

## REQUEST FOR QUOTATION LOCAL PURCHASE SECTION

**RFQ NUMBER** : 2412400397  
**DATE** : 21.03.2024  
**REQ No** : 1032401164  
**REQ TITLE** : Complete Overhauling & Coatin  
**DELIVERY LOCATION**  
**CLOSING DATE** : 29.03.2024  
**CLOSING TIME** : 10:00:00

SL NO	ITEM CODE	SERVICE ID	DESCRIPTION	QTY	UOM	BRAND/ORIGIN	WARRANTY	UNIT PRICE	TOTAL PRICE
1		ITEM-00001	COMPLETE OVERHAULING & COATING OF NEEDLE VALVE DN450 PN10 FORDIP2 PUMPING STATION.PLEASE CONTACT MR. SUHAIL (050-4515989) FOR FURTHER CLARIFICATIONS.1.0#SCOPE OF WORKTHIS NEEDLE VALVE IS NOT WORKING PROPERLY FOR WHICH DEWA INTENDED TOOUTSOURCE THE REPAIRING JOB IN LOCAL REPUTED CONTRACTOR.#DETAILS OF THE NEEDLE VALVE:##MAKE: ###ERHARD.#NOMINAL DIAMETER: #DN450.#PRESSURE RATING:#PN10#SCOPE OF WORKSA.#COMPLETE DISMANTLE OF THE VALVE ASSEMBLY. REMOVAL OF THE STUCK SHAFTFROM THE CYLINDER. REPAIRING OF THE SHAFT ON THE KEY WAY PLACES ANDMANUFACTURING OF NEW KEYS (SS316L).B.#REPLACEMENT OF THE ALL DEFECTIVE SPARES LIKE-O-RINGS, RETAININGRINGS ETC.C.#REPLACEMENT OF DEFECTIVE SHAFT SLEEVE AND PISTON PIN (AS PERDISMANTLED SAMPLE)D.#AFTER REPAIRING, COMPLETE ASSEMBLY MUST BE DONE	1	SET				

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			<p>WITH SYNCHR ONIZATIONOF THE GEAR BOX TO THE SHAFT SO AS TO VERIFY THE SMOOTH ROTATION OF THESHAFT WITH CYLINDER.E.#FUNCTIONAL TEST OF THE NEEDLE VALVE TO THE CONTRACTOR PREMISES.F.#OPERATIONAL TEST OF THE NEEDLE VALVE WITH ACTUATOR INSTALLED AT DEWAPIPELINE.2.0#PRIOR TO SUBMI SSION OF QUOTATION, THE FOLLOWING SHALL BE DETERMINEDCAREFULLY:A.#THE CONTRACTOR SHALL VISIT THE SITE AND MAKE HIMSELF FULLY FAMILIA RWITH THE WORK SCOPES, COMPLEXITIES, ETC., BEFORE SUBMITTING THEQUOTATION.B.#DEWA WILL NOT ACCEPT ANY CLAIM FOR EXTRAS BEYOND THE OR DER RATES /PRICES DURING AND AFTER THE EXECUTION OF WORK ORDERED.C.# THE CONTRACTOR SHOULD SUBMIT THE TIME SCHEDULE /BAR CHARTINDICA TING EACH ACTIVITY.D.#ON COMPLETION OF THE WORK, THE INSPECTION CHECKLIST OF</p>						

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			QUALITYPROCEDURES, WHEREVER APPLICABLE SHOULD BE FILLED IN AND SUBMITTED.4.0#TAKE OVERON COMPLETION OF ALL WORK WITHIN THE SCOPE OF THE CONTRACT, FORACCEPTANCE OF THE MAINTENANCE WORK, CO NTRACTOR SHALL NOTIFY DEWA INWRITING. A CERTIFICATE OF COMPLETION WILL BE ISSUED BY DEWA ON FINALINSPECTION ONLY WHEN THE CONTRACT W ORK IS DEEMED TO HAVE BEEN TAKEN OVERBY DEWA AFTER NECESSARY CONDITION MONITORING CHECKS WHEREVER & WHENEVERREQUIRED.5.0#WARRANTYA.# ALL THE WORK CARRIED OUT SHALL CARRY A WARRANTY FOR 8000 HOURS OFOPERATION OR 1 YEAR WHICHEVER IS EARLIER.B.#THE GUARANTEE WILL TAKE EFFECT FROM THE DATE OF TAKEOVER BY DEWA OFTHE JOB CARRIED OUT BY THE CONTRACTOR.C.#WHEN A DEFECT IS NOTICED DURING THE PERIOD OF W ARRANTY, THECONTRACTOR MUST RECTIFY THE						

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			DEFECT WITHIN A REASONABLE AMOUNT OF TIMEFIXED BY DEWA WITH NO CLAIM OR COMPENSATION.6.0#DOC UMENTS:#ON SATISFACTORY COMPLETION OF THE WORK & HANDING OVER, THE CONTRACTORSHOULD SUBMIT THE FOLLOWING TO DEWA. ##A.#INSPECTION REPORT.B.#REPAIR/ACTION REPORT.C.#METHOD STATEMENT OF THE REPAIRING WORKS.D.#PHOTOS OF PARTS OF THE HYDRAULIC CYLINDER BEFORE/AFTER REPAIRING.E.#ALL TEST REPORTS.SPECIFICATION FOR INTERNAL COATING OF VALVEGENERAL THESE VALVES ARE USED IN WATER BOOSTER PUMPING STATIONS. THE FLUIDHANDLED BY THESE PUMPS/VALVES IS POTABLE WATER OF MAXIMUM TEMPERATURE UPTO 50 0C. NORMAL LY THE WATER IS CLEAN BUT SOME TIME IT IS NOTICED TOHAVE SAND AND SOLIDS IN STREAM FROM PIPELINE.1#2#SCOPE OF WORK3#4#COLLECTION & T						

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			<p>RANSPORTATIONTHE CONTRACTOR SHALL COLLECT THE NEEDLE VALVE THROUGH SUITABLEPICKUP/CRANE MOUNTED TRUCK FROM EMS WORKSHOP AT AWEER. TH E CONTRACTORPICKUP SHALL HAVE SUITABLE AND SAFE LIFTING SLING/BELT OF SUFFICIENTLOAD CAPACITY. LOADING AND UNLOADING OF THE NEEDLE V ALVE TO BE CARRIEDOUT BY CONTRACTOR.4.1#SURFACE PREPARATIONBEFORE APPLYING ANY COATING, THE CONTRACTOR HAS TO DO NECESSARY SURFACEP REPARATION BY SAND OR GRIT BLASTING OR ANY OTHER SUITABLE MECHANICALSYSTEM TO REMOVE ALL RUST &amp; LOOSE MATERIALS. AFTER SAND BLASTING THECONTRACTOR HAS TO INTIMATE DEWA ENGINEER FOR INSPECTION OF THE SURFACEBEFORE APPLYING ANY COATING. DURING SANDBLASTING IT IS REQ UIRED TOPROTECT ALL MACHINED SURFACE, SEAT AREA AND ALL OTHER CRITICAL AREAS</p>						

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			ANDPARTS FROM DAMAGE BY SUITABLE METHOD.BUILDUP/ FILLIN G OF ERRODED/PITTED SURFACE THE SUPPLIER HAS TO BUILDUP ERODED SURFACE BY SUITABLE COMPOSITEMATERIALS UP TO ORIGINAL LEVEL BE FORE APPLYING ANY COATING. THECOMPOSITE MATERIAL SHALL HAVE THE FOLLOWING PROPERTIES:.#THE CURRIED COMPOSITE MUST BE SUITABLE FOR CO NTINUOUS IMMERSION INTHE FOLLOWING CHEMICALS AT 21 0C (70 0F): FERRIC CHLORIDE, 10%HYDROCHLORIC ACID, 10% SULFURIC ACID, 5% NITRIC A CID, 50% SODIUMHYDROXIDE AND 28% AMMONIUM HYDROXIDE.#THE COMPOSITE SHALL SHOW NO BLISTERS WHEN EXPOSED TO DE-MINERALIZEDWATER IN AN ASTM C 868 CORROSION TEST AT 43 0C (110 0 F) FOR A MINIMUMPERIOD OF 6 MONTHS.#ADHESION OF THE COMPOSITE PER ASTM D1002 SHALL BE GR EATER THAN 183KG/CM2 (2,600 PSI)#THE CURVED COMPOSITE MUST MEET OR EXCEED THE						

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			FOLLOWING PHYSICALREQUIREMENTS:COMPRESSIVE STRENGTH ( ASTM D 695) 914 KG/CM2 (13,000 PSI).TENSILE STRENGTH (ASTM D 638) 431 KG/CM2 (6,136 PSI)FLEXURAL STRENGTH (ASTM D 790) 620 KG/CM2 ( 8,800 PSI)FLEXURAL MODULUS (ASTM D 790) 6.9 X 104 KG/CM2 (9.87 X 105PSI).DURING THE PHASES OF SURFACE PREPARATION, APPLICATION, A ND CURING,ENVIRONMENTAL CONDITIONS WILL REQUIRE CAREFUL MONITORING AND MAY REQUIRESUPPLEMENTAL CONTROLS. CRITICAL AREAS OF CONCERN A RE RELATIVE HUMIDITY,DEW POINT, SURFACE TEMPERATURE OF THE SUBSTRATE, AND AIR PURITY.CONTRACTOR SHALL CARRYOUT ALL THE PROCEDURES IN A CONTROLLED ENVIRONMENTIN ACCORDANCE WITH THE LATEST STANDARDS AND PROCEDURES.FINAL INTERNAL COATINGAFTER SURFACE PREPARATION AND FILLING UP THE ERODED SURFACE IT ISREQUIRED						

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			<p>TO APPLY THE CERAMIC REINFORCED COMPOSITE MATERIALS FOR FINALCOATING. THE COMPOSITE COAT</p> <p>ING MATERIALS SHALL HAVE</p> <p>FOLLOWINGPROPERTIES:.#THE CURED COMPOSITE MUST BE SUITABLE FOR CONTINUOUS IMMERSION IN THEFOLLOWING CHEMICALS AT 210C(700F): FERRIC CHLORIDE, 10% HYDROCHLORICACID, 10% SULFURIC ACID, 5% NITRIC ACID, 50% SODIUM HYDROXIDE AND 28%AMMONIUM HYD</p> <p>ROXIDE.#THE COMPOSITE MUST EXCEED 10,000 HRS IN AN ASTM B 117 SALT FOG TEST(SCORED) WITH NO SIGNS OF UNDER FILM CORROSION AT THE SC</p> <p>ORE.#THE COMPOSITE MUST PASS ASTM G 8 CATHODIC DISBANDMENT TEST FOR NOTLESS THAN 60 DAYS.#THE COMPOSITE SHALL SHOW NO BLISTERS WHE</p> <p>N EXPOSED TO DEMINERALIZEDWATER IN AN ASTM C 868 CORROCELL TEST AT 430C (1100F) FOR A MINIMUMPERIOD OF 6 MONTHS.#ADHESION OF THE CO</p>						



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			MPOSITE PER ASTM D 4541 SHALL BE GREATER THAN 140KG/CM2 (2,000 PSI).#THE LINEAR CO-EFFICIENT OF THERMAL EXPANSION (ASTM C 531) SHAL L NOTEXCEED 5.0 X 10-5 CM/CM/0C (2.8 X 10-5 IN/IN/0F).#THICKNESS OF COATING 800-1000 MICRONS.#SURFACE FINISHING OF THE COATING SHAL L BE SMOOTH GLASS SURFACEFINISHED AND ABRASION RESISTANT.#THE CURED COMPOSITE MUST MEET OR EXCEED THE FOLLOWING PHYSICALREQUIREMENT S: COMPRESSIVE STRENGTH: (ASTM D 695) 844 KG/CM2 (12,000 PSI)TENSILE STRENGTH: (ASTM D 638) 240 KG/CM2 (3,420 PSI)FLEX URAL STRENGTH: (ASTM D 790) 562 KG/CM2 (8,000PSI).#THE COMPOSITE SHALL BE AUTHORIZED FOR USDA APPLICATION FOR INCIDENTALFOOD CONTAC T.#THE COMPOSITE IS REQUIRED TO HAVE POTABLE WATER CERTIFICATION FROMINTERNATIONAL/LOCAL AUTHORITIES, WRAS (WATER REGULATORY ADVISO						

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			<p>RYSOCIETY).EXTERNAL COATING EPOXY POWDER COATING IN BLUE COLOUR AT LEAST 300-400 MICRONTHICK FOR THE VALVES. ALL NECESSARY S</p> <p>URFACES PREPARATIONS TO BE DONEBEFORE COATING.WARRANTY THE SUPPLIER HAS TO PROVIDE AT LEAST 24 MONTHS OF SERVICEWARRANTY AGA</p> <p>INST ANY DAMAGE/ DEFECTS FOR THE COATING. IF THE COATING ISFOUND TO FAIL WITHIN THIS PERIOD THE SUPPLIER HAS TO RECOAT THEEQUIPMENT</p> <p>AT FREE OF CHARGE TO DEWA.METHOD STATEMENTTHE SUPPLIER HAS TO PROVIDE METHOD STATEMENT OF COATING AND MATERIALDETAILS ALONG WITH THE</p> <p>IR OFFER FOR TECHNICAL EVALUATION AND APPROVAL.INSPECTION AT SITEBEFORE DELIVERY OF COATED VALVES, THE COATING WORKS TO BE INSPECTED</p> <p>BYDEWA ENGINEER AT SUPPLIER WORKSHOP FOR FINAL ACCEPTANCE. CONTRACTORSHALL PROVIDE WITH ALL REQUIRED NECESSARY</p>						

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			INSPECTION TOOLS AS REQUIRED ON SITE. REPORTS & DOCUMENTS DURING DELIVERY THE FOLLOWING DOCUMENTS TO BE SUBMITTED. 1. #MATERIAL DATA SHEET. 2. #PHOTO OF NEEDLE VALVE BEFORE AND AFTER COATING. 3. #WARAS CERTIFICATE FOR COATING						
2		ITEM-00002	REPAIRING & INSTALLATION OF SEAT RING OF NEEDLE VALVE DN450 PN10 FORDIP2 PUMPING STATION. PLEASE CONTACT MR. SUHAIL (050-4515989) FOR FURTHER CLARIFICATIONS. SCOPE OF WORKS: 1. REPAIRING & INSTALLATION OF SEAT RING (RUBBER) 2. ASSEMBLY WITH OVERHAULED NEEDLE VALVE & TESTING	1	EA				
3		ITEM-00003	REPAIRING & INSTALLATION OF BRONZE PLATE GUIDE RAIL OF NEEDLE VALVE DN450 PN10 FORDIP2 PUMPING STATION. PLEASE CONTACT MR. SUHAIL (050-4515989) FOR FURTHER CLARIFICATIONS. SCOPE OF WORKS: 1. REPAIRING & INSTALLATION OF BRONZE PLATE GUIDE RAIL 2. ASSEMBLY WITH	1	SET				

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			OVERHAULE D NEEDLE VALVE & TESTING						
4		ITEM-00004	REPAIRING & INSTALLATION OF SS CONNECTING PIN WITH LOCK NUT & WASHER OFNEEDLE VALVE DN450 PN10 FORDIP2 PUMPING STATION.PLEASE CONTAC T MR. SUHAIL (050-4515989) FOR FURTHER CLARIFICATIONS.SCOPE OF WORKS:1. REPAIRING & INSTALLATION OF SS CONNECTING PIN WITH LOCK NUT & WASHER2. ASSEMBLY WITH OVERHAULED NEEDLE VALVE & TESTING	1	SET				
5		ITEM-00005	REPAIRING & INSTALLATION OF CONNECTING PIN BRONZE BUSH OF NEEDLE VALVEDN450 PN10 FORDIP2 PUMPING STATION.PLEASE CONTACT MR. SUHAIL ( 050-4515989) FOR FURTHER CLARIFICATIONS.SCOPE OF WORKS:1. REPAIRING & INSTALLATION OF SS CONNECTING PIN BRONZE BUSH WASHER2. ASSEMBL Y WITH OVERHAULED NEEDLE VALVE & TESTING	1	SET				
6		ITEM-00006	REPAIRING & INSTALLATION OF DRIVE SHAFT BRONZE BUSH OF NEEDLE VALVEDN450 PN10	1	SET				

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			FORDIP2 PUMPING STATION.PLEASE CONTACT MR. SUHAIL (050 -4515989) FOR FURTHER CLARIFICATIONS.SCOPE OF WORKS:1. REPAIRING & INSTALLATION OF DRIVE SHAFT BRONZE BUSH2. ASSEMBLY WITH OVERHAULE D NEEDLE VALVE & TESTING						

TOTAL AMOUNT IN WORDS:

TOTAL AMOUNT:

### **SPECIAL NOTES / INSTRUCTIONS:**

Complete Overhauling <(>&<)> Coating of Needle Valve DN450 PN10 for DIP2 pumping station.

### **STANDARD TERMS & CONDITIONS**

- Prices should be 'DDP' delivery duty paid at DEWA stores.
- Quotation to be submitted only in local currency U.A.E Dirhams
- DEWA Standard payment terms is '30 days credit' from the date of acceptance of material
- No DEWA staff or his or her relatives up to third degree should have ownership or partnership in your company, and your participation in DEWA tenders / RFQs should not constitute a Conflict or perceived Conflict of Interest.
- The offered product and/ or services in the Quotation, shall be conforming and in accordance with DEWA Energy Management Policy & EnMS Manual.

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**SUPPLIER'S REMARKS :**

**SUPPLIER'S SIGNATURE AND STAMP**