

## REQUEST FOR QUOTATION LOCAL PURCHASE SECTION

**RFQ NUMBER** : 2332401248  
**DATE** : 24.05.2024  
**REQ No** : 1032402191  
**REQ TITLE** : Complete Overhauling of Boost  
**DELIVERY LOCATION**  
**CLOSING DATE** : 30.05.2024  
**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 OF BOOSTER PUMP FOR NAJMA PH3 WEIR PUMP.PUMP DETAILS: MAKE-WEIR, MODEL-SDA 400/ 500B (HORIZONTAL), CAPACITY-52 5LIT./SEC. EQUIPMENT NUMBER 50270341 PUMP - M0722PLEASE CONTACT MR. NOOR (052-9172523) FOR FURTHER CLARIFICATION.TECHNICAL SPECIFICATIONS1.0#INTRODUCTIONDUBAI ELECTRICITY & WATER AUTHORITY (DEWA) OWNS AND OPERATES POTABLEWATER BOOSTER PUMPING STATIONS AT VARIOUS LOCATIONS OF DUBAI. THESEBOOSTER PUMPING STATIONS ALONG WITH THEIR ACCESSORIES ARE MAINTAINEDREGULARLY AND TAKEN OUT OF SERVICE IN A PLANNED SEQUENCE MOSTLY INWINTER TO CARRY OUT THE PREVENTIVE MAINTENANCE, INSPECTIONS &OVERHAULING ETC.2.0#SCOPE OF WORKTHE SCOPE OF WORK FOR THE OVERHAUL OF BOOSTER PUMPS AND THEIRACCESSORIES OF BOOSTER PUMPING STATION.#A)#THE CONTRACTOR HAS TO TAKE THE	1	SET				

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			<p>PUMP ASSE MBLY FROM DEWA SITE TO THEIRWORKSHOP &amp; VICE VERSA. DEWA SHALL NOT PROVIDE ANY TRANSPORT TO SHIFT THESAME. FOR LOADING &amp; UNLOADING C ONTRACTOR CAN USE DEWA OVERHEAD CRANEAVAILABLE AT PUMPING STATIONS IN COORDINATION WITH THE DEWAREPRESENTATIVES.B)#MECHANICAL SEAL R EPLACEMENT, COUPLING BUSH RENEWAL &amp; GLAND PACKINGRENEWAL, BEARING REPLACEMENT AS REQUIRED.C)#OVERHAULING OF PUMP (SEE ANNEXURE I &amp; I I)D)#PAINTING OF PUMP EXTERNALLYE)#RECTIFICATION OF THE PUMP FOR ANY COMPLAINT ROSE AFTER INSTALLATION.F)#IF ANY PART IS FOUND DEFEC TIVE, THE CONTRACTOR HAS TO REPAIR/REPLACETHE SAME. AVAILABLE SPARE SHALL BE SUPPLIED BY DEWA. IF ANY SPARE IS NOTAVAILABLE WITH DEW A THE CONTRACTOR HAS TO ARRANGE THE SAME. ADDITIONALCOST OF SPARE TO BE SUBMITTED TO</p>						

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			<p>DEWA FOR APPROVAL BEFORE PLACING THE ORDER.3.0#P PRIOR TO SUBMISSION OF QUOTATION, THE FOLLOWING SHALL BE DETERMINED CAREFULLY: A)# THE CONTRACTOR SHALL VISIT THE SITE AND MAKE HIMSELF FULLY FAMILIAR WITH THE WORK SCOPE, PLANT ACCESS FACILITIES, COMPLEXITIES, ETC., BEFORE SUBMITTING THE QUOTATION. B)# DEWA WILL NOT ACCEPT ANY CLAIM FOR EXTRAS BEYOND THE ORDER RATES / PRICES DURING AND AFTER THE EXECUTION OF WORK ORDERED. C)# THE CONTRACTOR WILL BE PROVIDED WITH THE EQUIPMENT SHUTDOWN PROGRAM IN COORDINATION WITH OPERATION &amp; MAINTENANCE DEPARTMENT OF WATER DIVISION. D)# THE CONTRACTOR SHOULD SUBMIT THE TIME SCHEDULE / BAR CHART INDICATING EACH ACTIVITY. E)# ON COMPLETION OF THE WORK, THE INSPECTION CHECKLIST OF QUALITY PROCEDURES, WHEREVER APPLICABLE SHOULD</p>						

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			<p>BE FILLED IN AND SUBMITTED.F)#SITE SUPERVISION, CO-ORDINATION OF FIELD ACTIVITIES, SUPPLY OFR EQUIRED TECHNICIANS, TOOLS, EQUIPMENTS, TACKLES ETC. REQUIRED FOREXECUTION OF THE CONTRACT WORKS SHALL BE SUITABLY CONSIDERED.4.0#TA</p> <p>KE OVERON COMPLETION OF ALL WORK WITHIN THE SCOPE OF THE CONTRACT, FORACCEPTANCE OF THE MAINTENANCE WORK, CONTRACTOR SHALL NOTIFY DE</p> <p>WA INWRITING. A CERTIFICATE OF COMPLETION WILL BE ISSUED BY DEWA ON FINALINSPECTION ONLY WHEN THE CONTRACT WORK IS DEEMED TO HAVE BE</p> <p>EN TAKEN OVERBY DEWA AFTER NECESSARY CONDITION MONITORING CHECKS WHEREVER &amp; WHENEVERREQUIRED.5.0#WARRANTYA)#ALL THE WORK CARRIED OUT</p> <p>SHALL CARRY A WARRANTY FOR 8000 HOURS OFOPERATION OR 1 YEAR WHICHEVER IS EARLIER.B)#THE GUARANTEE WILL TAKE EFFECT FROM THE DATE OF</p>						

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			<p>TAKEOVER BY DEWA OF THE JOB CARRIED OUT BY THE CONTRACTOR.C)#WHEN A DEFECT IS NOTICED DURING THE PERIOD OF WARRANTY, THE CONTRACTOR MUST RECTIFY THE DEFECT WITHIN A REASONABLE AMOUNT OF TIME FIXED BY DEWA WITH NO CLAIM OR COMPENSATION.6.0#DOCUMENTS:#ON SATISFACTORY COMPLETION OF THE WORK &amp; HANDING OVER, THE CONTRACTOR SHOULD SUBMIT THE FOLLOWING TO DEWA.</p> <p>##A)#INSPECTION REPORT.B)#OVERHAUL REPORT.C)#JOB COMPLETION REPORT FOR JOBS OTHER THAN ROUTINE INSPECTION &amp; OVERHAULSD)##AS-FITTED# BILL OF MATERIALS FOR CONSUMPTION OF SPARESE)#REQUISITION FOR PLANNING OF SPARES BY DEWA BASED ON CURRENT CONDITION OF THE EQUIPMENT FOR WHICH MAINTENANCE WORK WAS TAKEN UP.ANNEXURE # IDetail SCOPE OF WORK FOR OVERHAUL THE BOOSTER PUMP OF PUMPING</p>						

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			<p>STATIONS.L.NO#ACTIVITY#REMARKS#01#DISMANTLING OF THE PUMP#DISMANTLING OF THE PUMP AS PER DEWA ENGINEER#S INSTRUCTION####PUMP SHALL BE REMOVED AS PER SEQUENCE WITH SKILLED WORKMANSHIP &amp;CARE.#02#OVERHAULING OF PUMP#THE CONTRACTOR SHALL DISMANTLE THE COMPLETE ROTATING ASSEMBLY AT THEIR WORKSHOP AND RECORD ALL FINDINGS IN A TRACKSHEET WITH PHOTOGRAPHS OF DETERIORATED COMPONENTS.###THE CONTRACTOR HAS TO CHECK FOR SHAFT STRAIGHTNESS AND IDENTIFY WORN-OUT AREAS IF ANY. RECONDITIONING OF THE SHAFT SHALL BE CARRIED OUT IN COMPLIANCE WITH THE LATEST STANDARDS &amp; PROCEDURES. ###THE CONTRACTOR HAS TO CHECK THE IMPELLER THOROUGHLY FOR ANY RECONDITIONING REQUIRED. ###BEARING CONDITION TO BE CHECKED &amp; REPLACE THE BEARINGS IF REQUIRED.###MECHANICAL SEAL / GLAND SLEEVE CONDITION TO BE CHECKED</p>						

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			<p>&amp; TO BE REPLACED IF REQUIRED.###WEAR RINGS DIMENSIONS TO BE CHECKED FOR CLEARANCE &amp; TO BE REPLACED IF REQUIRED.###IF ANY PART IS FOUND DEFECTIVE, THE CONTRACTOR HAS TO REPAIR/REPLACE THE SAME. AVAILABLE SPARE SHALL BE SUPPLIED BY DEWA. IF ANY SPARE IS NOT AVAILABLE WITH DEWA THE CONTRACTOR HAS TO ARRANGE THE SAME. ADDITIONAL COST OF SPARE TO BE SUBMITTED TO DEWA FOR APPROVAL BEFORE PLACING THE ORDER.###PUMP CASING SHALL BE CLEANED &amp; INSPECTED FOR ANY DAMAGES. IF REQUIRED DAMAGE SURFACE TO BE REQUIRED BY SANDBLASTING &amp; COATING WITH FOOD GRADE EPOXY.#03#ASSEMBLY OF THE EQUIPMENT#A</p> <p>ASSEMBLY OF THE EQUIPMENT TO BE CARRIED OUT AS PER STANDARD PROCEDURE &amp; MAINTAIN THE FIT &amp; CLEARANCE AS PER MANUAL.</p> <p>###DYNAMICALLY BALANCE THE ROTOR ASSEMBLY AS PER ISO1940/1</p>						

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			<p>BALANCEQUALITY GRADE G 2.5/G1.0 WHEREVER POSSIBLE OR CHECK THE BALANCING OF THEINDIVIDUAL IT</p> <p>EMS.###PREPARE THE RECORD FOR THE ACTIVITIES CARRIED OUT.###DEVIATION TO THE SET #VALUES# SHALL BE DECIDED BY DEWA.</p> <p>#ANNEXURE # IIDE</p> <p>TAIL SCOPE FOR MACHINING</p> <p>WORKSSL.NO#ACTIVITY#REMARKS#01#IMPELLER MACHINING WORKS#IMPELLER GRIT BLASTING &amp; NDT TO FIND OUTANY CRACKS</p> <p>EXIST###IMPELLER SKIMMING ON BOTH SIDES OF WEAR RING AREAS &amp; FIX NEW RINGAND</p> <p>SECURE#02#SHAFT MACHINING WORKS#SHAFT CHROME PLATING ON</p> <p>BEARING SEATING AREAS&amp; MACHINING###SHAFT CHROME PLATING ON MECHANICAL SEAL SEATING AREAS &amp; MACHINING###SHAFT WORN OUT PLACE METAL R</p> <p>EBUILDING &amp; MACHINING###SHAFT BEND STRAIGHTENING UP TO (4THOU) MAXIMUM</p> <p>BEND#03#BEARING HOUSING MACHINING WORKS#DE BEARING HOUSING BO</p>						



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			RE MACHINING & RESLEEING####NDE BEARING HOUSING BORE MACHINING & RESLEEING#7.0#MACHINING WORKS: ALL THE MACHINING WORKS SHALL BE CARRIED OUT IN COMPLIANCE WITH THE LATEST STANDARDS & PROCEDURES. PRIOR APPROVAL SHALL BE TAKEN FROM DEWA ENGINEER, BEFORE CARRYING OUT ANY KIND OF MACHINING WORKS.						
2		ITEM-00002	MACHINING ON CASE WEAR RINGS OF BOOSTER PUMP OF NAJMA PH3 WEIR PUMPPLEASE CONTACT MR. NOOR (04-3229439) FOR FURTHER CLARIFICATIONSS COPE OF WORKS:1. MACHINING ON THE CASE WEAR RINGS (UP TO 2/3 MM) TO FIT WITH PUMPCASING.2. ASSEMBLY WITH PUMP ROTOR & TESTING	2	EA				
3		ITEM-00003	MACHINING ON IMPELLER WEAR RINGS OF BOOSTER PUMP OF NAJMA PH3 WEIR PUMPPLEASE CONTACT MR. NOOR (04-3229439) FOR FURTHER CLARIFICATI ONSSCOPE OF WORKS:1. MACHINING ON THE PUMP IMPELLER WEAR RINGS (UP TO 2/3 MM) TO	2	EA				

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			FIT WITHPUMP CASING.2. ASSEMBLY WITH PUMP ROTOR & T ESTING						
4		ITEM-00004	MACHINING ON PUMP SHAFT SLEEVE OF BOOSTER PUMP OF NAJMA PH3 WEIR PUMPPLEASE CONTACT MR. NOOR (04-3229439) FOR FURTHER CLARIFICATIONS SCOPE OF WORKS:1. MACHINING ON THE PUMP SHAFT SLEEVE TO FIT WITH PUMP-ROTOR SHAFT2. ASSEMBLY WITH PUMP ROTOR & TESTING	2	EA				
5		ITEM-00005	MACHINING ON SHAFT OF BOOSTER PUMP OF NAJMA PH3 WEIR PUMPPLEASE CONTACT MR. NOOR (04-3229439) FOR FURTHER CLARIFICATIONSSCOPE OF WO RKS:1. PUMP SHAFT DE & NDE SIDE M/SEAL AND BEARING AREAS REBUILDING ANDMACHINING2. ASSEMBLY WITH PUMP ROTOR & TESTING	1	SET				
6		ITEM-00006	MACHINING ON SHAFT OF BOOSTER PUMP OF NAJMA PH3 WEIR PUMPPLEASE CONTACT MR. NOOR (04-3229439) FOR FURTHER CLARIFICATIONSSCOPE OF WO RKS:1. PUMP MECHANICAL SEAL COOLING LINE NEW FABRICATION AND MODIFICATION ASPER	1	SET				

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			PUMP REQUIREMENTS2. ASSEMBLY WITH PUMP ROTOR & TESTING						
7		ITEM-00007	PUMP CASING MACHINING BY LINE BORING OF BOOSTER PUMP OF NAJMA PH3 WEIRPUMPLEASE CONTACT MR. NOOR (04-3229439) FOR FURTHER CLARIFICATIONSCOPE OF WORKS:1. PUMP CASING MACHINING ON CASE WEAR RING & M/SEAL AREAS BY LINE BORING2. ASSEMBLY WITH PUMP ROTOR & TESTING	1	SET				
8		ITEM-00008	PUMP CASING INTERNAL & EXTERNAL COATING OF BOOSTER PUMP OF NAJMA PH3WEIR PUMPLEASE CONTACT MR. NOOR (04-3229439) FOR FURTHER CLARIFICATIONSSURFACE PREPARATIONBEFORE APPLYING ANY COATING, THE CONTRACTOR HAS TO DO NECESSARY SURFACEPREPARATION BY SAND OR GRIT BLASTING OR ANY OTHER SUITABLE MECHANICALSYSTEM TO REMOVE ALL RUST & LOOSE MATERIALS. AFTER SAND BLASTING THECONTRACTOR HAS TO INTIMATE	1	SET				

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			<p>DEWA ENGINEER FOR INSPECTION OF THE SURFACE BEFORE APPLYING ANY COATING. DURING SANDBLASTING IT IS REQUIRED TO PROTECT ALL MACHINED SURFACE, SEAT AREA AND ALL OTHER CRITICAL AREAS AND PARTS FROM DAMAGE BY SUITABLE METHOD. BUILDUP/ FILLING OF ERODED/PITTED SURFACE</p> <p>THE SUPPLIER HAS TO BUILDUP ERODED SURFACE BY SUITABLE COMPOSITE MATERIALS UP TO ORIGINAL LEVEL BEFORE APPLYING ANY COATING. THE COMPOSITE MATERIAL SHALL HAVE THE FOLLOWING PROPERTIES: #THE CURRIED COMPOSITE MUST BE SUITABLE FOR CONTINUOUS IMMERSION IN THE FOLLOWING CHEMICALS AT 21 0C (70 0F): FERRIC CHLORIDE, 10% HYDROCHLORIC ACID, 10% SULFURIC ACID, 5% NITRIC ACID, 50% SODIUM HYDROXIDE AND 2 8% AMMONIUM HYDROXIDE. #THE COMPOSITE SHALL SHOW NO BLISTERS WHEN EXPOSED TO DE-MINERALIZED WATER IN AN ASTM C 868</p>						

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			CORROSION TEST AT 43 0C (110 0 F) FOR A MINIMUMPERIOD OF 6 MONTHS.#ADHESION OF THE COMPOSITE PER ASTM D1002 SHALL BE GREATER THAN 183KG/CM2 (2,600 PS I).#THE CURVED COMPOSITE MUST MEET OR EXCEED THE 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, AND CURING,ENVIRONMENTAL CONDITIONS WILL REQUIRE CAREFUL MONITORING AND MAY REQUIRESUPPLEMENTAL CONTROLS. CRITICAL AREAS OF CONCERN ARE RELATIVE HUMIDITY,DEW POINT , SURFACE TEMPERATURE OF THE SUBSTRATE, AND AIR PURITY.CONTRACTOR SHALL CARRYOUT ALL THE PROCEDURES IN A CONTROLLED						

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			<p>ENVIRONMENTIN AC CORDANCE WITH THE LATEST STANDARDS AND PROCEDURES.FINAL INTERNAL COATINGAFTER SURFACE PREPARATION AND FILLING UP THE ERODED SURFACE IT ISREQUIRED TO APPLY THE CERAMIC REINFORCED COMPOSITE MATERIALS FOR FINALCOATING. THE COMPOSITE COATING MATERIALS SHALL HAVE FOLLO WINGPROPERTIES:.#THE CURED COMPOSITE MUST BE SUITABLE FOR CONTINUOUS IMMERSION IN THEFOLLOWING CHEMICALS AT 210C(700F): FERRIC CHLOR IDE, 10% HYDROCHLORICACID, 10% SULFURIC ACID, 5% NITRIC ACID, 50% SODIUM HYDROXIDE AND 28%AMMONIUM HYDROXIDE.#THE COMPOSITE MUST EX CEED 10,000 HRS IN AN ASTM B 117 SALT FOG TEST(SCORED) WITH NO SIGNS OF UNDER FILM CORROSION AT THE SCORE.#THE COMPOSITE MUST PASS ASTM G 8 CATHODIC DISBANDMENT TEST FOR NOTLESS THAN 60 DAYS.#THE COMPOSITE SHALL</p>						

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			<p>SHOW NO BLISTERS WHEN EXPOSED TO DEMINERALIZEDWATE R IN AN ASTM C 868 CORROCELL TEST AT 430C (1100F) FOR A MINIMUMPERIOD OF 6 MONTHS.#ADHESION OF THE COMPOSITE PER ASTM D 4541 SHALL BE GREATER THAN 140KG/CM2 (2,000 PSI).#THE LINEAR CO-EFFICIENT OF THERMAL EXPANSION (ASTM C 531) SHALL NOTEXCEED 5.0 X 10-5 CM/CM/0 C (2.8 X 10-5 IN/IN/0F).#THICKNESS OF COATING 800-1000 MICRONS.#SURFACE FINISHING OF THE COATING SHALL BE SMOOTH GLASS SURFACEFINIS HED AND ABRASION RESISTANT.#THE CURED COMPOSITE MUST MEET OR EXCEED THE FOLLOWING PHYSICALREQUIREMENTS: COMPRESSIVE STR ENGT: (ASTM D 695) 844 KG/CM2 (12,000 PSI)TENSILE STRENGTH: (ASTM D 638) 240 KG/CM2 (3,420 PSI)FLEXURAL STRENGTH: (ASTM D 790) 56 2 KG/CM2 (8,000PSI).#THE COMPOSITE SHALL BE AUTHORIZED FOR USDA APPLICATION FOR</p>						

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			<p>INCIDENTALFOOD CONTACT.#THE COMPOSITE IS REQUIRED TO HAVE POTABLE WATER CERTIFICATION FROMINTERNATIONAL/LOCAL AUTHORITIES, WRAS (WATER REGULATORY ADVISORYSOCIETY).EXTERNAL COATING EPOXY POWDER COATING IN BLUE COLOUR AT LEAST 300-400 MICRONTHICK FOR BOTH PUMPS AND VALVES. ALL NECESSARY SURFACES PREPARATION S TOBE DONE BEFORE COATING.WARRANTY THE SUPPLIER HAS TO PROVIDE AT LEAST 24 MONTHS OF SERVICEWARRANTY AGAINST ANY DAMAGE/ DE FECTS FOR THE COATING. IF THE COATING ISFOUND TO FAIL WITHIN THIS PERIOD THE SUPPLIER HAS TO RECOAT THEEQUIPMENT AT FREE OF CHARGE T O DEWA.METHOD STATEMENTTHE SUPPLIER HAS TO PROVIDE METHOD STATEMENT OF COATING AND MATERIALDETAILS ALONG WITH THEIR OFFER FOR TECHNICAL EVALUATION AND APPROVAL.INSPECTION AT</p>						



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			SITEBEFORE DELIVERY OF COATED PUMPS/VALVES, THE COATING WORKS TO BEINSPECTED BY DEWA ENGINEER AT SUPPLIER WORKSHOP FOR FINAL ACCEPTANCE. CONTRACTOR SHALL PROVIDE WITH ALL REQUIRED NECESSARY INSPECTION TOOLSAS REQUIRED ON SITE.REPORTS & DOCUMENTS DURING DELIVERY THE FOLLOWING DOCUMENTS TO BE SUBMITTED.1.#MATERIAL DATA SHEET.2.#PHOTO OF CASING BEFORE AND AFTER COATING.3.#WARAS CERTIFICATE FOR COATING MATERIALS.4.#ALL TEST REPORTS.						

TOTAL AMOUNT IN WORDS:

TOTAL AMOUNT:

### SPECIAL NOTES / INSTRUCTIONS:

Complete Overhauling of Booster pump for Najma Ph3 WEIR pump.

Pump Details: Make- WEIR, Model-SDA 400/ 500B (HORIZONTAL), Capacity- 525Lit./Sec. Equipment Number 50270341 PUMP - M0722

### STANDARD TERMS & CONDITIONS

MATERIAL AND OR SERVICE PROVIDED TO DEWA SHOULD PREFERABLY BE ENERGY EFFICIENT AND ENVIRONMENT FRIENDLY.

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- 1) Prices should be 'DDP' delivery duty paid at DEWA stores.
- 2) Quotation to be submitted only in local currency U.A.E Dirhams
- 3) DEWA Standard payment terms is '30 days credit' from the date of acceptance of material
- 4) 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.
- 5) The offered product and/ or services in the Quotation, shall be conforming and in accordance with DEWA Energy Management Policy & EnMS Manual.

**SUPPLIER'S REMARKS :**

**SUPPLIER'S SIGNATURE AND STAMP**