees etc. The job includes beveling, preparation of threads in piping (for threaded piping), flame cutting, grinding etc. All welding to be in accordance with relevant standard & done using specified welding procedures:,, Note: ,, 1) The welding of both the faces of S.O. R.F. flanges will be considered as one welding joint.,, 2) The welding joints also includes the tie- connections in the pipelines. Branch pipe connection will be considered for welding joint. ” #,, 01" dia,,		EA	80		
1.83	<u>Making weld joints of Pipes 3/4" dia</u> Making weld / thread joints as per ASME B 31.3 and API 1104 in CS pipe in joining pipe lengths and in welded pipe fittings such as flanges, bends, elbows, reducers tees etc. The job includes beveling, preparation of threads in piping (for threaded piping), flame cutting, grinding etc. All welding to be in accordance with relevant standard & done using specified welding procedures:,, Note: ,, 1) The welding of both the faces of S.O. R.F. flanges will be considered as one welding joint.,, 2) The welding joints also includes the tie- connections in the pipelines. Branch pipe connection will be considered for welding joint. ” #,, 3/4" dia,,		EA	50		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1.84	<u>Making weld joints of Pipes ½" dia</u> Making weld / thread joints as per ASME B 31.3 and API 1104 in CS pipe in joining pipe lengths and in welded pipe fittings such as flanges, bends, elbows, reducers tees etc. The job includes beveling, preparation of threads in piping (for threaded piping), flame cutting, grinding etc. All welding to be in accordance with relevant standard & done using specified welding procedures:,, Note: ,, 1) The welding of both the faces of S.O. R.F. flanges will be considered as one welding joint.,, 2) The welding joints also includes the tie- connections in the pipelines. Branch pipe connection will be considered for welding joint. ,, #,, 1/2" dia,,		EA	99		
1.85	<u>Bolting flanged joints in Pipes 24" dia</u> Bolting-up flanged joints in pipelines / pipings with gaskets in between flanges , as per sizes below. Gaskets will be provided by the contractor. Rates should include cost of gasket rings (150 #, 3mm Thick Compressed Graphite filled, Spiral Wound 304 S.S. Central Ring per ASME B 16.20) , STUD BOLTS (studs with 2 nuts as per ANSI B 16.5, Stud Material A 193 Gr. B7 & Nuts Material A194 Gr 2H) and of specified standards & ratings as per sizes given below:,, #,, 24" dia,,		EA	6		
1.86	<u>Bolting flanged joints in Pipes 20" dia</u> Bolting-up flanged joints in pipelines / pipings with gaskets in between flanges , as per sizes below. Gaskets will be provided by the contractor. Rates should include cost of gasket rings (150 #, 3mm Thick Compressed Graphite filled, Spiral Wound 304 S.S. Central Ring per ASME B 16.20) , STUD BOLTS (studs with 2 nuts as per ANSI B 16.5, Stud Material A 193 Gr. B7 & Nuts Material A194 Gr 2H) and of specified		EA	15		



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1.87	standards & ratings as per sizes given below: 20" dia <u>Bolting flanged joints in Pipes 8" dia</u> Bolting-up flanged joints in pipelines / pipings with gaskets in between flanges , as per sizes below. Gaskets will be provided by the contractor. Rates should include cost of gasket rings (150 #, 3mm Thick Compressed Graphite filled, Spiral Wound 304 S.S. Central Ring per ASME B 16.20) , STUD BOLTS (studs with 2 nuts as per ANSI B 16.5, Stud Material A 193 Gr. B7 & Nuts Material A194 Gr 2H) and of specified standards & ratings as per sizes given below:		EA	12		
1.88	08" dia <u>Bolting flanged joints in Pipes 6" dia</u> Bolting-up flanged joints in pipelines / pipings with gaskets in between flanges , as per sizes below. Gaskets will be provided by the contractor. Rates should include cost of gasket rings (150 #, 3mm Thick Compressed Graphite filled, Spiral Wound 304 S.S. Central Ring per ASME B 16.20) , STUD BOLTS (studs with 2 nuts as per ANSI B 16.5, Stud Material A 193 Gr. B7 & Nuts Material A194 Gr 2H) and of specified standards & ratings as per sizes given below:		EA	10		
1.89	06" dia <u>Bolting flanged joints in Pipes 4" dia</u> Bolting-up flanged joints in pipelines / pipings with gaskets in between flanges , as per sizes below. Gaskets will be provided by the contractor. Rates should include cost of gasket rings (150 #, 3mm Thick Compressed Graphite filled, Spiral Wound 304 S.S. Central Ring per ASME B 16.20) , STUD BOLTS (studs with 2 nuts as per ANSI B 16.5, Stud Material A 193 Gr. B7 & Nuts Material A194 Gr 2H) and of specified standards & ratings as per sizes given below:		EA	38		



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REQUEST FOR QUOTATION

(THIS IS PRICE ENQUIRY-NOT AN ORDER)

SAP No.6100017486

Company PSO Dummy Vendor
PAKISTAN

QUOTATION REQUIRED

ON
(Date)

06.08.2026

BY
(Time)

Please quote your best price for all items of following specifications. Please read the instructions attached herewith Rs. _____ EARNEST MONEY %
PO/DD NO. _____

Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1.90	04" dia Bolting flanged joints in Pipes 3" dia Bolting-up flanged joints in pipelines / pipings with gaskets in between flanges , as per sizes below. Gaskets will be provided by the contractor. Rates should include cost of gasket rings (150 #, 3mm Thick Compressed Graphite filled, Spiral Wound 304 S.S. Central Ring per ASME B 16.20) , STUD BOLTS (studs with 2 nuts as per ANSI B 16.5, Stud Material A 193 Gr. B7 & Nuts Material A194 Gr 2H) and of specified standards & ratings as per sizes given below:		EA	2		
1.91	03" dia Bolting flanged joints in Pipes 2" dia Bolting-up flanged joints in pipelines / pipings with gaskets in between flanges , as per sizes below. Gaskets will be provided by the contractor. Rates should include cost of gasket rings (150 #, 3mm Thick Compressed Graphite filled, Spiral Wound 304 S.S. Central Ring per ASME B 16.20) , STUD BOLTS (studs with 2 nuts as per ANSI B 16.5, Stud Material A 193 Gr. B7 & Nuts Material A194 Gr 2H) and of specified standards & ratings as per sizes given below:		EA	12		
1.92	02" dia Bolting flanged joints in Pipes 1" dia Bolting-up flanged joints in pipelines / pipings with gaskets in between flanges , as per sizes below. Gaskets will be provided by the contractor. Rates should include cost of gasket rings (150 #, 3mm Thick Compressed Graphite filled, Spiral Wound 304 S.S. Central Ring per ASME B 16.20) , STUD BOLTS (studs with 2 nuts as per ANSI B 16.5, Stud Material A 193 Gr. B7 & Nuts Material A194 Gr 2H) and of specified standards & ratings as per sizes given below:		EA	24		
	01" dia					



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1.93	<u>Bolting flanged joints in Pipes 3/4" dia</u> Bolting-up flanged joints in pipelines / pipings with gaskets in between flanges , as per sizes below. Gaskets will be provided by the contractor. Rates should include cost of gasket rings (150 #, 3mm Thick Compressed Graphite filled, Spiral Wound 304 S.S. Central Ring per ASME B 16.20) , STUD BOLTS (studs with 2 nuts as per ANSI B 16.5, Stud Material A 193 Gr. B7 & Nuts Material A194 Gr 2H) and of specified standards & ratings as per sizes given below: 3/4" dia		EA	24		
1.94	<u>Bolting flanged joints in Pipes 1/2" dia</u> Bolting-up flanged joints in pipelines / pipings with gaskets in between flanges , as per sizes below. Gaskets will be provided by the contractor. Rates should include cost of gasket rings (150 #, 3mm Thick Compressed Graphite filled, Spiral Wound 304 S.S. Central Ring per ASME B 16.20) , STUD BOLTS (studs with 2 nuts as per ANSI B 16.5, Stud Material A 193 Gr. B7 & Nuts Material A194 Gr 2H) and of specified standards & ratings as per sizes given below: 1/2" dia		EA	4		
1.95	<u>Unbolting of flanged joints</u> Unbolting flanged joints in pipelines / pipings as per sizes below. 24" dia		EA	1		
1.96	<u>Unbolting of flanged joints</u> Unbolting flanged joints in pipelines / pipings as per sizes below. 20" dia		EA	8		
1.97	<u>Unbolting of flanged joints</u> Unbolting flanged joints in pipelines / pipings as per sizes below.		EA	3		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1.98	08" dia Unbolting of flanged joints Unbolting flanged joints in pipelines / pipings as per sizes below.		EA	2		
1.99	06" dia Unbolting of flanged joints Unbolting flanged joints in pipelines as per sizes below.		EA	15		
2.00	04" dia Unbolting of flanged joints Unbolting flanged joints in pipelines as per sizes below.		EA	2		
2.01	03" dia Unbolting of flanged joints Unbolting flanged joints in pipelines / pipings as per sizes below.		EA	2		
2.02	02" dia Unbolting of flanged joints Unbolting flanged joints in pipelines / pipings as per sizes below.		EA	5		
2.03	01" dia Unbolting of flanged joints Unbolting flanged joints in pipelines / pipings as per sizes below.		EA	5		
2.04	3/4" dia Unbolting of flanged joints Unbolting flanged joints in pipelines / pipings as per sizes below.		EA	3		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
2.05	1/2" dia Installation of Valve 24" dia Placing / removing in position in pipelines / pipings, all ratings / class flanged end or screwed end valves of all types (cast steel / forged steel body gate valve, ball valve, globe valve, check valve with flapper seat of stainless steel type), gauges, strainers, foot valve<(> ,<)> fire water monitors, fire water hydrants, water spray nozzles, expansion joints, or other similar devices having flanged ends or screwed ends as per sizes given below. The job does not include bolting up of flange joints but includes loading transporting and unloading at site all valves etc.		EA	3		
2.06	Installation of Valve 20" dia Placing / removing in position in pipelines / pipings, all ratings / class flanged end or screwed end valves of all types (cast steel / forged steel body gate valve, ball valve, globe valve, check valve with flapper seat of stainless steel type), gauges, strainers, foot valve, fire water monitors, fire water hydrants, water spray nozzles, expansion joints, or other similar devices having flanged ends or screwed ends as per sizes given below. The job does not include bolting up of flange joints but includes loading transporting and unloading at site all valves etc.		EA	11		
2.07	20" dia Installation of Valve 8" dia Placing / removing in position in pipelines / pipings, all ratings / class flanged end or screwed end valves of all types (cast steel / forged steel body gate valve, ball valve, globe valve, check valve with flapper seat of stainless steel type), gauges, strainers, foot valve, fire water monitors, fire water hydrants, water spray nozzles, expansion joints, or other similar devices having flanged ends or screwed ends as		EA	2		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
2.08	per sizes given below. The job does not include bolting up of flange joints but includes loading transporting and unloading at site all valves etc. 08" dia Installation of Valve 6" dia Placing / removing in position in pipelines / pipings, all ratings / class flanged end or screwed end valves of all types (cast steel / forged steel body gate valve, ball valve, globe valve, check valve with flapper seat of stainless steel type), gauges, strainers, foot valve, fire water monitors, fire water hydrants, water spray nozzles, expansion joints, or other similar devices having flanged ends or screwed ends as per sizes given below. The job does not include bolting up of flange joints but includes loading transporting and unloading at site all valves etc. 06" dia		EA	2		
2.09	Installation of Valve 4" dia Placing / removing in position in pipelines / pipings, all ratings / class flanged end or screwed end valves of all types (cast steel / forged steel body gate valve, ball valve, globe valve, check valve with flapper seat of stainless steel type), gauges, strainers, foot valve, fire water monitors, fire water hydrants, water spray nozzles, expansion joints, or other similar devices having flanged ends or screwed ends as per sizes given below. The job does not include bolting up of flange joints but includes loading transporting and unloading at site all valves etc. 06" dia		EA	15		
2.10	Installation of Valve 2" dia Placing / removing in position in pipelines / pipings, all ratings / class flanged end or screwed end valves of all types (cast steel /		EA	4		



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Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
2.11	forged steel body gate valve, ball valve, globe valve, check valve with flapper seat of stainless steel type), gauges, strainers, foot valve, fire water monitors, fire water hydrants, water spray nozzles, expansion joints, or other similar devices having flanged ends or screwed ends as per sizes given below. The job does not include bolting up of flange joints but includes loading transporting and unloading at site all valves etc. 02" dia Installation of Valve 1" dia Placing / removing in position in pipelines / pipings, all ratings / class flanged end or screwed end valves of all types (cast steel / forged steel body gate valve, ball valve, globe valve, check valve with flapper seat of stainless steel type), gauges, strainers, foot valve, fire water monitors, fire water hydrants, water spray nozzles, expansion joints, or other similar devices having flanged ends or screwed ends as per sizes given below. The job does not include bolting up of flange joints but includes loading transporting and unloading at site all valves etc. 01" dia		EA	15		
2.12	Installation of Valve 3/4" dia Placing / removing in position in pipelines / pipings, all ratings / class flanged end or screwed end valves of all types (cast steel / forged steel body gate valve, ball valve, globe valve, check valve with flapper seat of stainless steel type), gauges, strainers, foot valve, fire water monitors, fire water hydrants, water spray nozzles, expansion joints, or other similar devices having flanged ends or screwed ends as per sizes given below. The job does not include bolting up of flange joints but includes loading transporting and unloading at site all valves etc. 3/4" dia		EA	15		



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Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
2.13	<u>Installation of Valve ½" dia</u> Placing / removing in position in pipelines / pipings, all ratings / class flanged end or screwed end valves of all types (cast steel / forged steel body gate valve, ball valve, globe valve, check valve with flapper seat of stainless steel type), gauges, strainers, foot valve, fire water monitors, fire water hydrants, water spray nozzles, expansion joints, or other similar devices having flanged ends or screwed ends as per sizes given below. The job does not include bolting up of flange joints but includes loading transporting and unloading at site all valves etc. 1/2" dia		EA	99		
2.14	<u>Dip hatch cover 6" dia</u> Supply and installation of Dip hatch covers of 6" dia in aluminum casting.		EA	2		
2.15	<u>Flame Cutting /Cold Cutting of Pipe</u> Cold Cutting by means of standard tool for cutting of pipeline carrying hazardous product of existing above ground/underground pipeline and pipe fittings etc. within the PSO terminal premises. Contractor will ensure compliance to HSE requirement as per PSO requirements.,, #,, 20" dia,,		EA	4		
2.16	<u>Dismantling</u> Dismantling of existing asphalt,, Dismantling and removing of existing asphalt carpet of tank and disposing it outside terminal as per instruction of PSO site engineer.,,		M3	5.000		
2.17	<u>Bitumen Sand Layer</u> Bitumen Sand Layer,, Providing and applying asphalt sand mix layer 75 mm thick, on the firm and compacted surface including tack coat @ 0.75 liters / sq.m. Asphalt		M3	5.000		



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Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
2.18	compacting with ASTM D 946 or AASHTO M20 penetration grade 60 / 70 with mixing proportion of 6% asphalt, 18% crushed stone (2.5 mm - 5 mm), 66% well graded sand and fine aggregates (0.07 mm - 0.42 mm). The asphalt surface shall be compacted to the required slope. Complete in all respects as per drawing, specification and as directed by the Company's Representative / Engineer.,, Excavation Excavation,, Excavation in all kinds of strata / soil (dry or wet, hard or soft, etc) including clearing and grubbing of site complete in all respects, including all operation, complete with breaking clods, levelling, dressing, dewatering, shoring & compacting. Also include backfilling of excavated stuff inclusive of breaking clods, dressing, watering and consolidating by ramming (by power roller, mechanical rammer, plate vibrator, roller of suitable size or other approved equipment as per instructions of PSO Site Engineer) in layers not exceeding 6" depth. 95% modified AASHTO density to be achieved where applicable. Lifting, shifting or disposing of surplus strata outside the premises or as per instructions & approval of PSO Engineer area also included in this item. Contractor will carryout compaction test as per specification & instructions (where required by PSO) without any extra cost.,, Note: Excavation dimensions as per approved drawing / PSO instruction shall be considered for measurement / payment. Cost includes Compaction Test and other related tests to be carried out (where required) through approved laboratory to be arranged and paid by the contractor. No extra charges/payments will be paid to contractor.,,		M3	755.000		
2.19	Stone Soling Stone Soling Providing and laying stone soling of approved quality under foundations, plinth, floors, hard standing etc including hand packing vertically and filling voids with spawels (stone dust), consolidating and compacting with mechanical means, as per instructions of PSO Engineer.		M3	5.000		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
2.20	<u>Laying of CC 1:2:4 S.R Cement</u> Concrete CC 1:2:4,, Providing and laying CC 1:2:4 (using S.R cement) of specified strength using approved quality 3/4" max. size graded crushed stone and and fine aggregate of required properties including water tight approved form work, mixing, transporting, placing, levelling, compaction, rodding, vibrating, finishing and curing etc. scaffolding, racking out and cleaning, excluding cost of reinforcement, complete in all respects and as per instructions of PSO Engineer. Cube test for finding the crushing strength of concrete will be carried out to confirm the desired strength at contractors own cost i.e. (3000 psi at 28 days, 2100 psi at 7 days). The cube tests will be carried out by contractor from PSO approved laboratory or as per instruction of PSO site Engineer. Cost also includes preparation of construction joints as per site conditions, specifications and directions of Engineer Incharge.,, Note: NEW-PAGE 1) No extra charges/payment will be made for cube testing. NEW-PAGE 2) C.C 1:2:4 dimensions as per approved drawing/ PSO instruction shall be considered for measurement / payment.,,		M3	25.000		
2.21	<u>Laying of CC 1:4:8 S.R. Cement</u> Concrete CC 1:4:8,, Providing and laying C.C. 1:4:8 with S.R.Cement specified strength at any level using approved quality 3/4" max. size graded crushed stone and fine aggregate of required properties of approved source including water tight approved form work (installation & removal), mixing, transporting, placing, compacting, vibrating, finishing and curing etc., scaffolding, racking out and cleaning complete in all respects and as per instructions of PSO Engineer. Note: C.C 1:4:8 dimensions as per approved drawing/ PSO instruction shall be considered for measurement / payment.,,		M3	15.000		
2.22	<u>Laying of CC 1:1-1/2:3 S.R Cement</u>		M3	140.000		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
2.23	Concrete CC 1:1.5:3,, Providing and laying C.C 1:1.5:3 with S.R.Cement specified strength at any level using approved quality 3/4" max. size graded crushed stone and fine aggregate of required properties of approved source including water tight approved form work (installation & removal), mixing, transporting, placing, compacting, vibrating, finishing and curing etc., scaffolding, racking out and cleaning complete in all respects and as per instructions of PSO Engineer. Note: C.C 1:1.5:3 dimensions as per approved drawing/ PSO instruction shall be considered for measurement / payment.,, <u>Providing and applying Cement Plaster</u> Plaster,, Providing and applying cement plaster 3/4" thick in 1:4 cement sand mortar (using SR cement) to walls, base including all corners, recesses, jams and racking out joints, roughing the surfaces and cement slurry backing to all surfaces, curing and scaffolding. This job also includes using of pudlo 5 lbs per bag of cement. All work will be carried out as per instructions of PSO Engineer.,,		M2	240		
2.24	<u>PB4 CONCRETE WAT.PROOF.</u> PB4 Hot Bitumen,, Providing & applying PB4 Hot/Cold Bitumen of approved make with water proof chemical on foundations (inside/ outside) upto plinth level to sides and top of footings, situ walls, columns, sides of plinth beams and floor etc. as per manufacturer recommendations including cost of all material, labour, equipments complete as per specification and as directed by the PSO Engineer Incharge.,,		M2	440		
2.25	<u>Sand fill for tank</u> Sand Fill,, Providing and laying sand fill of approved quality as per drawing, including compacting (by power roller, mechanical rammer, plate vibrator, roller of suitable size or other approved equipment as per instructions of PSO Site Engineer) and watering in layers not exceeding		M3	20.000		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
2.26	8" depth to obtain 95% modified AASHTO density. Contractor will carryout compaction test (where required by PSO) as per specification & instructions with out any extra cost.,, Note: Dimensions as per approved drawings/ PSO instruction shall be considered for measurement / payment. Cost includes compaction tests (at least 1 no. for each layer) where required, and other related tests shall be carried out and paid by the contractor.,, Earthing of tank Earthing of Tank,, Supply and installation of earthing as per attached drawing 018-71-ELT-003 (2 sheets). All materials and services required for execution of job is included in the item.,,		EA	4		
2.27	Dismantling of Existing Civil Structure Dismantling of existing civil structure including foundation, supports, pedestals, pavements, tank wall, roof, tank bottom or any other structure to a varying depth as required. This Job also includes removal of deformed steel from the civil structure, shifting of debris outside the terminal to a suitable place, general cleaning of the site and shifting of useful material on proposed location complete in all respect as advised by Site Incharge / Engineer.		M3	10.000		
2.28	BRICK / BLOCK MASONARY Providing & laying first class brick / machine made block masonry (in super structure using graded screened 'Bajri') in SR cement of specified thickness set in 1:4 cement sand mortar. The job includes required scaffolding, staging, racking out, curing D.P.C. etc. & cleaning and provision of expansion joints & 15 days water curing of masonry. The complete Job to be done as per directives of PSO Engineer. Supply & application of expansion joint is included in this item.		M3	20.000		
2.29	Providing and laying TOR steel reinforce		KG	45,000.00 0		



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Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
2.30	Installation of deformed steel reinforcement bars including straightening, removing twists, cutting, bending, binding, wastage and overlaps, placing in position on precast cc chairs, tying with binding wire 18 SWG, complete as per instructions of the PSO Engineer. Only actual laid quantities will be considered for payment. Deformed steel reinforcement of yield strength 60000psi. Preparatory Works Preparatory Works,, Preparatory Works: Contractor to dismantle existing Sump and Drain all along the perimeter of tanks and the material is to be removed/transported with care and stacked at the specified place as per the instructions of Engineer In charge. The job also includes the removal of plaster/concrete from top of the existing tank ring wall with the help of suitable tool preferably with jack hammers and cleaning the existing reinforcement with suitable material/equipment from any dirt or corrosion. The existing ring wall concrete to be chiseled up till 4 inch (100 mm) deep or up till required depth so that the existing reinforcement is exposed. All the work to be done as per the drawings, specifications and instructions of Engineer In charge. The job also includes the sand blasting of the existing reinforcement. Note: Payment will be done by measuring the perimeter of the tank multiplied by the height of the ring wall which includes the drain channel, sump and surface of ring wall.,,		M2	670		
2.31	Chemical Anchorage Chemical Anchorage. 25 mm dia., Chemical Anchorage including 25 mm dia Rebars: After removal of the Plaster, demarcation of the anchoring bols is to be done and drilling to be carried out in existing concrete uptill required depth, the area of the ring wall and drilled holes is to be properly cleaned from any dirt or silt. Contractor to drill the holes with suitable Hammer drill uptill required depth for fixing of 25 mm dia rebar as dowel/anchorage. The		EA	2,970		



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2	size of the drilled hole to be carefully done so that there might not be any problem in fixing the 25 mm dia rebar in addition to anchoring grout. The job also includes the supply and provision of suitable/approved anchoring grout for uses in Concrete to withstand the shear load in structural applications and offer high load bearing capacity. The entire job is to be completed as per the specifications, consultants suggestions and instructions of Engineer incharge. ,, <u>PIPE CS 20" DIA STD. WT. (ERW)</u> <u>Zot (Inst.)</u> <u>M</u> 24 "CS Pipe, Beveled end, API 5L Gr. B PSL-1 (ERW/SAW/SMLS) as per ANSI B 36.10. Single Random length. Standard Compliance: 1) API 5 L Latest edition 2) All materials properties and parameters shall conform to minimum requirement of API 5L, PSL 1 Pipeline 3) All test shall be performed and results shall conform to minimum requirement of API 5 L PSL 1. 4) Documentation support i.e. MTC, ISO certificate, API certificate etc to be furnished / provided by contractor for PSO review / approval before shipment of material to requisite site. Certification: 1) Manufacturer must have a valid API 5L certificate with active status on the API composite List. 2) Manufacturer must be an API certificate holder for the last 5 years minimum. " 20" dia Sch 40					
3	<u>CHECK VALVE 20"dia</u> <u>Zot (Inst.)</u> <u>EA</u> 3 Check Valves Specifications as mentioned in PSO-CV-010: 20" Dia					
4	<u>ELBOW CS 24"dia 90deg (B.W)</u> <u>Zot (Inst.)</u> <u>EA</u> 1 Supply of Elbow 90 degree, Long Radius, B.W. ASTM A-234 Gr. WPB as per ASME B16.9.					



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
5	24" Dia Std Wt ELBOW CS 20"dia 90deg (B.W) Supply of Elbow 90 degree, Long Radius, B.W. ASTM A-234 Gr. WPB as per ASME B16.9.	Zot (Inst.)	EA	1		
6	20" Dia Std Wt ELBOW CS 8"dia 90deg (B.W) Supply of Elbow 90 degree, Long Radius, B.W. ASTM A-234 Gr. WPB as per ASME B16.9.	Zot (Inst.)	EA	3		
7	08" Dia Std Wt ELBOW CS 6"dia 90deg (B.W) Supply of Elbow 90 degree, Long Radius, B.W. ASTM A-234 Gr. WPB as per ASME B16.9.	Zot (Inst.)	EA	4		
8	06" Dia Std Wt ELBOW CS 4"dia 90deg (B.W) Supply of Elbow 90 degree, Long Radius, B.W. ASTM A-234 Gr. WPB as per ASME B16.9.	Zot (Inst.)	EA	3		
9	04" Dia Std Wt ELBOW CS 3"dia 90deg (B.W) Supply of Elbow 90 degree, Long Radius, B.W. ASTM A-234 Gr. WPB as per ASME B16.9.	Zot (Inst.)	EA	2		
10	03" Dia Std Wt ELBOW CS 1"dia 90deg (Threaded) Supply of Elbow 90 degree, Long radius, Threaded, ASTM A-105, 3000# as per	Zot (Inst.)	EA	24		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
11	ANSI B16.11 01" Dia <u>ELBOW CS 3/4"dia 90deg (Threaded)</u> Supply of Elbow 90 degree, Long radius, Threaded, ASTM A-105, 3000# as per ANSI B16.11 3/4"Dia	<u>Zot (Inst.)</u>	EA	5		
12	<u>ELBOW CS 1/2"dia 90deg (Threaded)</u> Supply of Elbow 90 degree, Long radius, Threaded, ASTM A-105, 3000# as per ANSI B16.11 1/2"Dia	<u>Zot (Inst.)</u>	EA	5		
13	<u>FLANGE SORE MS 24"dia Class-150</u> Supply of Slip-on Flanges 150#, R.F. as per ASME B16.5, ASTM A-105. 24" Dia	<u>Zot (Inst.)</u>	EA	5		
14	<u>FLANGE SORE MS 20"dia Class-150</u> Supply of Slip-on Flanges 150#, R.F. as per ASME B16.5, ASTM A-105. 20" Dia	<u>Zot (Inst.)</u>	EA	9		
15	<u>FLANGE SORE MS 8"dia Class-150</u> Supply of Slip-on Flanges 150#, R.F. as per ASME B16.5, ASTM A-105. 08" Dia	<u>Zot (Inst.)</u>	EA	12		
16	<u>FLANGE Sore MS 6" dia Class-150.</u> Supply of Slip-on Flanges 150#, R.F. as per ASME B16.5, ASTM A-105. 06" Dia	<u>Zot (Inst.)</u>	EA	8		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
17	<u>FLANGE SORE MS 4"dia Class-150</u> Supply of Slip-on Flanges 150#, R.F. as per ASME B16.5, ASTM A-105. 04" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	13		
18	<u>FLANGE SORE MS 3"dia Class-150</u> Supply of Slip-on Flanges 150#, R.F. as per ASME B16.5, ASTM A-105. 03" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	4		
19	<u>FLANGE SORE MS 2"dia Class-150</u> Supply of Slip-on Flanges 150#, R.F. as per ASME B16.5, ASTM A-105. 02" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	5		
20	<u>FLANGE SORE MS 1"dia Class-150</u> Supply of Slip-on Flanges 150#, R.F. as per ASME B16.5, ASTM A-105. 01" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	30		
21	<u>FLANGE SORE MS 3/4"dia Class-150</u> Supply of Slip-on Flanges 150#, R.F. as per ASME B16.5, ASTM A-105. 3/4"Dia	<u>Zot (Inst.)</u>	<u>EA</u>	10		
22	<u>FLANGE SORE MS 1/2"dia Class-150</u> Supply of Slip-on Flanges 150#, R.F. as per ASME B16.5, ASTM A-105. 1/2"Dia	<u>Zot (Inst.)</u>	<u>EA</u>	4		
23	<u>FLANGE Blind MS 6" dia Class-150</u> Supply of Blind Flanges 150 # RF, as per ANSI B 16.5, ASTM A-105. 06" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	4		



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24	<u>FLANGE Blind MS 4" dia Class-150</u> Supply of Blind Flanges 150 # RF, as per ANSI B 16.5, ASTM A-105. 04" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	2		
25	<u>FLANGE Blind MS 2" dia Clas-150</u> Supply of Blind Flanges 150 # RF, as per ANSI B 16.5, ASTM A-105. 02" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	6		
26	<u>FLANGE Blind MS 1" dia Class-150</u> Supply of Blind Flanges 150 # RF, as per ANSI B 16.5, ASTM A-105. 01" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	8		
27	<u>Socket MS 1" dia</u> "Supply of Sockolet/Weldolet/Threadolet (as required), ASTM A 105, 3000#, as per ANSI B 16.11 The sizes below indicate outlet size (branch). Main line size may vary." Dia 1"	<u>Zot (Inst.)</u>	<u>EA</u>	5		
28	<u>Socket MS 3/4" dia</u> "Supply of Sockolet/Weldolet/Threadolet (as required), ASTM A 105, 3000#, as per ANSI B 16.11 The sizes below indicate outlet size (branch). Main line size may vary." Dia 3/4"	<u>Zot (Inst.)</u>	<u>EA</u>	5		
29	<u>SOCKET 1/2" dia</u> "Supply of Sockolet/Weldolet/Threadolet (as required), ASTM A 105, 3000#, as per ANSI B 16.11 The sizes below indicate outlet size (branch). Main line size may vary."	<u>Zot (Inst.)</u>	<u>EA</u>	99		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
30	Dia 1/2" <u>PRESSURE RELIEF VALVE (SAFETY VALVE).</u> "Pressure Relief Valve Specifications as mentioned in PSO-PSV-011." 1" x 3/4" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	8		
31	<u>TEE EQUAL CS 1"dia (B.W)</u> Supply of Equal Tee, Threaded, ASTM A-105 , 3000# as per ANSI B16.11. 01" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	5		
32	<u>TEE EQUAL CS 3/4"dia (B.W)</u> Supply of Equal Tee, Threaded, ASTM A-105 , 3000# as per ANSI B16.11. 3/4" dia	<u>Zot (Inst.)</u>	<u>EA</u>	5		
33	<u>TEE EQUAL CS 1/2"dia (B.W)</u> Supply of Equal Tee, Threaded, ASTM A-105 , 3000# as per ANSI B16.11. 1/2" dia	<u>Zot (Inst.)</u>	<u>EA</u>	5		
34	<u>Miscellaneous Steel structure</u> "Supply of steel material Roof plates, Roof supporting structure (column, rafters, girders), Bottom plates, shell plates, Apurtenaces, railing, staircase, splash plates, as per inspection report, site requirement and inaccordance with relevant codes / standards/ best Engineering practises. Specifications: HR-235/A-36/SS400B,API 5L Gr. B/ ASTM A-53 GR.B ERW, ASTM A-234 Gr. WPB, ASME B16.5, ASTM A-105 or equivalent / superior as per PSO's approval, Suitable size as per site requirement.	<u>Zot (Inst.)</u>	<u>KG</u>	29,100.00 0		



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	"Note: Quantities for supply would be mutually decided by PSO and Contractor before proceeding with the procurement"					
35	<u>Miscellaneous Steel structure</u> <u>Zot (Inst.)</u> <u>KG</u> 1,900.000 "Supply of manholes, tank nozzles/appurtenances, flanges, stud bolts, nut bolts, washers, pipe & pipe fittings (all internal pipes, water draw off, dip, water drain channel on tank shell with drains etc.) as per inspection report, site requirement and inaccordance with relevant codes / standards/ best Engineering practises. Specifications: HR-235/A-36/SS400B,API 5L Gr. B/ ASTM A-53 GR.B ERW, ASTM A-234 Gr. WPB, ASME B16.5, ASTM A-105 or equivalent / superior as per PSO's approval, Suitable size as per site requirement. " Note: Quantities for supply would be mutually decided by PSO and Contractor before proceeding with the procurement"					
36	<u>TEE EQUAL CS 6"dia (B.W)</u> <u>Zot (Inst.)</u> <u>EA</u> 4 Equal Tee Equal Tee B.W ASTM A - 234 Gr WPB as per ANSI 16.9 06" dia Sch 40					
37	<u>TEE EQUAL CS 4"dia (B.W)</u> <u>Zot (Inst.)</u> <u>EA</u> 1 Equal Tee Equal Tee B.W ASTM A - 234 Gr WPB as per ANSI 16.9 04" dia Sch 40					
38	<u>TEE Reducing CS 4" X 2"</u> <u>Zot (Inst.)</u> <u>EA</u> 2 Reducing Tee Reducing Tee B.W ASTM A - 234 Gr WPB as per ANSI 16.9 04"x02" dia Sch 40					



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39	<u>REDUCER CS 8" X 6" (Concentric) Sch-40</u> Reducer Supply of Reducer BW, ASTM A-234 Gr. WPB as per ANSI B 16.9 8"x 6" Sch 40	<u>Zot (Inst.)</u>	<u>EA</u>	2		
40	<u>REDUCER CS 6" X 4" (Concentric)</u> Reducer Supply of Reducer BW, ASTM A-234 Gr. WPB as per ANSI B 16.9 6"x 4" Sch 40	<u>Zot (Inst.)</u>	<u>EA</u>	1		
41	<u>CAP 1"</u> Cap Threaded Cap, ASTM A-105, 3000 # as per ANSI B 16.11 1" Dia Sch 80	<u>Zot (Inst.)</u>	<u>EA</u>	10		
42	<u>Pipe Nipple PBE 1"</u> Pipe Nipple Supply of CS Pipe Threaded nipple, API 5L Gr. B/ ASTM A-53 GR.B ERW as per ANSI B 36.10. 1" Sch-80 x 150 mm long	<u>Zot (Inst.)</u>	<u>EA</u>	5		
43	<u>Sprinklers Brass 3/4" dia</u> Water Sprinkler Nozzles	<u>Zot (Inst.)</u>	<u>EA</u>	99		
44	<u>Deformed Steel Bars</u> "Deformed Steel	<u>Zot (Inst.)</u>	<u>KG</u>	45,000.00 0		



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45	Supply of deformed steel reinforcement bars. All wastage, cuttings, overlaps and chairs are included in the cost and no extra payment will be made in this regard. Only actual laid quantities will be considered for payment. Note: Mill test Certificate from the manufacturer will be provided by the contractor. Deformed steel of yield strength 60,000Psi. Destructive testing for steel to be carried out from reputed laboratory at cost of contractor Note : Only actual installed quantity will be paid. Wastage quantity will not be paid." PIPE CS 8" DIA SCH-40 (ERW) Zot (Inst.) M "CS Pipe, Beveled end, API 5L Gr. B PSL-1 (ERW/SAW/SMLS) as per ANSI B 36.10. Single Random length. Standard Compliance: 1) API 5 L Latest edition 2) All materials properties and parameters shall conform to minimum requirement of API 5L, PSL 1 Pipeline 3) All test shall be performed and results shall conform to minimum requirement of API 5 L PSL 1. 4) Documentation support i.e. MTC, ISO certificate, API certificate etc to be furnished / provided by contractor for PSO review / approval before shipment of material to requisite site. Certification: 1) Manufacturer must have a valid API 5L certificate with active status on the API composite List. 2) Manufacturer must be an API certificate holder for the last 5 years minimum. " 08" dia Sch 40			48		
46	PIPE CS 6" DIA SCH-40 (ERW) Zot (Inst.) M "CS Pipe, Beveled end, API 5L Gr. B PSL-1 (ERW/SAW/SMLS) as per ANSI B 36.10. Single Random length. Standard Compliance: 1) API 5 L Latest edition 2) All materials properties and parameters shall conform to minimum requirement of API 5L, PSL 1 Pipeline 3) All test shall be performed and results shall conform to minimum requirement of API 5 L PSL 1.			204		



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47	4) Documentation support i.e. MTC, ISO certificate, API certificate etc to be furnished / provided by contractor for PSO review / approval before shipment of material to requisite site. Certification: 1) Manufacturer must have a valid API 5L certificate with active status on the API composite List. 2) Manufacturer must be an API certificate holder for the last 5 years minimum. " 06" dia Sch 40 PIPE CS 4" DIA SCH-40 (ERW) Zot (Inst.) M "CS Pipe, Beveled end, API 5L Gr. B PSL-1 (ERW/SAW/SMLS) as per ANSI B 36.10. Single Random length. Standard Compliance: 1) API 5 L Latest edition 2) All materials properties and parameters shall conform to minimum requirement of API 5L, PSL 1 Pipeline 3) All test shall be performed and results shall conform to minimum requirement of API 5 L PSL 1. 4) Documentation support i.e. MTC, ISO certificate, API certificate etc to be furnished / provided by contractor for PSO review / approval before shipment of material to requisite site. Certification: 1) Manufacturer must have a valid API 5L certificate with active status on the API composite List. 2) Manufacturer must be an API certificate holder for the last 5 years minimum. " 04" dia Sch 40			24		
48	PIPE CS 3" DIA SCH-40 (ERW) Zot (Inst.) M "CS Pipe, Beveled end, API 5L Gr. B PSL-1 (ERW/SAW/SMLS) as per ANSI B 36.10. Single Random length. Standard Compliance: 1) API 5 L Latest edition 2) All materials properties and parameters shall conform to minimum requirement of API 5L, PSL 1 Pipeline 3) All test shall be performed and results shall conform to minimum requirement			6		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
49	of API 5 L PSL 1. 4) Documentation support i.e. MTC, ISO certificate, API certificate etc to be furnished / provided by contractor for PSO review / approval before shipment of material to requisite site. Certification: 1) Manufacturer must have a valid API 5L certificate with active status on the API composite List. 2) Manufacturer must be an API certificate holder for the last 5 years minimum. " 03" dia Sch 40 PIPE CS 2"dia (ERW) Zot (Inst.) M "CS Pipe, Beveled end, API 5L Gr. B PSL-1 (ERW/SAW/SMLS) as per ANSI B 36.10. Single Random length. Standard Compliance: 1) API 5 L Latest edition 2) All materials properties and parameters shall conform to minimum requirement of API 5L, PSL 1 Pipeline 3) All test shall be performed and results shall conform to minimum requirement of API 5 L PSL 1. 4) Documentation support i.e. MTC, ISO certificate, API certificate etc to be furnished / provided by contractor for PSO review / approval before shipment of material to requisite site. Certification: 1) Manufacturer must have a valid API 5L certificate with active status on the API composite List. 2) Manufacturer must be an API certificate holder for the last 5 years minimum. " 02" dia Sch 40			6		
50	PIPE CS 1" DIA SCH-80 (Erw) Zot (Inst.) M Supply of CS Pipe, Beveled / Plain / Threaded end, API 5L Gr. B/ ASTM A-53 GR.B ERW as per ANSI B 36.10. 01" dia Sch 80			30		



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Company PSO Dummy Vendor
PAKISTAN

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ON
(Date)

06.08.2026

BY
(Time)

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Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
51	<u>PIPE CS 3/4" DIA SCH-80 (ERW)</u> Supply of CS Pipe, Beveled / Plain / Threaded end, API 5L Gr. B/ ASTM A-53 GR.B ERW as per ANSI B 36.10. 3/4" dia Sch 80	<u>Zot (Inst.)</u>	M	12		
52	<u>PIPE CS 1/2" dia Sch-80 (Seamless)</u> Supply of CS Pipe, Beveled / Plain / Threaded end, API 5L Gr. B/ ASTM A-53 GR.B ERW as per ANSI B 36.10. 1/2" dia Sch 80	<u>Zot (Inst.)</u>	M	6		
53	<u>CHECK VALVE 24" dia</u> Check Valves Specifications as mentioned in PSO-CV-010: 24" Dia	<u>Zot (Inst.)</u>	EA	1		
54	<u>GATE VALVE 24" dia</u> Gate Valves Specifications as mentioned in PSO-GV-007: 24" Dia	<u>Zot (Inst.)</u>	EA	2		
55	<u>GATE VALVE 20" dia</u> Gate Valves Specifications as mentioned in PSO-GV-007: 20" Dia	<u>Zot (Inst.)</u>	EA	4		
56	<u>GATE VALVE 4" dia</u> Gate Valves Specifications as mentioned in PSO-GV-007:	<u>Zot (Inst.)</u>	EA	4		



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Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
57	04" Dia GATE VALVE 3"dia Gate Valves Specifications as mentioned in PSO-GV-007:	Zot (Inst.)	EA	1		
58	03" Dia GATE VALVE 2"dia Gate Valves Specifications as mentioned in PSO-GV-007:	Zot (Inst.)	EA	5		
59	02" Dia GATE VALVE 1"dia Supply of Forged Steel Gate Valve 150#, Flanged ends, as per API-602, Bolted Bonnet, OS&Y, Metallic seats, Body: ASTM A-105 , Stem: 13Cr. S.S. Hard Faced, Wedge / disc: A 216 WCB+F60	Zot (Inst.)	EA	10		
60	1" Dia GATE VALVE 3/4"dia Supply of Forged Steel Gate Valve 150#, Flanged ends, as per API-602, Bolted Bonnet, OS&Y, Metallic seats, Body: ASTM A-105 , Stem: 13Cr. S.S. Hard Faced, Wedge / disc: A 216 WCB+F60	Zot (Inst.)	EA	2		
61	3/4" dia GATE VALVE 1/2"dia Supply of Forged Steel Gate Valve 150#, Flanged ends, as per API-602, Bolted Bonnet, OS&Y, Metallic seats, Body: ASTM A-105 , Stem: 13Cr. S.S. Hard Faced, Wedge / disc: A 216 WCB+F60	Zot (Inst.)	EA	10		
	1/2" dia					



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Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
62	<u>ELBOW CS 24"dia 45deg (B.W)</u> Supply of Elbow 45 degree, Long Radius, B.W. ASTM A-234 Gr. WPB as per ASME B16.9. 24" Dia Sch 40	<u>Zot (Inst.)</u>	<u>EA</u>	1		
63	<u>ELBOW CS 20"dia 45deg (B.W)</u> Supply of Elbow 45 degree, Long Radius, B.W. ASTM A-234 Gr. WPB as per ASME B16.9. 20" Dia Sch 40	<u>Zot (Inst.)</u>	<u>EA</u>	1		
64	<u>ELBOW CS 8"dia 45deg (B.W)</u> Supply of Elbow 45 degree, Long Radius, B.W. ASTM A-234 Gr. WPB as per ASME B16.9. 08" Dia Sch 40	<u>Zot (Inst.)</u>	<u>EA</u>	6		
65	<u>ELBOW CS 6"dia 45deg (B.W)</u> Supply of Elbow 45 degree, Long Radius, B.W. ASTM A-234 Gr. WPB as per ASME B16.9. 06"Dia Sch 40	<u>Zot (Inst.)</u>	<u>EA</u>	8		
66	<u>ELBOW MS 4" DIA 45 DEG SCH-40</u> Supply of Elbow 45 degree, Long Radius, B.W. ASTM A-234 Gr. WPB as per ASME B16.9. 04" Dia Sch 40	<u>Zot (Inst.)</u>	<u>EA</u>	2		
67	<u>Services (T-1002)</u>	<u>Zot (Inst.)</u>				
67.01	<u>Integrity Testing of Tank</u> -----		<u>JOB</u>	1		



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Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	Rehabilitation Vertical Steel Storage Tank T-1002 at PSO ZOT (Dia = 57 m, Height = 12.8 m) ----- #Salient Scope of Work (T-1002),, #,,, #,, #,, 1,, Integrity testing and inspection of tank shell and bottom.,, 2,, Mechanical Works as per NDT inspection and subsequent approval by PSO.,, 3,, Installation of Supports for Sprinkler / deluge pipelines.,, 4,, Installation of Deluge pipeline system.,, # ,, #,, #,, #,, 5,, Removal and disposal of cladding and insulation from tank shell and pipelines. ,, #,, #,, #,, #,, 6,, Testing of the tank, which includes Hydrostatic testing, Vacuum Box Testing, RT, MPI, DPT, Radiography etc complete in all respects.,, 7,, Surface preparation and painting of Tank & Pipeline.,, 8,, Installation of Double block and bleed valve arrangement on receipt / delivery pipeline.,, #,, #,, #,, #,, 9,, Box-up for commissioning for tank.,, -----					



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Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	Testing of the tank (Tank Bottom Inspection) The job is to be carried out from PSO approved inspection organization having API 653 licensed inspector. Complete Tank testing Job to be carried out under the supervision of API-653 Certified Inspector. Contractor to provide certificate of inspector and obtain approval before finalising the inspection firm. Scope of work is as follows: A) MFL TESTING OF TANK BOTTOM: Providing services of qualified inspection firm (PSO's approved) for magnetic flux leakage inspection (bottom floor scanning) which includes scanning of the tank floor for comprehensive inspection of bottom plates and for under side corrosion. Details are: i) MFL inspection of all accessible areas of tank floor (bottom plates). ii) Ultrasonic follow up testing (a-scan verification). iii) Recording of floor MFL and ultrasonic indication on a floor map. iv) Locating of backside corrosion area on floor map. v) Submission of Report of findings with recommendations limited to the tank bottom. Recommendations also includes design with drawing of portion of bottom that is required to be replaced (like Annular Plates etc.). B) UT GAUGING OF TANK BOTTOM: Ultrasonic thickness gauging of tank bottom and bottom projection plate through measuring plate thickness with ultrasonic digital thickness meter. Atleast 5 Points for each Plate.,, NOTE: After completion of the Job. Contractor will submit detailed inspection report of findings with 'Clear-Cut' recommendations regarding suggestions for necessary rectification / repairing work required as per API-653 & API-650. Note: 1) Boarding, Lodging, Transportation, Lunch etc. for inspection firm rep(s) is in Contractor's scope of work.,					
67.02	Integrity Testing of Tank Testing of the tank (Tank Shell Inspection)		JOB	1		



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Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	3,,Installation of Supports for Sprinkler / deluge pipelines.,, 4,,Installation of Deluge pipeline system.,,# ,,#,,#,,#,, 5,,Removal and disposal of cladding and insulation from tank shell and pipelines. ,,#,,#,,#,,#,, 6,,Testing of the tank, which includes Hydrostatic testing, Vacuum Box Testing, RT, MPI, DPT, Radiography etc complete in all respects.,, 7,,Surface preparation and painting of Tank & Pipeline.,, 8,,Installation of Double block and bleed valve arrangement on receipt / delivery pipeline.,,#,, #,,#,,#,, 9,,Box-up for commissioning for tank.,, ----- General Cleaning of tank Job includes removal and shifting of the contaminated mud, clay and other unusable material out of the tank and its disposal as per instruction of PSO Engineer. Sludge removal from tank is not included in this item. NOTE: Contractor will ensure that working area / tank bottom is free of oil(<> ,<)> oil soaked garbage / cotton waste (if required soaking may be done through laying of sand, saw dust etc to be provided by contractor(<>,<)> without any additional cost) to avoid potential fire hazards. Furthermore contractor will arrange (if necessary) high volume exhaust fans to make the tank ready for hot work.					
67.04	Cutting, removal of steel structure		KG			



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
67.05	Cutting of Existing Structure Cutting, removal and dismantling of the existing Structure, Steel Plates, Staircase, Supports, walkways, Platforms, Railings, pipe bridge, shed etc. as per instructions of PSO Project Engineer. The job also includes stacking of the same structure within the Terminal premises of PSO as per instruction of PSO Project Engineer. Note: All types of consumables (gas etc.) & scaffoldings required for the cutting, removal & dismantling job shall be provided by Contractor, without any additional cost.			112,000.00		
	FABRICATION WORKS Fabrication Works on Tank Fabrication, erection, installation & welding of tank shell, shell strips, shell insertion plates, tank doublers, bottom & annular plates, roof & all structure steel works for supporting tank roof, nut bolts in roof structure, top railing, curb angles, tank appurtenances such as nozzles & manholes with flanges & covers including stud bolts and nut bolts, spiral stair ways, splash plates, z-hooks, water draw off piping with supports & fittings, tank internal product lines / pipes with supports & fittings, center sump, datum plates, painter & fabricator hooks, nozzles, water drain channel on tank shell with drains, crossover platforms, pipe sleepers, field supports, foam / water sprinkler supports etc. complete in all respect in accordance with specs., drawings and instructions of PSO site engineer. Job also includes shifting (including loading and unloading) materials required to carryout the above work from site store to work site as per instruction of PSO site engineer. All handling, supporting, lifting, laying, placing		KG	83,000.00		



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Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	in position, aligning, cutting, machining, bending, rolling, forging, drilling, grinding, fabrication and welding in position of steel plates, structural and or other similar material as required for the construction of the above defined items of works is included in this item. NOTE: Cost of welding qualification procedure tests, destructive tests from shipyard (or other PSO approved company) & welder tests are included in scope. The contractor shall submit his welding procedure and reports to the owner's representative for approval. All types of consumables (welding electrodes, gas etc.) required for the fabrication, erection, installation & welding job shall be provided by Contractor, without any additional cost.					
67.06	<u>Services for Pit build up</u> Services for Pit build-ups as per relevant code & specs requirement in tank. The job includes gouging, grinding, flushing, welding etc. All welding to be in accordance with relevant standard & done using specified welding procedures		EA	16,898		
67.07	<u>Repair of weld seam</u> Repairing of weld seams as per relevant code & specs requirement. The job includes gouging, grinding, removing of old welding, cold cutting/flame cutting, flushing, re-grooving, re-welding, recapping etc. All welding to be in accordance with relevant standard & done using specified welding procedures		M	100		
67.08	<u>SCAFFOLDING</u> Contractor to provide Scaffolding and Stagging Platform in-accordance with Safety requirements for the execution of work for construction. The job includes erection & dismantling of scaffolding / stagging platform for tank (inside and outside) entire mechanical work, grit blasting &		EA	1		



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Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	painting works inside and outside during the entire course of project. Scaffolding / staging platform shall be the responsibility of contractor. Scope of work also include providing and fixing of metal planks platform, bracing, provision of step ladders and lifeline, etc. as applicable. The contractor will also bear the cost of third party inspection and certification of the scaffolding. All direct / indirect cost of material, labour, transportation required to carry out the activity is included in this item.					
67.09	<u>Removal/Install. of cladding, insulation</u> Removal/install. of cladding, insulation,, Removal and disposal of cladding and insulation from pipelines, tanks etc complete in all respects and disposal of same as per satisfaction of PSO Engineer.,,		M2	2,500		
67.10	<u>Rockwool insulation and GI cladding</u> Rockwool insulation and GI cladding,, Providing and fixing in position rockwool insulation tanks followed by GI (22 gauge). The job include supply / fixing of all material and hardware e.g. insulation, clamps, clips, spacers to hold the insulation in position, G.I. cladding, chicken wire mesh and hard insulation material of asbestos to be placed under the pipeline at supports etc. complete in all respect. as per drawings and specifications. Note: 1) Rockwool insulation 50 mm thick, density 60 kg per cum to be used. 2) Outer dia of the GI sheet will be considered for calculating the area of the insulation,,		M2	10		
67.11	<u>Grit Blasting</u> Grit Blasting Grit blasting (Local or Imported garnet / copper slag) for outer surface of Tank bottom, shell, roof, underground/above ground pipeline, steel structure to near white metal surface to the satisfaction of PSO		M2	9,550		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
67.12	Engineer completely stain free surface. Follow the standard of surface preparation to Swedish Standard SIS 055900 Sa-2-1/2 or Steel Structures Painting Council SSPC-SP10 (i.e #near white# blasted finish). Any solvent required clean greasy spots to be supplied by the contractor. Providing and applying Paint Coating for tanks roof (outer side) etc Coating for tanks roof (outer side), Top railing and allied structure as per specifications attached in Annexure in Painting Specifications (PSO-PS-01). Notes: 1. Color scheme may change as per PSO requirements. 2. Minimum no. of coats and Drying Time to be provided in accordance with paint manufacturer recommendations. 3. Arrangement of Instrument for measurement of paint thickness is included in contractor scope. 4. Contractor to submit technical literature / brochure of paint and obtain prior approval from PSO before procurement of material.		M2	3,000		
67.13	Providing and applying Paint Coating of tank outer shell / pipeline etc. Coating of Tank outer shell, staircase, platforms, pipeline as per specifications attached in Annexure (PSO-PS-01 Rev-0 dated: 30.08.2019). Notes: 1. Color scheme may change as per PSO requirements. 2. Minimum no. of coats and Drying Time to be provided in accordance with paint manufacturer recommendations. 3. Arrangement of Instrument for measurement of paint thickness is included in contractor scope. 4. Contractor to submit technical literature / brochure of paint and obtain prior approval from PSO before procurement of material.		M2	2,500		



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Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
67.14	<u>Providing and applying Paint</u> Coating of Tank outer shell / pipeline etc (Existing paint available) Coating of Tank outer shell, staircase, platforms, pipeline as per specifications attached in Annexure (PSO-PS-01 Rev-0 dated: 30.08.2019). Notes: 1. Color scheme may change as per PSO requirements. 2. Minimum no. of coats and Drying Time to be provided in accordance with paint manufacturer recommendations. 3. Arrangement of Instrument for measurement of paint thickness is included in contractor scope. 4. Contractor to submit technical literature / brochure of paint and obtain prior approval from PSO before procurement of material.		M2	10		
67.15	<u>Application of Epoxy primer</u> High Build Epoxy Primer Supply and application of High Build Epoxy Primer of PSO's approved make on the bottom plates, internal structural steel, etc. as per instructions of PSO Engineer to a DFT of 100 microns in a min. of two coats. Job should be done according to applicable codes, standards, as per specifications of Paint manufacturer and as per instructions of PSO Engineer.		M2	3,300		
67.16	<u>Application of Epoxy finish coat</u> High Build Epoxy Finish Supply and application of High Build Epoxy Finish Coat of PSO's approved make on the bottom plates, internal structural steel, etc. as per instructions of PSO Engineer to a DFT of 250 microns in min. of two coats. Job should be done according to applicable codes, standards, as per specifications of Paint manufacturer and as per instructions of PSO Engineer.		M2	3,300		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
67.17	<u>Mechanical cleaning</u> Mechanical cleaning Mechanical cleaning of external surface of tank shell, allied pipelines, platform, structural supports, etc. as per instructions of PSO engineer. All equipment, material labour required to be provided by the contractor.		M2	25		
67.18	<u>Application of Red Lead Primer</u> Red Lead Primer,, Supply and application of Red Lead Primer of approved make as per SOW-01 (for Rehabilitation of Tanks) and paint manufacturer recommendation.,,		EA	10		
67.19	<u>Application of enamel</u> Enamel Finish Top Coat,, Supply and application of Finish Top Coat of approved make as per SOW-01 (for Rehabilitation of Tanks) and paint manufacturer recommendation.,,		M2	10		
67.20	<u>Application of Epoxy</u> Coal Tar Epoxy Supply and application of three coats of coal tar epoxy each of 125 microns (of PSO's approved make) on the Bottom Plates, underground Pipeline / Piping etc. as per instructions of PSO engineer. Job should be done according to applicable codes, standards, as per specifications of Paint manufacturer and as per instructions of PSO Engineer. The job also includes the supply & application of Epoxy Primer to a DFT of 75 microns of the same manufacturer (compatible to coal tar epoxy) before applying coal tar epoxy as per instructions of PSO engineer.		M2	750		
67.21	<u>Surface Preparation</u> Sweep Blasting prior to inspection of tank,, Surface Preparation of tank bottom for inspection of tank. Abrasive material to be blast on surface to remove all oil, grease, dirt, rust		M2	50		



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SAP No.6100017486

Company PSO Dummy Vendor
PAKISTAN

QUOTATION REQUIRED

ON
(Date)

06.08.2026

BY
(Time)

Please quote your best price for all items of following specifications. Please read the instructions attached herewith Rs. _____ EARNEST MONEY %
PO/DD NO. _____

Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
67.22	scale, loose mill scale, loose rust, old paint and get it ready for inspection. Follow the standard of surface preparation to Steel Structures Painting Council SSPC-SP7 (Brush off Blast), Coating of Projection plate Coating on Tank Projection Plate Supply and application of Coating on projection plate as per attached specification (PSO-PS-01 Rev-0 dated: 30.08.2019).		M	200		
67.23	Surface Preparation Jet wash on tank ,, Washing of Tank for application of coating when product is available in Tank. To follow the standard of WJ-2 #Wa 2-1/2 (Soda wash) where surface preparation are not followed due to product in the tanks,,		M2	10		
67.24	Stencilling on Tanks Stenciling on tank ,, Stenciling on tank covering tank dia, tank height, product capacity, year built, last painted etc. as per instruction of PSO engineer. Paint of approved make in black shade to be supplied by the contractor.,,		JOB	1		
67.25	Outlet Name Plate Name plate,, Supply and installation of SS Name plate as per API 650. Job also includes all requirement for installation on tank.,,		EA	1		
67.26	Vacuum box testing Vacuum box testing of Bottom,, Vacuum box testing of bottom (after repair of bottom, if required) by vacuum box and soap sud method to detect any leakage. All equipment, tools, material and labor to be provided by the contractor. Vacuum box to be provided by contractor. NOTE: 1 Job includes complete bottom testing after rehabilitation. If partial bottom is required to be done after rehabilitation then reduced		EA	1		



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67.27	payment (quantity) will be paid to the contractor.,, Hydrostatic testing of tank Hydrotesting of Tank,, Hydrotesting of Tank as per relevant code requirement with clean water having PH value in accordance with API 650. However, if corrosion inhibitors and chemicals are to be used then basis for required quantity and other technical details from manufacturer to be shared with PSO prior to execution of work to ensure quality of water as mentioned above. Water and other chemical (if required) for testing to be provided by contractor. All pump(s), pipeline, arrangements, calibrated testing equipments, tools, material, chemicals and labour to be arranged by the contractor. The job also includes draining the water out of the tank and its proper disposal as per the instruction of PSO Site Engineer.,, Note:,, 1. Cost for water testing to ensure specification of water will be borne by contractor. ,, 2. Water test will be conducted from reputable lab as per satisfaction of PSO Engineer. 3. Activity should not cause any hindrance to routine PSO Terminal Operations.,,		EA	1		
67.28	Vacuum box testing of roof Vacuum box testing of Roof,, Soap sud / Vacuum box testing of roof and pressure testing of reinforcement pads/doublers by compressor. Equipment to be supplied by contractor. NOTE: 1 Job includes complete roof testing after rehabilitation. If partial roof is required to be done after rehabilitation then reduced payment (quantity) will be paid to the contractor.,,		EA	1		
67.29	Calibration of Tank Calibration of the tank,, Calibration of the tank by optistrap method any reputable firm. The scope of work also include preparation and submitting of the calibration		JOB	1		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
67.30	charts on the specified format after obtaining approval from PAK PWD and other Govt. agencies if required,, <u>Oil Penetrant Testing</u> Oil penetration testing of the tank,, Oil Penetration testing of tank Shell-Bottom joint (root). All equipment and consumables to be provided by the contractor. 1 Job includes complete shell-bottom joint testing. If partial testing is required, then reduced payemnt (quantity) will be paid to the contractor accordingly. Testing as per relevant standards.,,		JOB	1		
67.31	<u>Leak Testing of Nozzles</u> Leak testing of nozzles,, Pressurized pneumatic leak testing of shell nozzles and reinforcement pads. All equipment and consumables to be provided by the contractor. Testing as per relevant standards.,,		EA	5		
67.32	<u>Radiographic Testing</u> Radiographic Testing of the tank,, Radiographic Testing of Tank (wherever required) as per standard and as per satisfaction of PSO Engineer. All arrangement for Radiographic Testing and availability of equipment to be made availabale by contractor. NOTE: 1 EA includes quantity of film required for T-joints or horizontal / Vertical joints on tank.,,		EA	25		
67.33	<u>Radiographic Testing</u> Radiographic Testing of the Pipeline,, Radiographic Testing of Pipeline (wherever required) as per standard and as per satisfaction of PSO Engineer. All arrangement for Radiographic Testing and availability of equipment to be made availabale by contractor. NOTE: 1 EA includes quantity of single weld joints on pipeline.,,		EA	5		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
67.34	#,, 30" dia,, Radiographic Testing Radiographic Testing of the Pipeline,, Radiographic Testing of Pipeline (wherever required) as per standard and as per satisfaction of PSO Engineer. All arrangement for Radiographic Testing and availability of equipment to be made available by contractor. NOTE: 1 EA includes quantity of single weld joints on pipeline.,#,, 24" dia,,		EA	5		
67.35	Radiographic Testing Radiographic Testing of the Pipeline,, Radiographic Testing of Pipeline (wherever required) as per standard and as per satisfaction of PSO Engineer. All arrangement for Radiographic Testing and availability of equipment to be made available by contractor. NOTE: 1 EA includes quantity of single weld joints on pipeline.,#,, 18" dia,,		EA	2		
67.36	Radiographic Testing Radiographic Testing of the Pipeline,, Radiographic Testing of Pipeline (wherever required) as per standard and as per satisfaction of PSO Engineer. All arrangement for Radiographic Testing and availability of equipment to be made available by contractor. NOTE: 1 EA includes quantity of single weld joints on pipeline.,#,, 06" dia,,		EA	5		
67.37	Providing MPI test shell/bottom joints Magnetic Partical Inspection of the tank,, Magnetic Particle Testing of Tank (wherever required) as per standard and as per satisfaction of PSO Engineer. All arrangement for Magnetic Particle Inspection and availability of equipment to be made available		EA	1		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	by contractor. NOTE: 1 Job includes complete shell to bottom joint inspection of tank. "					
67.38	<u>Dye Penetrant Testing of Tank</u> Dye Penetrant Testing of the tank,, Dye Penetrant Testing of Tank / Pipeline(wherever required) as per standard and as per satisfaction of PSO Engineer. All arrangement for Dye Penetrant Testing to be made by contractor.,,		M	15		
67.39	<u>Cutting / Removal of Pipelines 30" dia</u> Cutting, removal and transportation of existing above ground / underground pipeline / pipings and pipe fittings etc. From site within the PSO terminal and stacking the same in position for safe store-keeping within the depot premises as per sizes below:,, #,, 30" dia,,		M	6		
67.40	<u>Cutting / Removal of Pipelines 24" dia</u> Cutting, removal and transportation of existing above ground / underground pipeline / pipings and pipe fittings etc. From site within the PSO terminal and stacking the same in position for safe store-keeping within the depot premises as per sizes below: 24" dia		M	6		
67.41	<u>Cutting / Removal of Pipelines 18" dia</u> Cutting, removal and transportation of existing above ground / underground pipeline / pipings and pipe fittings etc. From site within the PSO terminal and stacking the same in position for safe store-keeping within the depot premises as per sizes below: 18" dia		M	6		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
67.42	Cutting / Removal of Pipelines 10" dia Cutting, removal and transportation of existing above ground / underground pipeline / pipings and pipe fittings etc. From site within the PSO terminal and stacking the same in position for safe store-keeping within the depot premises as per sizes below:,, #,, 10" dia,,		M	6		
67.43	Cutting / Removal of Pipelines 8" dia Cutting, removal and transportation of existing above ground / underground pipeline / pipings and pipe fittings etc. From site within the PSO terminal and stacking the same in position for safe store-keeping within the depot premises as per sizes below: 08" dia		M	6		
67.44	Cutting / Removal of Pipelines 6" dia Cutting, removal and transportation of existing above ground / underground pipeline / pipings and pipe fittings etc. From site within the PSO terminal and stacking the same in position for safe store-keeping within the depot premises as per sizes below: 06" dia		M	36		
67.45	Cutting / Removal of Pipelines 4" dia Cutting, removal and transportation of existing above ground / underground pipeline / pipings and pipe fittings etc. From site within the PSO terminal and stacking the same in position for safe store-keeping within the depot premises as per sizes below: 04" dia		M	104		
67.46	Cutting / Removal of Pipelines 3" dia		M	12		
67.47	Cutting / Removal of Pipelines 1" dia Cutting, removal and transportation of existing above ground /		M	12		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
67.48	underground pipeline / pipings and pipe fittings etc. From site within the PSO terminal and stacking the same in position for safe store-keeping within the depot premises as per sizes below: 01" dia Cutting / Removal of Pipelines 3/4" dia Cutting, removal and transportation of existing above ground / underground pipeline / pipings and pipe fittings etc. From site within the PSO terminal and stacking the same in position for safe store-keeping within the depot premises as per sizes below: 3/4" dia		M	12		
67.49	Cutting / Removal of Pipelines 1/2" dia Cutting, removal and transportation of existing above ground / underground pipeline / pipings and pipe fittings etc. From site within the PSO terminal and stacking the same in position for safe store-keeping within the depot premises as per sizes below: 1/2" dia		M	11.030		
67.50	Shifting and Placing of Pipes 30" dia Shifting and placing pipes & fittings in position underground , aboveground pipe for welding or screwing, as per sizes below:,, ,,,, #,,,, 30" dia,,,,		M	6		
67.51	Shifting and Placing of Pipes 24" dia Shifting and placing pipes & fittings in position underground , aboveground pipe for welding or screwing, as per sizes below: 24" dia		M	6		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
67.52	<u>Shifting and Placing of Pipes 18" dia</u> Shifting and placing pipes & fittings in position underground <>,<>> aboveground pipe for welding or screwing, as per sizes below: 18" dia		M	6		
67.53	<u>Shifting and Placing of Pipes 10" dia</u>		M	6		
67.54	<u>Shifting and Placing of Pipes 8" dia</u> Shifting and placing pipes & fittings in position underground , aboveground pipe for welding or screwing, as per sizes below: 08" dia		M	6		
67.55	<u>Shifting and Placing of Pipes 6" dia</u> Shifting and placing pipes & fittings in position underground , aboveground pipe for welding or screwing, as per sizes below: 06" dia		M	54		
67.56	<u>Shifting and Placing of Pipes 4" dia</u> Shifting and placing pipes & fittings in position underground , aboveground pipe for welding or screwing, as per sizes below: 04" dia		M	104		
67.57	<u>Shifting and Placing of Pipes 3" dia</u> Shifting and placing pipes & fittings in position underground , aboveground pipe for welding or screwing, as per sizes below: 03" dia		M	12		
67.58	<u>Shifting and Placing of Pipes 1" dia</u>		M	24		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
67.59	Shifting and placing pipes & fittings in position underground , aboveground pipe for welding or screwing, as per sizes below: 01" dia <u>Shifting and Placing of Pipes 3/4" dia</u>		M	12		
67.60	Shifting and placing pipes & fittings in position underground , aboveground pipe for welding or screwing, as per sizes below: 3/4" dia <u>Shifting and Placing of Pipes 1/2" dia</u>		M	12		
67.61	Shifting and placing pipes & fittings in position underground , aboveground pipe for welding or screwing, as per sizes below: 1/2" dia <u>Making weld joints of Pipes 30" dia</u>		EA	10		
	Making weld / thread joints as per ASME B 31.3 and API 1104 in CS pipe in joining pipe lengths and in welded pipe fittings such as flanges, bends, elbows, reducers tees etc. The job includes beveling, preparation of threads in piping (for threaded piping), flame cutting, grinding etc. All welding to be in accordance with relevant standard & done using specified welding procedures:,, Note: ,, 1) The welding of both the faces of S.O. R.F. flanges will be considered as one welding joint.,, 2) The welding joints also includes the tie- connections in the pipelines. Branch pipe connection will be considered for welding joint. ,, #,, 30" dia,,					
67.62	<u>Making weld joints of Pipes 24" dia</u>		EA	6		
	Making weld / thread joints as per ASME B 31.3 and API 1104 in CS pipe					



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	in joining pipe lengths and in welded pipe fittings such as flanges, bends, elbows, reducers tees etc. The job includes beveling, preparation of threads in piping (for threaded piping), flame cutting, grinding etc. All welding to be in accordance with relevant standard & done using specified welding procedures:,, Note: ,, 1) The welding of both the faces of S.O. R.F. flanges will be considered as one welding joint.,, 2) The welding joints also includes the tie- connections in the pipelines. Branch pipe connection will be considered for welding joint. ,, #,, 24" dia,,					
67.63	<u>Making weld joints of Pipes 18" dia</u> Making weld / thread joints as per ASME B 31.3 and API 1104 in CS pipe in joining pipe lengths and in welded pipe fittings such as flanges, bends, elbows, reducers tees etc. The job includes beveling, preparation of threads in piping (for threaded piping), flame cutting, grinding etc. All welding to be in accordance with relevant standard & done using specified welding procedures:,, Note: ,, 1) The welding of both the faces of S.O. R.F. flanges will be considered as one welding joint.,, 2) The welding joints also includes the tie- connections in the pipelines. Branch pipe connection will be considered for welding joint. ,, #,, 18" dia,,		EA	6		
67.64	<u>Making weld joints of Pipes 10" dia</u> Making weld / thread joints as per ASME B 31.3 and API 1104 in CS pipe in joining pipe lengths and in welded pipe fittings such as flanges, bends, elbows, reducers tees etc. The job includes beveling, preparation of threads in piping (for threaded piping), flame cutting, grinding etc.		EA	2		



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67.65	All welding to be in accordance with relevant standard & done using specified welding procedures:,, Note: ,, 1) The welding of both the faces of S.O. R.F. flanges will be considered as one welding joint.,, 2) The welding joints also includes the tie- connections in the pipelines. Branch pipe connection will be considered for welding joint. ,, #,, 10" dia,, <u>Making weld joints of Pipes 8" dia</u> Making weld / thread joints as per ASME B 31.3 and API 1104 in CS pipe in joining pipe lengths and in welded pipe fittings such as flanges, bends, elbows, reducers tees etc. The job includes beveling, preparation of threads in piping (for threaded piping), flame cutting, grinding etc. All welding to be in accordance with relevant standard & done using specified welding procedures:,, Note: ,, 1) The welding of both the faces of S.O. R.F. flanges will be considered as one welding joint.,, 2) The welding joints also includes the tie- connections in the pipelines. Branch pipe connection will be considered for welding joint. ,, #,, 08" dia,,		EA	5		
67.66	<u>Making weld joints of Pipes 6" dia</u> Making weld / thread joints as per ASME B 31.3 and API 1104 in CS pipe in joining pipe lengths and in welded pipe fittings such as flanges, bends, elbows, reducers tees etc. The job includes beveling, preparation of threads in piping (for threaded piping), flame cutting, grinding etc. All welding to be in accordance with relevant standard & done using specified welding procedures:,, Note: ,,		EA	30		



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67.67	1) The welding of both the faces of S.O. R.F. flanges will be considered as one welding joint., 2) The welding joints also includes the tie- connections in the pipelines. Branch pipe connection will be considered for welding joint. ” #,, 06" dia,, <u>Making weld joints of Pipes 4" dia</u> Making weld / thread joints as per ASME B 31.3 and API 1104 in CS pipe in joining pipe lengths and in welded pipe fittings such as flanges, bends, elbows, reducers tees etc. The job includes beveling, preparation of threads in piping (for threaded piping), flame cutting, grinding etc. All welding to be in accordance with relevant standard & done using specified welding procedures:,, Note: ,, 1) The welding of both the faces of S.O. R.F. flanges will be considered as one welding joint., 2) The welding joints also includes the tie- connections in the pipelines. Branch pipe connection will be considered for welding joint. ” #,, 04" dia,,		EA	40		
67.68	<u>Making weld joints of Pipes 3" dia</u> Making weld / thread joints as per ASME B 31.3 and API 1104 in CS pipe in joining pipe lengths and in welded pipe fittings such as flanges, bends, elbows, reducers tees etc. The job includes beveling, preparation of threads in piping (for threaded piping), flame cutting, grinding etc. All welding to be in accordance with relevant standard & done using specified welding procedures:,, Note: ,, 1) The welding of both the faces of S.O. R.F. flanges will be		EA	10		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
67 . 69	considered as one welding joint.,, 2) The welding joints also includes the tie- connections in the pipelines. Branch pipe connection will be considered for welding joint. ” #,, 03" dia,, <u>Making weld joints of Pipes 1" dia</u> Making weld / thread joints as per ASME B 31.3 and API 1104 in CS pipe in joining pipe lengths and in welded pipe fittings such as flanges, bends, elbows, reducers tees etc. The job includes beveling, preparation of threads in piping (for threaded piping), flame cutting, grinding etc. All welding to be in accordance with relevant standard & done using specified welding procedures:,, Note: ,, 1) The welding of both the faces of S.O. R.F. flanges will be considered as one welding joint.,, 2) The welding joints also includes the tie- connections in the pipelines. Branch pipe connection will be considered for welding joint. ” #,, 01" dia,,		EA	50		
67 . 70	<u>Making weld joints of Pipes 3/4" dia</u> Making weld / thread joints as per ASME B 31.3 and API 1104 in CS pipe in joining pipe lengths and in welded pipe fittings such as flanges, bends, elbows, reducers tees etc. The job includes beveling, preparation of threads in piping (for threaded piping), flame cutting, grinding etc. All welding to be in accordance with relevant standard & done using specified welding procedures:,, Note: ,, 1) The welding of both the faces of S.O. R.F. flanges will be considered as one welding joint.,, 2) The welding joints also includes the tie- connections in the		EA	20		



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Company PSO Dummy Vendor
PAKISTAN

QUOTATION REQUIRED

ON
(Date)

06.08.2026

BY
(Time)

Please quote your best price for all items of following specifications. Please read the instructions attached herewith Rs. _____ EARNEST MONEY %
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Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
67.71	pipelines. Branch pipe connection will be considered for welding joint. „ #,, 3/4" dia,, <u>Making weld joints of Pipes ½" dia</u> Making weld / thread joints as per ASME B 31.3 and API 1104 in CS pipe in joining pipe lengths and in welded pipe fittings such as flanges, bends, elbows, reducers tees etc. The job includes beveling, preparation of threads in piping (for threaded piping), flame cutting, grinding etc. All welding to be in accordance with relevant standard & done using specified welding procedures:,, Note: „ 1) The welding of both the faces of S.O. R.F. flanges will be considered as one welding joint.,, 2) The welding joints also includes the tie- connections in the pipelines. Branch pipe connection will be considered for welding joint. „ #,, 1/2" dia,,		EA	2		
67.72	<u>Bolting flanged joints in Pipes 30" dia</u> Bolting-up flanged joints in pipelines / pipings with gaskets in between flanges , as per sizes below. Gaskets will be provided by the contractor. Rates should include cost of gasket rings (150 #, 3mm Thick Compressed Graphite filled, Spiral Wound 304 S.S. Central Ring per ASME B 16.20) , STUD BOLTS (studs with 2 nuts as per ANSI B 16.5, Stud Material A 193 Gr. B7 & Nuts Material A194 Gr 2H) and of specified standards & ratings as per sizes given below:,, #,, 30" dia,,		EA	10		
67.73	<u>Bolting flanged joints in Pipes 24" dia</u> Bolting-up flanged joints in pipelines / pipings with gaskets in between flanges , as per sizes below. Gaskets will be provided by the		EA	5		



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Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
67.74	contractor. Rates should include cost of gasket rings (150 #, 3mm Thick Compressed Graphite filled, Spiral Wound 304 S.S. Central Ring per ASME B 16.20) , STUD BOLTS (studs with 2 nuts as per ANSI B 16.5, Stud Material A 193 Gr. B7 & Nuts Material A194 Gr 2H) and of specified standards & ratings as per sizes given below:,, #,, 24" dia,, <u>Bolting flanged joints in Pipes 18" dia</u>		EA	5		
67.75	Bolting-up flanged joints in pipelines / pipings with gaskets in between flanges , as per sizes below. Gaskets will be provided by the contractor. Rates should include cost of gasket rings (150 #, 3mm Thick Compressed Graphite filled, Spiral Wound 304 S.S. Central Ring per ASME B 16.20) , STUD BOLTS (studs with 2 nuts as per ANSI B 16.5, Stud Material A 193 Gr. B7 & Nuts Material A194 Gr 2H) and of specified standards & ratings as per sizes given below: 18" dia <u>Bolting flanged joints in Pipes 10" dia</u>		EA	2		
67.76	Bolting-up flanged joints in pipelines / pipings with gaskets in between flanges , as per sizes below. Gaskets will be provided by the contractor. Rates should include cost of gasket rings (150 #, 3mm Thick Compressed Graphite filled, Spiral Wound 304 S.S. Central Ring per ASME B 16.20) , STUD BOLTS (studs with 2 nuts as per ANSI B 16.5, Stud Material A 193 Gr. B7 & Nuts Material A194 Gr 2H) and of specified standards & ratings as per sizes given below:,, #,, 10" dia,, <u>Bolting flanged joints in Pipes 8" dia</u>		EA	5		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
67.77	ASME B 16.20) , STUD BOLTS (studs with 2 nuts as per ANSI B 16.5, Stud Material A 193 Gr. B7 & Nuts Material A194 Gr 2H) and of specified standards & ratings as per sizes given below: 08" dia <u>Bolting flanged joints in Pipes 6" dia</u> Bolting-up flanged joints in pipelines / pipings with gaskets in between flanges , as per sizes below. Gaskets will be provided by the contractor. Rates should include cost of gasket rings (150 #, 3mm Thick Compressed Graphite filled, Spiral Wound 304 S.S. Central Ring per ASME B 16.20) , STUD BOLTS (studs with 2 nuts as per ANSI B 16.5, Stud Material A 193 Gr. B7 & Nuts Material A194 Gr 2H) and of specified standards & ratings as per sizes given below: 06" dia		EA	10		
67.78	<u>Bolting flanged joints in Pipes 4" dia</u> Bolting-up flanged joints in pipelines / pipings with gaskets in between flanges , as per sizes below. Gaskets will be provided by the contractor. Rates should include cost of gasket rings (150 #, 3mm Thick Compressed Graphite filled, Spiral Wound 304 S.S. Central Ring per ASME B 16.20) , STUD BOLTS (studs with 2 nuts as per ANSI B 16.5, Stud Material A 193 Gr. B7 & Nuts Material A194 Gr 2H) and of specified standards & ratings as per sizes given below: 04" dia		EA	10		
67.79	<u>Bolting flanged joints in Pipes 3" dia</u> Bolting-up flanged joints in pipelines / pipings with gaskets in between flanges , as per sizes below. Gaskets will be provided by the contractor. Rates should include cost of gasket rings (150 #, 3mm Thick Compressed Graphite filled, Spiral Wound 304 S.S. Central Ring per ASME B 16.20) , STUD BOLTS (studs with 2 nuts as per ANSI B 16.5, Stud Material A 193 Gr. B7 & Nuts Material A194 Gr 2H) and of specified		EA	10		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	standards & ratings as per sizes given below:					
	03" dia					
67.80	<u>Bolting flanged joints in Pipes 1" dia</u> Bolting-up flanged joints in pipelines / pipings with gaskets in between flanges , as per sizes below. Gaskets will be provided by the contractor. Rates should include cost of gasket rings (150 #, 3mm Thick Compressed Graphite filled, Spiral Wound 304 S.S. Central Ring per ASME B 16.20) , STUD BOLTS (studs with 2 nuts as per ANSI B 16.5, Stud Material A 193 Gr. B7 & Nuts Material A194 Gr 2H) and of specified standards & ratings as per sizes given below:		EA	15		
	01" dia					
67.81	<u>Bolting flanged joints in Pipes 3/4" dia</u> Bolting-up flanged joints in pipelines / pipings with gaskets in between flanges , as per sizes below. Gaskets will be provided by the contractor. Rates should include cost of gasket rings (150 #, 3mm Thick Compressed Graphite filled, Spiral Wound 304 S.S. Central Ring per ASME B 16.20) , STUD BOLTS (studs with 2 nuts as per ANSI B 16.5, Stud Material A 193 Gr. B7 & Nuts Material A194 Gr 2H) and of specified standards & ratings as per sizes given below:		EA	10		
	3/4" dia					
67.82	<u>Bolting flanged joints in Pipes 1/2" dia</u> Bolting-up flanged joints in pipelines / pipings with gaskets in between flanges , as per sizes below. Gaskets will be provided by the contractor. Rates should include cost of gasket rings (150 #, 3mm Thick Compressed Graphite filled, Spiral Wound 304 S.S. Central Ring per ASME B 16.20) , STUD BOLTS (studs with 2 nuts as per ANSI B 16.5, Stud Material A 193 Gr. B7 & Nuts Material A194 Gr 2H) and of specified standards & ratings as per sizes given below:		EA	2		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
67.83	1/2" dia Unbolting of flanged joints Unbolting flanged joints in pipelines / pipings as per sizes below.,, #,, 30" dia,,		EA	5		
67.84	Unbolting of flanged joints Unbolting flanged joints in pipelines / pipings as per sizes below. 24" dia		EA	3		
67.85	Unbolting of flanged joints Unbolting flanged joints in pipelines / pipings as per sizes below. 18" dia		EA	3		
67.86	Unbolting of flanged joints Unbolting flanged joints in pipelines / pipings as per sizes below. 10" dia		EA	2		
67.87	Unbolting of flanged joints Unbolting flanged joints in pipelines / pipings as per sizes below. 08" dia		EA	2		
67.88	Unbolting of flanged joints Unbolting flanged joints in pipelines as per sizes below. 06" dia		EA	5		
67.89	Unbolting of flanged joints Unbolting flanged joints in pipelines as per sizes below.		EA	5		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
67.90	04" dia Unbolting of flanged joints Unbolting flanged joints in pipelines / pipings as per sizes below.		EA	5		
67.91	03" dia Unbolting of flanged joints Unbolting flanged joints in pipelines / pipings as per sizes below.		EA	5		
67.92	01" dia Unbolting of flanged joints Unbolting flanged joints in pipelines / pipings as per sizes below.		EA	5		
67.93	3/4" dia Unbolting of flanged joints Unbolting flanged joints in pipelines / pipings as per sizes below.		EA	5		
67.94	1/2" dia Installation of Valve 30" dia Placing / removing in position in pipelines / pipings, all ratings / class flanged end or screwed end valves of all types (cast steel / forged steel body gate valve, ball valve, globe valve, check valve with flapper seat of stainless steel type), gauges, strainers, foot valve, fire water monitors, fire water hydrants, water spray nozzles, expansion joints, or other similar devices having flanged ends or screwed ends as per sizes given below. The job does not include bolting up of flange joints but includes loading transporting and unloading at site all valves etc. ,, #,, 30" dia,,		EA	5		



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Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
67.95	<u>Installation of Valve 24" dia</u> Placing / removing in position in pipelines / pipings, all ratings / class flanged end or screwed end valves of all types (cast steel / forged steel body gate valve, ball valve, globe valve, check valve with flapper seat of stainless steel type), gauges, strainers, foot valve<(> ,<)> fire water monitors, fire water hydrants, water spray nozzles, expansion joints, or other similar devices having flanged ends or screwed ends as per sizes given below. The job does not include bolting up of flange joints but includes loading transporting and unloading at site all valves etc.		EA	5		
67.96	<u>Installation of Valve 18" dia</u> Placing / removing in position in pipelines / pipings, all ratings / class flanged end or screwed end valves of all types (cast steel / forged steel body gate valve, ball valve, globe valve, check valve with flapper seat of stainless steel type), gauges, strainers, foot valve<(> ,<)> fire water monitors, fire water hydrants, water spray nozzles, expansion joints, or other similar devices having flanged ends or screwed ends as per sizes given below. The job does not include bolting up of flange joints but includes loading transporting and unloading at site all valves etc. 18" dia		EA	5		
67.97	<u>Installation of Valve 10" dia</u> Placing / removing in position in pipelines / pipings, all ratings / class flanged end or screwed end valves of all types (cast steel / forged steel body gate valve, ball valve, globe valve, check valve with flapper seat of stainless steel type), gauges, strainers, foot valve, fire water monitors, fire water hydrants, water spray nozzles, expansion joints, or other similar devices having flanged ends or screwed ends as per sizes given below. The job does not include bolting up of flange		EA	2		



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Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
67.98	joints but includes loading transporting and unloading at site all valves etc. ,, #,, 10" dia,, Installation of Valve 8" dia Placing / removing in position in pipelines / pipings, all ratings / class flanged end or screwed end valves of all types (cast steel / forged steel body gate valve, ball valve, globe valve, check valve with flapper seat of stainless steel type), gauges, strainers, foot valve, fire water monitors, fire water hydrants, water spray nozzles, expansion joints, or other similar devices having flanged ends or screwed ends as per sizes given below. The job does not include bolting up of flange joints but includes loading transporting and unloading at site all valves etc. 08" dia		EA	2		
67.99	Installation of Valve 6" dia Placing / removing in position in pipelines / pipings, all ratings / class flanged end or screwed end valves of all types (cast steel / forged steel body gate valve, ball valve, globe valve, check valve with flapper seat of stainless steel type), gauges, strainers, foot valve, fire water monitors, fire water hydrants, water spray nozzles, expansion joints, or other similar devices having flanged ends or screwed ends as per sizes given below. The job does not include bolting up of flange joints but includes loading transporting and unloading at site all valves etc. 06" dia		EA	5		
68.00	Installation of Valve 4" dia Placing / removing in position in pipelines / pipings, all ratings / class flanged end or screwed end valves of all types (cast steel / forged steel body gate valve, ball valve, globe valve, check valve with		EA	2		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
68.01	flapper seat of stainless steel type), gauges, strainers, foot valve, fire water monitors, fire water hydrants, water spray nozzles, expansion joints, or other similar devices having flanged ends or screwed ends as per sizes given below. The job does not include bolting up of flange joints but includes loading transporting and unloading at site all valves etc. 04" dia Installation of Valve 3" dia Placing / removing in position in pipelines / pipings, all ratings / class flanged end or screwed end valves of all types (cast steel / forged steel body gate valve, ball valve, globe valve, check valve with flapper seat of stainless steel type), gauges, strainers, foot valve<(> ,<)> fire water monitors, fire water hydrants, water spray nozzles, expansion joints, or other similar devices having flanged ends or screwed ends as per sizes given below. The job does not include bolting up of flange joints but includes loading transporting and unloading at site all valves etc. 03" dia		EA	5		
68.02	Installation of Valve 1" dia Placing / removing in position in pipelines / pipings, all ratings / class flanged end or screwed end valves of all types (cast steel / forged steel body gate valve, ball valve, globe valve, check valve with flapper seat of stainless steel type), gauges, strainers, foot valve, fire water monitors, fire water hydrants, water spray nozzles, expansion joints, or other similar devices having flanged ends or screwed ends as per sizes given below. The job does not include bolting up of flange joints but includes loading transporting and unloading at site all valves etc. 01" dia		EA	5		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
68.03	<u>Installation of Valve 3/4" dia</u> Placing / removing in position in pipelines / pipings, all ratings / class flanged end or screwed end valves of all types (cast steel / forged steel body gate valve, ball valve, globe valve, check valve with flapper seat of stainless steel type), gauges, strainers, foot valve, fire water monitors, fire water hydrants, water spray nozzles, expansion joints, or other similar devices having flanged ends or screwed ends as per sizes given below. The job does not include bolting up of flange joints but includes loading transporting and unloading at site all valves etc. 3/4" dia		EA	5		
68.04	<u>Installation of Valve 1/2" dia</u> Placing / removing in position in pipelines / pipings, all ratings / class flanged end or screwed end valves of all types (cast steel / forged steel body gate valve, ball valve, globe valve, check valve with flapper seat of stainless steel type), gauges, strainers, foot valve, fire water monitors, fire water hydrants, water spray nozzles, expansion joints, or other similar devices having flanged ends or screwed ends as per sizes given below. The job does not include bolting up of flange joints but includes loading transporting and unloading at site all valves etc. 1/2" dia		EA	5		
68.05	<u>Dip hatch cover 6" dia</u> Supply and installation of Dip hatch covers of 6" dia in aluminum casting.		EA	2		
68.06	<u>Flame Cutting /Cold Cutting of Pipe</u> Cold Cutting by means of standard tool for cutting of pipeline carrying hazardous product of existing above ground/underground pipeline and pipe fittings etc. within the PSO terminal premises. Contractor will ensure		EA	4		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
68.07	compliance to HSE requirement as per PSO requirements.,, #,, 30" dia,, Flame Cutting /Cold Cutting of Pipe Cold Cutting by means of standard tool for cutting of pipeline carrying hazardous product of existing above ground/underground pipeline and pipe fittings etc. within the PSO terminal premises. Contractor will ensure compliance to HSE requirement as per PSO requirements.,, #,, 24" dia,,		EA	2		
68.08	Flame Cutting /Cold Cutting of Pipe Cold Cutting by means of standard tool for cutting of pipeline carrying hazardous product of existing above ground/underground pipeline and pipe fittings etc. within the PSO terminal premises. Contractor will ensure compliance to HSE requirement as per PSO requirements.,, #,, 18" dia,,		EA	2		
68.09	Dismantling Dismantling of existing asphalt,, Dismantling and removing of existing asphalt carpet of tank and disposing it outside terminal as per instruction of PSO site engineer.,,		M3	60.000		
68.10	Bitumen Sand Layer Bitumen Sand Layer,, Providing and applying asphalt sand mix layer 75 mm thick, on the firm and compacted surface including tack coat @ 0.75 liters / sq.m. Asphalt compacting with ASTM D 946 or AASHTO M20 penetration grade 60 / 70 with mixing proportion of 6% asphalt, 18% crushed stone (2.5 mm - 5 mm), 66% well graded sand and fine aggregates (0.07 mm - 0.42 mm). The asphalt surface shall be compacted to the required slope. Complete in all respects as per drawing, specification and as directed by the Company's Representative / Engineer.,,		M3	60.000		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
68.11	<u>Excavation</u> Excavation,, Excavation in all kinds of strata / soil (dry or wet, hard or soft, etc) including clearing and grubbing of site complete in all respects, including all operation, complete with breaking clods, levelling, dressing, dewatering, shoring & compacting. Also include backfilling of excavated stuff inclusive of breaking clods, dressing, watering and consolidating by ramming (by power roller, mechanical rammer, plate vibrator, roller of suitable size or other approved equipment as per instructions of PSO Site Engineer) in layers not exceeding 6" depth. 95% modified AASHTO density to be achieved where applicable. Lifting, shifting or disposing of surplus strata outside the premises or as per instructions & approval of PSO Engineer area also included in this item. Contractor will carryout compaction test as per specification & instructions (where required by PSO) without any extra cost.,, Note: Excavation dimensions as per approved drawing / PSO instruction shall be considered for measurement / payment. Cost includes Compaction Test and other related tests to be carried out (where required) through approved laboratory to be arranged and paid by the contractor. No extra charges/payments will be paid to contractor.,,		M3	150.000		
68.12	<u>Laying of CC 1:2:4 S.R Cement</u> Concrete CC 1:2:4,, Providing and laying CC 1:2:4 (using S.R cement) of specified strength using approved quality 3/4" max. size graded crushed stone and and fine aggregate of required properties including water tight approved form work, mixing, transporting, placing, levelling, compaction, rodding, vibrating, finishing and curing etc. scaffolding, racking out and cleaning, excluding cost of reinforcement, complete in all respects and as per instructions of PSO Engineer. Cube test for finding the crushing strength of concrete will be carried out to confirm the desired strength at contractors own cost i.e. (3000 psi at 28 days, 2100 psi at 7 days). The cube tests will be carried out by contractor from PSO approved laboratory or as per instruction of PSO site Engineer. Cost also		M3	10.000		



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SAP No.6100017486

Company PSO Dummy Vendor
PAKISTAN

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ON
(Date)

06.08.2026

BY
(Time)

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Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
68.13	includes preparation of construction joints as per site conditions, specifications and directions of Engineer Incharge., Note: NEW-PAGE 1) No extra charges/payment will be made for cube testing. NEW-PAGE 2) C.C 1:2:4 dimensions as per approved drawing/ PSO instruction shall be considered for measurement / payment.,, <u>Laying of CC 1:4:8 S.R. Cement</u> Concrete CC 1:4:8,, Providing and laying C.C. 1:4:8 with S.R.Cement specified strength at any level using approved quality 3/4" max. size graded crushed stone and fine aggregate of required properties of approved source including water tight approved form work (installation & removal), mixing, transporting, placing, compacting, vibrating, finishing and curing etc., scaffolding, racking out and cleaning complete in all respects and as per instructions of PSO Engineer. Note: C.C 1:4:8 dimensions as per approved drawing/ PSO instruction shall be considered for measurement / payment.,,		M3	7.000		
68.14	<u>Laying of CC 1:1-1/2:3 S.R Cement</u> Concrete CC 1:1.5:3,, Providing and laying C.C 1:1.5:3 with S.R.Cement specified strength at any level using approved quality 3/4" max. size graded crushed stone and fine aggregate of required properties of approved source including water tight approved form work (installation & removal), mixing, transporting, placing, compacting, vibrating, finishing and curing etc., scaffolding, racking out and cleaning complete in all respects and as per instructions of PSO Engineer. Note: C.C 1:1.5:3 dimensions as per approved drawing/ PSO instruction shall be considered for measurement / payment.,,		M3	2.000		
68.15	<u>Providing and applying Cement Plaster</u> Plaster,,		M2	200		



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Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
68.16	Providing and applying cement plaster 3/4" thick in 1:4 cement sand mortar (using SR cement) to walls, base including all corners, recesses, jams and racking out joints, roughing the surfaces and cement slurry backing to all surfaces, curing and scaffolding. This job also includes using of pudlo 5 lbs per bag of cement. All work will be carried out as per instructions of PSO Engineer.,, PB4 CONCRETE WAT PROOF PB4 Hot Bitumen,, Providing & applying PB4 Hot/Cold Bitumen of approved make with water proof chemical on foundations (inside/ outside) upto plinth level to sides and top of footings, situ walls, columns, sides of plinth beams and floor etc. as per manufacturer recommendations including cost of all material, labour, equipments complete as per specification and as directed by the PSO Engineer Incharge.,,		M2	60		
68.17	Sand fill for tank Sand Fill,, Providing and laying sand fill of approved quality as per drawing, including compacting (by power roller, mechanical rammer, plate vibrator, roller of suitable size or other approved equipment as per instructions of PSO Site Engineer) and watering in layers not exceeding 8" depth to obtain 95% modified AASHTO density. Contractor will carryout compaction test (where required by PSO) as per specification & instructions with out any extra cost.,, Note: Dimensions as per approved drawings/ PSO instruction shall be considered for measurement / payment. Cost includes compaction tests (at least 1 no. for each layer) where required, and other related tests shall be carried out and paid by the contractor.,,		M3	30.000		
68.18	Earthing of tank Earthing of Tank,, Supply and installation of earthing as per attached drawing 018-71-ELT-003 (2 sheets). All materials and services required for execution of job is included in the item.,,		EA	4		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
68.19	<u>Dismantling of Existing Civil Structure</u> Dismantling of existing civil structure including foundation, supports, pedestals, pavements, tank wall, roof, tank bottom or any other structure to a varying depth as required. This Job also includes removal of deformed steel from the civil structure, shifting of debris outside the terminal to a suitable place, general cleaning of the site and shifting of useful material on proposed location complete in all respect as advised by Site Incharge / Engineer.		M3	5.000		
68.20	<u>BRICK / BLOCK MASONARY</u> Providing & laying first class brick / machine made block masonry (in super structure using graded screened 'Bajri') in SR cement of specified thickness set in 1:4 cement sand mortar. The job includes required scaffolding, staging, racking out, curing D.P.C. etc. & cleaning and provision of expansion joints & 15 days water curing of masonry. The complete Job to be done as per directives of PSO Engineer. Supply & application of expansion joint is included in this item.		M3	10.000		
68.21	<u>Providing and laying TOR steel reinforce</u> Installation of deformed steel reinforcement bars including straightening, removing twists, cutting, bending, binding, wastage and overlaps, placing in position on precast cc chairs, tying with binding wire 18 SWG, complete as per instructions of the PSO Engineer. Only actual laid quantities will be considered for payment. Deformed steel reinforcement of yield strength 60000psi.		KG	1,000.000		
68.22	<u>Dye Penetrant Testing</u> Dye Penetrant Testing of Pipeline,, #,, DPT of weld joints as per ASME Section V,, 30" dia,,		EA	10		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
68.23	<u>Dye Penetrant Testing</u> Dye Penetrant Testing of Pipeline,, #,, DPT of weld joints as per ASME Section V,, 24" dia,,		EA	6		
68.24	<u>Dye Penetrant Testing</u> Dye Penetrant Testing of Pipeline,, #,, DPT of weld joints as per ASME Section V,, 18" dia,,		EA	6		
68.25	<u>Dye Penetrant Testing</u> Dye Penetrant Testing of Pipeline,, #,, DPT of weld joints as per ASME Section V,, 10" dia,,		EA	2		
68.26	<u>Dye Penetrant Testing</u> Dye Penetrant Testing of Pipeline,, #,, DPT of weld joints as per ASME Section V,, 08" dia,,		EA	5		
68.27	<u>Dye Penetrant Testing</u> Dye Penetrant Testing of Pipeline,, #,, DPT of weld joints as per ASME Section V,, 06" dia,,		EA	30		
68.28	<u>Dye Penetrant Testing</u> Dye Penetrant Testing of Pipeline,, #,, DPT of weld joints as per ASME Section V,, 04" dia,,		EA	40		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
68.29	<u>Dye Penetrant Testing</u> Dye Penetrant Testing of Pipeline,, #,, DPT of weld joints as per ASME Section V,, 01" dia,,		EA	10		
68.30	<u>Dye Penetrant Testing</u> Dye Penetrant Testing of Pipeline,, #,, DPT of weld joints as per ASME Section V,, 01" dia,,		EA	50		
68.31	<u>Dye Penetrant Testing</u> Dye Penetrant Testing of Pipeline,, #,, DPT of weld joints as per ASME Section V,, 3/4" dia,,		EA	20		
68.32	<u>Dye Penetrant Testing</u> Dye Penetrant Testing of Pipeline,, #,, DPT of weld joints as per ASME Section V,, 1/2" dia,,		EA	2		
68.33	<u>Hydrostatic testing of Pipe 30" dia</u> Hydrostatic testing of complete pipeline system as per API. 1110, recommended practice for the pressure testing of liquid petroleum pipelines. All pipeline, testing equipment and labour to be arranged by the contractor. Water for hydrostatic testing to be provided by Contractor.,, #,, 30" dia,,		M	6		
68.34	<u>Hydrostatic testing of Pipe 24" dia</u>		M	6		



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Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
68.35	Hydrostatic testing of complete pipeline system as per API. 1110, recommended practice for the pressure testing of liquid petroleum pipelines. All pipeline, testing equipment and labour to be arranged by the contractor. Water for hydrostatic testing to be provided by Contractor.,, #,, 24" dia,, Hydrostatic testing of Pipe 18" dia		M	6		
68.36	Hydrostatic testing of complete pipeline system as per API. 1110<(>,<)> recommended practice for the pressure testing of liquid petroleum pipelines. All pipeline, testing equipment and labour to be arranged by the contractor. Water for hydrostatic testing to be provided by Contractor.,, #,, 18" dia,, Hydrostatic testing of Pipe 10" dia		M	6		
68.37	Hydrostatic testing of complete pipeline system as per API. 1110, recommended practice for the pressure testing of liquid petroleum pipelines. All pipeline, testing equipment and labour to be arranged by the contractor. Water for hydrostatic testing to be provided by Contractor.,, #,, 08" dia,, Hydrostatic testing of Pipe 8" dia		M	6		



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Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
68.38	Hydrostatic testing of Pipe 6" dia Hydrostatic testing of complete pipeline system as per API. 1110, recommended practice for the pressure testing of liquid petroleum pipelines. All pipeline, testing equipment and labour to be arranged by the contractor. Water for hydrostatic testing to be provided by Contractor.,, #.,, 06" dia.,		M	54		
68.39	Hydrostatic testing of Pipe 4" dia Hydrostatic testing of complete pipeline system as per API. 1110, recommended practice for the pressure testing of liquid petroleum pipelines. All pipeline, testing equipment and labour to be arranged by the contractor. Water for hydrostatic testing to be provided by Contractor.,, #.,, 04" dia.,		M	104		
68.40	Hydrostatic testing of Pipe 3" dia Hydrostatic testing of complete pipeline system as per API. 1110, recommended practice for the pressure testing of liquid petroleum pipelines. All pipeline, testing equipment and labour to be arranged by the contractor. Water for hydrostatic testing to be provided by Contractor.,, #.,, 03" dia.,		M	12		
68.41	Hydrostatic testing of Pipe 1" dia Hydrostatic testing of complete pipeline system as per API. 1110, recommended practice for the pressure testing of liquid petroleum pipelines. All pipeline, testing equipment and labour to be arranged by the contractor. Water for hydrostatic testing to be provided by Contractor.,, #.,, 01" dia.,		M	24		



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Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
68.42	<u>Hydrostatic testing of Pipe 3/4" dia</u> Hydrostatic testing of complete pipeline system as per API. 1110, recommended practice for the pressure testing of liquid petroleum pipelines. All pipeline, testing equipment and labour to be arranged by the contractor. Water for hydrostatic testing to be provided by Contractor.,, #.,, 3/4" dia.,		M	12		
68.43	<u>Hydrostatic testing of Pipe 1/2" dia</u> Hydrostatic testing of complete pipeline system as per API. 1110, recommended practice for the pressure testing of liquid petroleum pipelines. All pipeline, testing equipment and labour to be arranged by the contractor. Water for hydrostatic testing to be provided by Contractor.,, #.,, 1/2" dia.,		M	12		
68	<u>PIPE CS 30"dia (ERW)</u> "CS Pipe, Beveled end, API 5L Gr. B PSL-1 (ERW/SAW/SMLS) as per ANSI B 36.10. Single Random length. Standard Compliance: 1) API 5 L Latest edition 2) All materials properties and parameters shall conform to minimum requirement of API 5L, PSL 1 Pipeline 3) All test shall be performed and results shall conform to minimum requirement of API 5 L PSL 1. 4) Documentation support i.e. MTC, ISO certificate, API certificate etc to be furnished / provided by contractor for PSO review / approval before shipment of material to requisite site. Certification: 1) Manufacturer must have a valid API 5L certificate with active status on the API composite List. 2) Manufacturer must be an API certificate holder for the last 5 years minimum. "	Zot (Inst.)	M	6		



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Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
69	30" dia Std Wt <u>PIPE CS 24"dia (ERW)</u> <u>Zot (Inst.)</u> <u>M</u> "CS Pipe, Beveled end, API 5L Gr. B PSL-1 (ERW/SAW/SMLS) as per ANSI B 36.10. Single Random length. Standard Compliance: 1) API 5 L Latest edition 2) All materials properties and parameters shall conform to minimum requirement of API 5L, PSL 1 Pipeline 3) All test shall be performed and results shall conform to minimum requirement of API 5 L PSL 1. 4) Documentation support i.e. MTC, ISO certificate, API certificate etc to be furnished / provided by contractor for PSO review / approval before shipment of material to requisite site. Certification: 1) Manufacturer must have a valid API 5L certificate with active status on the API composite List. 2) Manufacturer must be an API certificate holder for the last 5 years minimum. "			6		
70	24" dia Std Wt <u>PIPE CS 10" DIA SCH-40 (ERW)</u> <u>Zot (Inst.)</u> <u>M</u> "CS Pipe, Beveled end, API 5L Gr. B PSL-1 (ERW/SAW/SMLS) as per ANSI B 36.10. Single Random length. Standard Compliance: 1) API 5 L Latest edition 2) All materials properties and parameters shall conform to minimum requirement of API 5L, PSL 1 Pipeline 3) All test shall be performed and results shall conform to minimum requirement of API 5 L PSL 1. 4) Documentation support i.e. MTC, ISO certificate, API certificate etc to be furnished / provided by contractor for PSO review / approval before shipment of material to requisite site. Certification: 1) Manufacturer must have a valid API 5L certificate with active status on the API composite List. 2) Manufacturer must be an API certificate holder for the last 5 years minimum. "			6		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
71	10"dia Std Wt <u>PIPE CS 8" DIA SCH-40 (ERW)</u> <u>Zot (Inst.)</u> <u>M</u> "CS Pipe, Beveled end, API 5L Gr. B PSL-1 (ERW/SAW/SMLS) as per ANSI B 36.10. Single Random length. Standard Compliance: 1) API 5 L Latest edition 2) All materials properties and parameters shall conform to minimum requirement of API 5L, PSL 1 Pipeline 3) All test shall be performed and results shall conform to minimum requirement of API 5 L PSL 1. 4) Documentation support i.e. MTC, ISO certificate, API certificate etc to be furnished / provided by contractor for PSO review / approval before shipment of material to requisite site. Certification: 1) Manufacturer must have a valid API 5L certificate with active status on the API composite List. 2) Manufacturer must be an API certificate holder for the last 5 years minimum. "			78		
72	08" dia Std Wt <u>PIPE CS 6" DIA SCH-40 (ERW)</u> <u>Zot (Inst.)</u> <u>M</u> "CS Pipe, Beveled end, API 5L Gr. B PSL-1 (ERW/SAW/SMLS) as per ANSI B 36.10. Single Random length. Standard Compliance: 1) API 5 L Latest edition 2) All materials properties and parameters shall conform to minimum requirement of API 5L, PSL 1 Pipeline 3) All test shall be performed and results shall conform to minimum requirement of API 5 L PSL 1. 4) Documentation support i.e. MTC, ISO certificate, API certificate etc to be furnished / provided by contractor for PSO review / approval before shipment of material to requisite site. Certification: 1) Manufacturer must have a valid API 5L certificate with active status on the API composite List. 2) Manufacturer must be an API certificate holder for the last 5 years minimum. "			72		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
73	06" dia Std Wt PIPE CS 4" DIA SCH-40 (ERW) Zot (Inst.) M "CS Pipe, Beveled end, API 5L Gr. B PSL-1 (ERW/SAW/SMLS) as per ANSI B 36.10. Single Random length. Standard Compliance: 1) API 5 L Latest edition 2) All materials properties and parameters shall conform to minimum requirement of API 5L, PSL 1 Pipeline 3) All test shall be performed and results shall conform to minimum requirement of API 5 L PSL 1. 4) Documentation support i.e. MTC, ISO certificate, API certificate etc to be furnished / provided by contractor for PSO review / approval before shipment of material to requisite site. Certification: 1) Manufacturer must have a valid API 5L certificate with active status on the API composite List. 2) Manufacturer must be an API certificate holder for the last 5 years minimum. "			24		
74	04" dia Std Wt PIPE CS 3" DIA SCH-40 (ERW) Zot (Inst.) M "CS Pipe, Beveled end, API 5L Gr. B PSL-1 (ERW/SAW/SMLS) as per ANSI B 36.10. Single Random length. Standard Compliance: 1) API 5 L Latest edition 2) All materials properties and parameters shall conform to minimum requirement of API 5L, PSL 1 Pipeline 3) All test shall be performed and results shall conform to minimum requirement of API 5 L PSL 1. 4) Documentation support i.e. MTC, ISO certificate, API certificate etc to be furnished / provided by contractor for PSO review / approval before shipment of material to requisite site. Certification: 1) Manufacturer must have a valid API 5L certificate with active status on the API composite List.			24		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	2) Manufacturer must be an API certificate holder for the last 5 years minimum. "					
	03" dia Std Wt					
75	<u>PIPE CS 1" DIA SCH-80 (Erw)</u> Supply of CS Pipe, Beveled / Plain / Threaded end, API 5L Gr. B/ ASTM A-53 GR.B ERW as per ANSI B 36.10.	<u>Zot (Inst.)</u>	<u>M</u>	24		
	01" dia Sch 80					
76	<u>PIPE CS 3/4" DIA SCH-80 (ERW)</u> Supply of CS Pipe, Beveled / Plain / Threaded end, API 5L Gr. B/ ASTM A-53 GR.B ERW as per ANSI B 36.10.	<u>Zot (Inst.)</u>	<u>M</u>	12		
	3/4" dia Sch 80					
77	<u>PIPE CS 1/2" dia Sch-80 (Seamless)</u> Supply of CS Pipe, Beveled / Plain / Threaded end, API 5L Gr. B/ ASTM A-53 GR.B ERW as per ANSI B 36.10.	<u>Zot (Inst.)</u>	<u>M</u>	6		
	1/2" dia Sch 80					
78	<u>CHECK VALVE 30" dia</u> Check Valves Specifications as mentioned in PSO-CV-010: 30" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	2		
79	<u>CHECK VALVE 18" dia</u> Check Valves Specifications as mentioned in PSO-CV-010: 18" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	1		



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REQUEST FOR QUOTATION

(THIS IS PRICE ENQUIRY-NOT AN ORDER)

SAP No.6100017486

Company PSO Dummy Vendor
PAKISTAN

QUOTATION REQUIRED

ON
(Date)

06.08.2026

BY
(Time)

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Title: Rehabilitation of Vertical Steel Storage Tank T-09 at PSO ZOT (Dia = 62.5 m, Height = 15 m)

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
80	<u>GATE VALVE 30"dia</u> Gate Valves Specifications as mentioned in PSO-GV-007: 30" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	1		
81	<u>GATE VALVE 24"dia</u> Gate Valves Specifications as mentioned in PSO-GV-007: 24" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	1		
82	<u>GATE VALVE 18"dia</u> Gate Valves Specifications as mentioned in PSO-GV-007: 18" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	1		
83	<u>GATE VALVE 6"dia</u> Gate Valves Specifications as mentioned in PSO-GV-007: 06" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	1		
84	<u>GATE VALVE 4"dia</u> Gate Valves Specifications as mentioned in PSO-GV-007: 04" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	2		
85	<u>GATE VALVE 3"dia</u> Gate Valves Specifications as mentioned in PSO-GV-007: 03" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	3		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
86	<u>GATE VALVE 1"dia</u> Gate Valves Specifications as mentioned in PSO-GV-007: 01" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	6		
87	<u>GATE VALVE 3/4"dia</u> Gate Valves Specifications as mentioned in PSO-GV-007: 3/4"Dia	<u>Zot (Inst.)</u>	<u>EA</u>	2		
88	<u>GATE VALVE 1/2"dia</u> Gate Valves Specifications as mentioned in PSO-GV-007: 1/2"Dia	<u>Zot (Inst.)</u>	<u>EA</u>	6		
89	<u>ELBOW CS 8"dia 45deg (B.W)</u> Supply of Elbow 45 degree, Long Radius, B.W. ASTM A-234 Gr. WPB as per ASME B16.9. 08" Dia Sch 40	<u>Zot (Inst.)</u>	<u>EA</u>	2		
90	<u>ELBOW CS 6"dia 45deg (B.W)</u> Supply of Elbow 45 degree, Long Radius, B.W. ASTM A-234 Gr. WPB as per ASME B16.9. 06" Dia Sch 40	<u>Zot (Inst.)</u>	<u>EA</u>	2		
91	<u>ELBOW MS 4" DIA 45 DEG SCH-40</u> Supply of Elbow 45 degree, Long Radius, B.W. ASTM A-234 Gr. WPB as per ASME B16.9.	<u>Zot (Inst.)</u>	<u>EA</u>	2		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
92	04" Dia Sch 40 ELBOW CS 30"dia 90deg (B.W) Supply of Elbow 90 degree, Long Radius, B.W. ASTM A-234 Gr. WPB as per ASME B16.9. 30" Dia Std Wt	Zot (Inst.)	EA	1		
93	ELBOW CS 24"dia 90deg (B.W) Supply of Elbow 90 degree, Long Radius, B.W. ASTM A-234 Gr. WPB as per ASME B16.9. 24" Dia Std Wt	Zot (Inst.)	EA	1		
94	ELBOW CS 8"dia 90deg (B.W) Supply of Elbow 90 degree, Long Radius, B.W. ASTM A-234 Gr. WPB as per ASME B16.9. 08" Dia Std Wt	Zot (Inst.)	EA	2		
95	ELBOW CS 6"dia 90deg (B.W) Supply of Elbow 90 degree, Long Radius, B.W. ASTM A-234 Gr. WPB as per ASME B16.9. 06" Dia Std Wt	Zot (Inst.)	EA	6		
96	ELBOW CS 4"dia 90deg (B.W) Supply of Elbow 90 degree, Long Radius, B.W. ASTM A-234 Gr. WPB as per ASME B16.9. 04" Dia Std Wt	Zot (Inst.)	EA	6		
97	ELBOW CS 1"dia 90deg (Threaded) Supply of Elbow 90 degree, Long radius, Threaded, ASTM A-105, 3000# as per ANSI B16.11	Zot (Inst.)	EA	15		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
98	01" Dia ELBOW CS 3/4"dia 90deg (Threaded) Supply of Elbow 90 degree, Long radius, Threaded, ASTM A-105, 3000# as per ANSI B16.11	Zot (Inst.)	EA	10		
99	3/4" Dia ELBOW CS 1/2"dia 90deg (Threaded) Supply of Elbow 90 degree, Long radius, Threaded, ASTM A-105, 3000# as per ANSI B16.11	Zot (Inst.)	EA	5		
100	1/2" Dia FLANGE SORF MS 30"dia Class-150 Supply of Slip-on Flanges 150#, R.F. as per ASME B16.5, ASTM A-105.	Zot (Inst.)	EA	8		
101	30" Dia FLANGE SORF MS 24"dia Class-150 Supply of Slip-on Flanges 150#, R.F. as per ASME B16.5, ASTM A-105.	Zot (Inst.)	EA	6		
102	24" Dia FLANGE SORF MS 18"dia Class-150 Supply of Slip-on Flanges 150#, R.F. as per ASME B16.5, ASTM A-105.	Zot (Inst.)	EA	4		
103	18" Dia FLANGE SORF MS 10"dia Class-150 Supply of Slip-on Flanges 150#, R.F. as per ASME B16.5, ASTM A-105.	Zot (Inst.)	EA	2		
	10" Dia					



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
104	<u>FLANGE SORE MS 8"dia Class-150</u> Supply of Slip-on Flanges 150#, R.F. as per ASME B16.5, ASTM A-105. 08" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	2		
105	<u>FLANGE Sore MS 6" dia Class-150</u> Supply of Slip-on Flanges 150#, R.F. as per ASME B16.5, ASTM A-105. 06" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	8		
106	<u>FLANGE SORE MS 4"dia Class-150</u> Supply of Slip-on Flanges 150#, R.F. as per ASME B16.5, ASTM A-105. 04" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	6		
107	<u>FLANGE SORE MS 3"dia Class-150</u> Supply of Slip-on Flanges 150#, R.F. as per ASME B16.5, ASTM A-105. 03" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	6		
108	<u>FLANGE SORE MS 1"dia Class-150</u> Supply of Slip-on Flanges 150#, R.F. as per ASME B16.5, ASTM A-105. 01" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	15		
109	<u>FLANGE SORE MS 3/4"dia Class-150</u> Supply of Slip-on Flanges 150#, R.F. as per ASME B16.5, ASTM A-105. 3/4"Dia	<u>Zot (Inst.)</u>	<u>EA</u>	15		
110	<u>FLANGE Blind MS 6" dia Class-150</u> Supply of Blind Flanges 150 # RF, as per ANSI B 16.5, ASTM A-105. 06" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	2		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
111	<u>FLANGE Blind MS 4"dia Class-150</u> Supply of Blind Flanges 150 # RF, as per ANSI B 16.5, ASTM A-105. 04" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	4		
112	<u>FLANGE Sock MS 3"dia Class-150</u> Supply of Blind Flanges 150 # RF, as per ANSI B 16.5, ASTM A-105. 03" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	6		
113	<u>Socket MS 1"dia</u> "Supply of Sockolet/Weldolet/Threadolet (as required), ASTM A 105, 3000#, as per ANSI B 16.11 The sizes below indicate outlet size (branch). Main line size may vary." Dia 1"	<u>Zot (Inst.)</u>	<u>EA</u>	5		
114	<u>Socket MS 3/4" dia</u> "Supply of Sockolet/Weldolet/Threadolet (as required), ASTM A 105, 3000#, as per ANSI B 16.11 The sizes below indicate outlet size (branch). Main line size may vary." Dia 3/4"	<u>Zot (Inst.)</u>	<u>EA</u>	5		
115	<u>SOCKET 1/2" dia</u> "Supply of Sockolet/Weldolet/Threadolet (as required), ASTM A 105, 3000#, as per ANSI B 16.11 The sizes below indicate outlet size (branch). Main line size may vary." Dia 1/2"	<u>Zot (Inst.)</u>	<u>EA</u>	2		
116	<u>PRESSURE RELIEF VALVE (SAFETY VALVE).</u>	<u>Zot (Inst.)</u>	<u>EA</u>	6		



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
117	"Pressure Relief Valve Specifications as mentioned in PSO-PSV-011." 1" x 3/4" Dia <u>TEE EQUAL CS 1"dia (B.W)</u> Supply of Equal Tee, Threaded, ASTM A-105 , 3000# as per ANSI B16.11. 01" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	5		
118	<u>TEE EQUAL CS 3/4"dia (B.W)</u> Supply of Equal Tee, Threaded, ASTM A-105 , 3000# as per ANSI B16.11. 3/4" dia	<u>Zot (Inst.)</u>	<u>EA</u>	5		
119	<u>TEE EQUAL CS 1/2"dia (B.W)</u> Supply of Equal Tee, Threaded, ASTM A-105 , 3000# as per ANSI B16.11. 1/2" dia	<u>Zot (Inst.)</u>	<u>EA</u>	5		
120	<u>Miscellaneous Steel structure</u> "Supply of steel material Roof plates, Roof supporting structure (column, rafters, girders), Bottom plates, shell plates, Apurtenaces, railing, staircase, splash plates, as per inspection report, site requirement and inaccordance with relevant codes / standards/ best Engineering practises. Specifications: HR-235/A-36/SS400B,API 5L Gr. B/ ASTM A-53 GR.B ERW, ASTM A-234 Gr. WPB, ASME B16.5, ASTM A-105 or equivalent / superior as per PSO's approval, Suitable size as per site requirement. " Note: Quantities for supply would be mutually decided by PSO and Contractor before proceeding with the procurement	<u>Zot (Inst.)</u>	<u>KG</u>	77,000.00 0		
121	<u>Miscellaneous Steel structure</u>	<u>Zot (Inst.)</u>	<u>KG</u>			



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	"Supply of manholes, tank nozzles/appurtenances, flanges, stud bolts, nut bolts, washers, pipe & pipe fittings (all internal pipes, water draw off, dip, water drain channel on tank shell with drains etc.) as per inspection report, site requirement and inaccordance with relevant codes / standards/ best Engineering practises. Specifications: HR-235/A-36/SS400B,API 5L Gr. B/ ASTM A-53 GR.B ERW, ASTM A-234 Gr. WPB, ASME B16.5, ASTM A-105 or equivalent / superior as per PSO's approval, Suitable size as per site requirement. " Note: Quantities for supply would be mutually decided by PSO and Contractor before proceeding with the procurement			6,000.000		
122	<u>TEE EQUAL CS 6"dia (B.W)</u> Equal Tee Equal Tee B.W ASTM A - 234 Gr WPB as per ANSI 16.9 06" dia Sch 40	<u>Zot (Inst.)</u>	<u>EA</u>	2		
123	<u>TEE EQUAL CS 4"dia (B.W)</u> Equal Tee Equal Tee B.W ASTM A - 234 Gr WPB as per ANSI 16.9 04" dia Sch 40	<u>Zot (Inst.)</u>	<u>EA</u>	2		
124	<u>CHECK VALVE 24"dia</u> Check Valves Specifications as mentioned in PSO-CV-010: 24" Dia	<u>Zot (Inst.)</u>	<u>EA</u>	1		
125	<u>GATE VALVE 2"dia</u> Gate Valves Specifications as mentioned in PSO-GV-007:	<u>Zot (Inst.)</u>	<u>EA</u>	1		

