

REQUEST FOR QUOTATION LOCAL PURCHASE SECTION

RFQ NUMBER : 2332501989
DATE : 06.08.2025
REQ No : 1032503642
REQ TITLE : E'STATION, GT#1to5
DELIVERY LOCATION
CLOSING DATE : 12.08.2025
CLOSING TIME : 10:00:00

SL NO	ITEM CODE	SERVICE ID	DESCRIPTION	QTY	UOM	BRAND/ORIGIN	WARRANTY	UNIT PRICE	TOTAL PRICE
1		ITEM-00001	GTE#1TO5 PIPELINE INTEGRITY INSPECTION AND CERTIFICATION GAS TURBINESPIPING SYSTEMSTECHNICAL SPECIFICATION 1. INTRODUCTION:DEWA OPERATES A FLEET OF GAS TURBINES (GT) OF DIFFERENT MAKE AND MODELS.THESE GTS HAVE VARIOUS PIPING SYSTEMS AND PRESSURE VESSELS AS INTEGRA LPART OF GAS TURBINE PACKAGE. UAE LOCAL REGULATION EIAC #RQ-1B-004MANDATES INTEGRITY ASSESSMENT OF PIPING AND PRESSURE VESSELS DURIN G ITSSERVICE LIFE AT PERIODIC INTERVALS. DEWA FOLLOWS A STRINGENT 5-YEARSTANDARD PERIOD FOR INTEGRITY INSPECTION IRRESPECTIVE OF LOC ALREGULATIONSDEWA INTENDS TO APPOINT A COMPETENT INSPECTION AGENCY RECOGNIZED BYLOCAL AND INTERNATIONAL GOVERNMENT AGENCIES, WITH TH E CAPABILITY ANDEXTENSIVE EXPERIENCE TO CARRY OUT INTEGRITY ASSESSMENT (IA) ANDREMAINING LIFE ASSESSMENT (RLA) OF	1	EA				

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			<p>PRESSURE VESSELS AND PIPING SYSTEMS OF GT PACKAGE INCLUDING GT PROPER AND ITS AUXILIARY PACKAGES. THE EVALUATION IS TO ENSURE THE COMPLIANCE WITH LOCAL REGULATION EAC#RQ-1B-004 AND WITH INTERNATIONAL STANDARDS SUCH AS API 510, ASME B31.8S, API 580/581, API 571, B 31.3, B31.8, B31.4, API 579, API 1163, API-574, API-570 AND NACE AS APPLICABLE. 2. #PHYSICAL BOUNDARY: THE BOUNDARY LIMIT OF INTEGRITY INSPECTION WORKS WILL BE THE GT LIMITS OF VARIOUS MAIN AND AUXILIARY SYSTEMS AS PER THE PROCESS & INSTRUMENTATION DRAWINGS (P&IDs) ENCLOSED WITH THE BID. PHYSICAL BOUNDARY OF THE WORKS NEEDS TO BE CONFIRMED BY THE CONTRACTOR BASED ON THE SITE INSPECTION PRIOR TO SUBMISSION OF BID BASED ON THE P&ID PROVIDED. SOME PIPING WHICH ARE NOT INDICATED IN P&ID BUT ARE PART OF GAS</p>						

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			<p>TURBINE SYSTEM WITHIN GT ENCLOSURE SHALL BE AL</p> <p>SO CONSIDERED AS INCLUDED IN SCOPE. THE CONTRACTOR IS EXPECTED TO STUDY SITE AND OBTAIN REQUIRED CLARIFICATION ON SUCH PIPING PRIOR TO THE BIDDING. IT IS MANDATORY FOR THE BIDDERS TO VISIT THE SITE FOR PHYSICAL VERIFICATION OF THE SYSTEM BOUNDARIES COVERED UNDER THE SCOPE TO QUANTIFY THE VOLUME OF WORKS BEFORE SUBMITTING THEIR OFFER.</p> <p>3.#COMPONENTS COVERED: THE COMPONENTS TO BE INSPECTED UNDER GT MAIN & AUXILIARY SYSTEMS FOR INTEGRITY ASSESSMENT SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING:</p> <p>#PRESSURE VESSELS.#PIPING.#PIPE FITTING</p> <p>S.#VALVES.#SAFETY VALVES/PRESSURE RELIEF VALVES.#JOINTS.#FILTERS / STRAINERS</p> <p>VESSEL SCOPE OF WORK: THE SCOPE OF WORKS UNDER THIS CONTRACT IS TO CARRY OUT INTEGRITY ASSESSMENT</p>						

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			<p>OF GT PIPING AND PRESSURE VESSELS INCLUDING FUEL GAS SYSTEM,FUEL OIL SYSTEM, COOLING AND SEALING AIR SYSTEM, CLOSED COOLING WATERSYSTEM, LUBE OIL SYSTEM, HYDRAULIC SYSTEM, TRIP OIL SYSTEM, BLEEDHEATING SYSTEM, PULSE AIR SYSTEM, BLOW OFF SYSTEM, GT DRAIN SYSTEM, VENTSYSTEMS UP TO THE LAST ISOLATION VALVES, COOLING AND SEAL AIR SYSTEM,INSTRUMENT AIR SYSTEM, CO2 FIRE PROTECTION SYSTEM ETC AS PER THEAPPLICABLE P&IDS ATTACHED WITH TENDER DOCUMENTS. PLEASE NOTE THAT THISSPECIFICATION IS COMMON FOR ALL GAS TURBINES OPERATING IN DEWA ANDBIDDER IS EXPECTED TO BE FAMILIAR WITH GAS TURBINES AND ITS DESIGNS OFDIFFERENT MAKE AND MODELS FROM OEMS LIKE GENERAL ELECTRIC, SIEMENS,MITSUBISHI, ANSALDO ETC.THE MAIN OBJECTIVE OF THE WORKS UNDER THE SPECIFICATION</p>						

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			<p>IS INTEGRITYASSESSMENT AND REMAINING LIFE ASSESSMENT OF PRESSURE VESSELS / PIPING /COMPONENTS IN COMPLIANCE TO EIAC #RQ-1B-004 AND</p> <p>IN LINE WITH ASMEB31.8S, API 580/581, API 571 ,API 570, B31.1, 31.3, B31.8, B31.4, API579, API 1163, API -574,API-570 AND NACE AS AP</p> <p>PLICABLE AND / OR AS PERTHE ORIGINAL CODE OF CONSTRUCTION WITHOUT ANY AMBIGUITY. THE GTS COVEREDUNDER THE SCOPE OF THIS SPECIFICATIO</p> <p>N ARE:1.#GTE#12.#GTE#23.#GTE#34.#GTE#45. GTE#5THE PROCESS OF ASSESSMENT SHALL FOLLOW STANDARD INTERNATIONAL PROCEDURESAS APPLICABL</p> <p>E FOR SIMILAR WORKS AND SHALL INCLUDE BUT NOT LIMITED TO THEFOLLOWING.PHASE-1, PRELIMINARY INTEGRITY MANAGEMENT PLAN-#COLLECTION OF THE DESIGN AND OPERATION AND MAINTENANCE MANUALS,DRAWINGS AND RECORDS AS REQUIRED FOR THE ASSESSMENT.-#DESKTOP STUDY OF VARIOUS GAS</p>						

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			<p>TURBINE SYSTEMS IN TERMS OF DESIGN, OPERATION AND MAINTENANCE PRACTICES.-#SITE VISITS AS NECESSARY TO FAMILIARIZE THE SYSTEM AND ITS BOUNDARY LIMITS.-#INTERVIEW WITH O&M STAFF AS NECESSARY.-#DEVELOP A PRELIMINARY INTEGRITY MANAGEMENT PLAN (IMP) FOR EACH TYPICAL GAS TURBINE CONSIDERING POTENTIAL THREATS AND FAILURE MECHANISMS AS PER THE CODES AND BASED ON BEST INTERNATIONAL ENGINEERING PRACTICES APPLICABLE WITH BASELINE DATA FOR STATION/GT/PRESSURE VESSELS/EQUIPMENT/PIPING WISE.-#DEVELOP A DETAILED LIST OF PIPING, EQUIPMENT AND VALVES WITH RELEVANT DETAILS.-#A COMPREHENSIVE RISK ASSESSMENT SHALL BE MADE AFTER IDENTIFYING POTENTIAL IMPACT FROM THE IDENTIFIED THREATS PRIOR TO PREPARING THE PRELIMINARY INTEGRITY MANAGEMENT PLAN (IMP).-#DEVELOP CRITERIA FOR INSPECTION & TYPE OF</p>						

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			<p>INSPECTIONS REQUI RED AS PERTHE APPLICABLE STANDARDS AND PRACTICES.-#DEVELOP ISOMETRIC SKETCHES FOR THE SYSTEMS TO BE INSPECTED AND MARKTML/CML MARKIN GS ON THE-#-#SKETCHES. MAKE PERMANENT TML/CML MARKING AT CORRESPONDING LOCATIONSOF PIPING & EQUIPMENT FOR FUTURE REFERENCE.-#THE INS PECTION PROCESS SHALL INCLUDE 100% VISUAL INSPECTION INADDITION TO DE/NDE TESTS AS APPLICABLE AS PER APPLICABLE STANDARDS.-#THE QUAN TITY AND TYPE OF THE DE/NDE TESTS CONSIDERED FOR PREPARING ANINSPECTION PLAN SHALL BE ADEQUATE TO MEET 100% INTEGRITY ASSESSMENT OFE QUIPMENT OR PIPING UNDER THE INVESTIGATION IN ACCORDANCE WITH THEREQUIREMENT OF APPLICABLE INTERNATIONAL STANDARDS.-#THE QUANTITY AN D TYPE OF INSPECTION SERVICES PROPOSED SHALL BESUBJECT TO APPROVAL OF</p>						

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			DEWA.PHASE-2, INSPECTION SERVICES-#CONDUCT INSPECTIONS AS PER THE PRELIMINARY INTEGRITY MANAGEMENT PLAN,INSPECTION TEST PLAN AND TML/CML MARKED ISOMETRIC DRAWINGS OR SKETCHES.-#INSPECTION SERVICES SHALL INCLUDE 100% VISUAL INSPECTION OF ALLSYSTEMS, EQUIPMENT AND PIPING COVERED UNDER THE SCOPE OF WORKS.-#DEVELOP INSPECTION REPORTS FOR EACH SYSTEM, EQUIPMENT AND PIPINGINCLUDING EXCEL SHEETS WITH ALL DATA COLLECTED AGAINST EACH ITEMACCORDANCE WITH APPROVED INSPECTION TEST PLAN.###PHASE-3, EVALUATION & FIT FOR SERVICE REPORTS-#EVALUATION OF THE INSPECTION DATA TO IDENTIFY THE POTENTIAL FLAWS ORDEFECTS IF ANY THAT WILL ADVERSELY AFFECT SAFETY AND RELIABILITY OF THESYSTEM DURING ITS REMAINING SERVICE LIFE.-#DETERMINE REMAINING SAFE AND RELIABLE OPERATIONAL LIFE						

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			(REMAININGLIFE ASSESSMENT) OF EACH SYSTEM, PIPING OR EQUIPMENT COVERED UNDER THECONTRACT AND-#PREPARE FIT FOR SERVICE (FFS) REPORT. THE DATA COLLECTED SHALL BEANALYZED SHALL BE BASED ON INTERNATIONAL APPLICABLE CODES AND STANDARDSSUCH AS API 579 FOR THE FIT FOR SERVICE ASSESSMENT. THE REPORT SHALLCONTAIN DETAILED SUPPORTING CALCULATIONS.-#WHEREVER RE MAINING LIFE IS LESS THAN 10 YEARS CONTRACTOR SHALLPROPOSE CORRECTIVE MEASURES TO EXTEND THE LIFE OF THE AFFECTED SYSTEMTILL DESIGN END LIFE OF THE CORRESPONDING GTS.-#RE-EVALUATION OF THE SYSTEMS AFTER CORRECTING RECTIFYING THE FLAWS. THE IMPLEMENTATION OF CORREC TIVE MEASURES AND ADDITIONAL TESTING IFREQUIRED AFTER CORRECTIVE MEASURES ARE NOT COVERED UNDER THE SCOPE OFTHIS CONTRACT. HOWEVER,						

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			IMP SHALL CONSIDER THE IMPLEMENTATION OF CORRECTIVE MEASURES. PHASE-4, DEVELOP FINAL INTEGRITY MANAGEMENT PLAN-# UNDER THIS PHASE, PRELIMINARY IMP TO BE REVISED AFTER CONSIDERING CURRENT INTEGRITY LEVEL SYSTEM BASED ON THE INSPECTION AND ASSESSMENT.-# THE FINAL IMP SHALL ALSO CONSIDER THE INTEGRITY OF THE SYSTEM AFTER CORRECTIVE MEASURES IF ANY ARE FOUND REQUIRED DURING EVALUATION PHASE.-# THE FINAL IMP SHALL HAVE COMPREHENSIVE REMAINING LIFE DETAILS OF ALL SYSTEMS, PIPING, EQUIPMENT COVERED-#-# UNDER THE SCOPE OF WORKS TOGETHER WITH RECOMMENDATION FOR NEXT INSPECTION DUE DATE. THE CONTRACTOR SHALL PROVIDE THE SERVICES OF EXPERIENCED AND CERTIFIED INSPECTORS AS PER THE REQUIREMENTS OF RELEVANT CODES FOR ALL FOUR PHASES OF THE PROJECT. 5.# GENERAL SPECIFICATION FOR SITE WORKS NO OFFICE OR						

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			ACCOMMODATION SHALL BE PROVIDED TO THE CONTRACTOR BY DEWA. THE CONTRACTOR IS EXPECTED TO MAKE HIS OWN ARRANGEMENT FOR THIS.NO STAFF OR VEHICLES OF THE CONTRACTOR WILL BE PERMITTED TO STAY IN DEWAPREMISES AFTER THE CLOSING OF THE DAY, UNLESS APPROVED BY DEWA ON ADAILY BASIS.THE						
2		ITEM-00001	GTE#1TO5 PIPELINE INTEGRITY INSPECTION AND CERTIFICATION GAS TURBINESPIPING SYSTEMSTECHNICAL SPECIFICATION 1. INTRODUCTION:DEWA OPERATES A FLEET OF GAS TURBINES (GT) OF DIFFERENT MAKE AND MODELS.THESE GTS HAVE VARIOUS PIPING SYSTEMS AND PRESSURE VESSELS AS INTEGRALPART OF GAS TURBINE PACKAGE. UAE LOCAL REGULATION EIAC #RQ-1B-004MANDATES INTEGRITY ASSESSMENT OF PIPING AND PRESSURE VESSELS DURING ITSSERVICE LIFE AT PERIODIC INTERVALS.	1	EA				

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			<p>DEWA FOLLOWS A STRINGENT 5-YEARSTANDARD PERIOD FOR INTEGRITY INSPECTION IRRESPECTIVE OF LOC</p> <p>ALREGULATIONSDEWA INTENDS TO APPOINT A COMPETENT INSPECTION AGENCY RECOGNIZED BYLOCAL AND INTERNATIONAL GOVERNMENT AGENCIES, WITH TH</p> <p>E CAPABILITY ANDEXTENSIVE EXPERIENCE TO CARRY OUT INTEGRITY ASSESSMENT (IA) ANDREMAINING LIFE ASSESSMENT (RLA) OF PRESSURE VESSELS A</p> <p>ND PIPING SYSTEMSOF GT PACKAGE INCLUDING GT PROPER AND ITS AUXILIARY PACKAGES. THEEVALUATION IS TO ENSURE THE COMPLIANCE WITH LOCAL</p> <p>REGULATION EIAC#RQ-1B-004 AND WITH INTERNATIONAL STANDARDS SUCH AS API510, ASME B31.8S,API 580/581, API 571 , B 31.3, B31.8, B31.4,</p> <p>API 579, API 1163, API-574, API-570 AND NACE AS APPLICABLE.2.#PHYSICAL BOUNDARY:THE BOUNDARY LIMIT OF INTEGRITY INSPECTION WORKS WI</p>						

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			<p>LL BE THE GT LIMITSO F VARIOUS MAIN AND AUXILIARY SYSTEMS AS PER THE PROCESS &INSTRUMENTATION DRAWINGS (P&IDS) ENCLOSED WITH THE BID.</p> <p>PHYSICALBOUNDARY OF THE WORKS NEEDS TO BE CONFIRMED BY THE CONTRACTOR BASED ONTHE SITE INSPECTION PRIOR TO SUBMISSION OF BID BASED ON THE P&IDSPROVIDED. SOME PIPING WHICH ARE NOT INDICATED IN P&ID BUT ARE PART OFGAS TURBINE SYSTEM WITHIN GT ENCLOSURE SHALL BE AL SO CONSIDERED ASINCLUDED IN SCOPE. THE CONTRACTOR IS EXPECTED TO STUDY SITE AND OBTAINREQUIRED CLARIFICATION ON SUCH PIPING PRIOR TO THE BIDDING.IT IS MANDATORY FOR THE BIDDERS TO VISIT THE SITE FOR PHYSICALVERIFICATION OF THE SYSTEM BOUNDARIES COVERED UNDER THE S COPE TOQUANTIFY THE VOLUME OF WORKS BEFORE SUBMITTING THEIR OFFER.3.#COMPONENTS COVERED:THE</p>						

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			COMPONENTS TO BE INSPECTED UNDER GT MAIN & AUXILIARY SYSTEMS FORINTEGRITY ASSESSMENT SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING:·#PRESSURE VESSELS·#PIPING·#PIPE FITTING S·#VALVES·#SAFETY VALVES/PRESSURE RELIEF VALVES·#JOINTS·#FILTERS / STRAINERS VESSELSCOPE OF WORK:THE SCOPE OF WORKS UNDER THIS CONT RACT IS TO CARRY OUT INTEGRITYASSESSMENT OF GT PIPING AND PRESSURE VESSELS INCLUDING FUEL GAS SYSTEM,FUEL OIL SYSTEM, COOLING AND SEALING AIR SYSTEM, CLOSED COOLING WATERSYSTEM, LUBE OIL SYSTEM, HYDRAULIC SYSTEM, TRIP OIL SYSTEM, BLEEDHEATING SYSTEM, PULSE AIR SYSTEM, BLOW OFF SYSTEM, GT DRAIN SYSTEM, VENTSYSTEMS UP TO THE LAST ISOLATION VALVES, COOLING AND SEAL AIR SYSTEM,INSTRUMENT AIR SYSTEM, CO2 FIRE PROTECTION SYSTEM ETC AS PER THEAPPLICABLE P&IDS ATTACHED WITH TENDER						

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			<p>DOCUMENTS. PLEASE NOTE THAT THIS SPECIFICATION IS COMMON FOR ALL GAS TURBINES OPERATING IN DEWA AND BIDDER IS EXPECTED TO BE FAMILIAR WITH GAS TURBINES AND ITS DESIGNS OF DIFFERENT MAKE AND MODELS FROM OEMS LIKE GENERAL ELECTRIC, SIEMENS, MITSUBISHI, ANSALDO ETC. THE MAIN OBJECTIVE OF THE WORKS UNDER THE SPECIFICATION IS INTEGRITY ASSESSMENT AND REMAINING LIFE ASSESSMENT OF PRESSURE VESSELS / PIPING / COMPONENTS IN COMPLIANCE TO EIAC #RQ-1B-004 AND IN LINE WITH ASME B31.8S, API 580/581, API 571, API 570, B31.1, 31.3, B31.8, B31.4, API 579, API 1163, API 574, API 570 AND NACE AS APPLICABLE AND / OR AS PER THE ORIGINAL CODE OF CONSTRUCTION WITHOUT ANY AMBIGUITY. THE GTS COVERED UNDER THE SCOPE OF THIS SPECIFICATION ARE: 1. #GTE#12. #GTE#23. #GTE#34. #GTE#45. #GTE#5 THE PROCESS OF ASSESSMENT SHALL</p>						

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			<p>FOLLOW STANDARD INTERNATIONAL PROCEDURES AS APPLICABLE FOR SIMILAR WORKS AND SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING. PHASE-1, PRELIMINARY INTEGRITY MANAGEMENT PLAN-#COLLECTION OF THE DESIGN AND OPERATION AND MAINTENANCE MANUALS, DRAWINGS AND RECORDS AS REQUIRED FOR THE ASSESSMENT.-#DESKTOP STUDY OF VARIOUS GAS TURBINE SYSTEMS IN TERMS OF DESIGN, OPERATION AND MAINTENANCE PRACTICES.-#SITE VISITS AS NECESSARY TO FAMILIARIZE THE SYSTEM AND ITS BOUNDARY LIMITS.-#INTERVIEW WITH O&M STAFF AS NECESSARY-#DEVELOP A PRELIMINARY INTEGRITY MANAGEMENT PLAN (IMP) FOR EACH TYPICAL GAS TURBINE CONSIDERING POTENTIAL THREATS AND FAILURE MECHANISMS AS PER THE CODES AND BASED ON BEST INTERNATIONAL ENGINEERING PRACTICES APPLICABLE WITH BASELINE DATA FOR</p>						

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			<p>STATION/GT/PRESSURE VESSELS/EQUIPMENT/PIPING WISE.-#DEVELOP A DETAILED LIST OF PIPING, EQUIPMENT AND VALVES WITH RELEVANT DETAILS.-#A COMPREHENSIVE RISK ASSESSMENT SHALL BE MADE AFTER IDENTIFYING POTENTIAL IMPACT FROM THE IDENTIFIED THREATS PRIOR TO PREPARING THE PRELIMINARY INTEGRITY MANAGEMENT PLAN (IMP).-#DEVELOP CRITERIA FOR INSPECTION & TYPE OF INSPECTIONS REQUIRED AS PER THE APPLICABLE STANDARDS AND PRACTICES.-#DEVELOP ISOMETRIC SKETCHES FOR THE SYSTEMS TO BE INSPECTED AND MARK TML/CML MARKINGS ON THE-#-#SKETCHES. MAKE PERMANENT TML/CML MARKING AT CORRESPONDING LOCATIONS OF PIPING & EQUIPMENT FOR FUTURE REFERENCE.-#THE INSPECTION PROCESS SHALL INCLUDE 100% VISUAL INSPECTION IN ADDITION TO DE/NDE TESTS AS APPLICABLE AS PER APPLICABLE STANDARDS.-#THE QUANTITY</p>						

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			<p>TITY AND TYPE OF THE DE/NDE TESTS CONSIDERED FOR PREPARING ANINSPECTION PLAN SHALL BE ADEQUATE TO MEET 100% INTEGRITY ASSESSMENT OFE QUIPMENT OR PIPING UNDER THE INVESTIGATION IN ACCORDANCE WITH THEREQUIREMENT OF APPLICABLE INTERNATIONAL STANDARDS.-#THE QUANTITY AN D TYPE OF INSPECTION SERVICES PROPOSED SHALL BESUBJECT TO APPROVAL OF DEWA.PHASE-2, INSPECTION SERVICES-#CONDUCT INSPECTIONS AS PER THE PRELIMINARY INTEGRITY MANAGEMENT PLAN,INSPECTION TEST PLAN AND TML/CML MARKED ISOMETRIC DRAWINGS OR SKETCHES.-#INSPECTION SERVIC ES SHALL INCLUDE 100% VISUAL INSPECTION OF ALLSYSTEMS, EQUIPMENT AND PIPING COVERED UNDER THE SCOPE OF WORKS.-#DEVELOP INSPECTION RE PORTS FOR EACH SYSTEM, EQUIPMENT AND PIPINGINCLUDING EXCEL SHEETS WITH ALL DATA COLLECTED AGAINST EACH ITEMACCORDANCE</p>						

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			<p>WITH APPROVED INSPECTION TEST PLAN.###PHASE-3, EVALUATION & FIT FOR SERVICE REPORTS-#EVALUATION OF THE INSPECTION DATA TO IDENTIFY THE POTENTIAL F LAWS OR DEFECTS IF ANY THAT WILL ADVERSELY AFFECT SAFETY AND RELIABILITY OF THE SYSTEM DURING ITS REMAINING SERVICE LIFE.-#DETERMINE REMAINING SAFE AND RELIABLE OPERATIONAL LIFE (REMAINING LIFE ASSESSMENT) OF EACH SYSTEM, PIPING OR EQUIPMENT COVERED UNDER THE CONTRACT AND-#PREPARE FIT FOR SERVICE (FFS) REPORT. THE DATA COLLECTED SHALL BE ANALYZED SHALL BE BASED ON INTERNATIONAL APPLICABLE CODES AND STANDARD SUCH AS API 579 FOR THE FIT FOR SERVICE ASSESSMENT. THE REPORT SHALL CONTAIN DETAILED SUPPORTING CALCULATIONS.-#WHEREVER REMAINING LIFE IS LESS THAN 10 YEARS CONTRACTOR SHALL PROPOSE CORRECTIVE</p>						

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			<p>MEASURES TO EXTEND THE LIFE OF THE AFFECTED SYSTEMTILL DESIGN END LIFE OF THE CORRESPONDING GTS.-#RE-EVALUATION OF THE SYSTEMS AFTER CORRECTING RECTIFYING THE FLAWS. THE IMPLEMENTATION OF CORRECTIVE MEASURES AND ADDITIONAL TESTING IFREQUIRED AFTER CORRECTIVE MEASURES ARE NOT COVERED UNDER THE SCOPE OFTHIS CONTRACT. HOWEVER, IMP SHALL CONSIDER THE IMPLEMENTATION OFCORRECTIVE MEASURES.PHASE-4, DEVELOP FINAL INTEGRITY MANAGEMENT PLAN-#UNDER THIS PHASE, PRELIMINARY IMP TO BE REVISED AFTER CONSIDERINGCURRENT INTEGRITY LEVEL SYSTEM BASED ON THE INSPECTION AND ASSESSMENT.-#THE FINAL IMP SHALL ALSO CONSIDER THE INTEGRITY OF THE SYSTEM AFTERCORRECTIVE MEASURES IF ANY ARE FOUND REQUIRED DURING EVALUATION PHASE.-#THE FINAL IMP SHALL HAVE COMPREHENSIVE REMAINING</p>						

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REQ No : 1032503642
REQ TITLE : E'STATION, GT#1to5
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SL NO	ITEM CODE	SERVICE ID	DESCRIPTION	QTY	UOM	BRAND/ORIGIN	WARRANTY	UNIT PRICE	TOTAL PRICE
			LIFE DETAILS OF ALL SYSTEMS, PIPING, EQUIPMENT COVERED-#-# UNDER THE SCOPE OF WORKS TOGETHER WITH RECOMMENDATION FOR NEXT INSPECTION DUE DATE. THE CONTRACTOR SHALL PROVIDE THE SERVICES OF EXPERIENCED AND CERTIFIED INSPECTORS AS PER THE REQUIREMENTS OF RELEVANT CODES FOR ALL FOUR PHASES OF THE PROJECT. 5. #GENERAL SPECIFICATION FOR SITE WORKS NO OFFICE OR ACCOMMODATION SHALL BE PROVIDED TO THE CONTRACTOR BY DEWA. THE CONTRACTOR IS EXPECTED TO MAKE HIS OWN ARRANGEMENT FOR THIS. NO STAFF OR VEHICLES OF THE CONTRACTOR WILL BE PERMITTED TO STAY IN DEWA PREMISES AFTER THE CLOSING OF THE DAY, UNLESS APPROVED BY DEWA ON A DAILY BASIS. THE						
3		ITEM-00001	GTE#1TO5 PIPELINE INTEGRITY INSPECTION AND CERTIFICATION GAS TURBINE SPPING SYSTEMS TECHNICAL SPECIFICATION 1.	1	EA				

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SL NO	ITEM CODE	SERVICE ID	DESCRIPTION	QTY	UOM	BRAND/ORIGIN	WARRANTY	UNIT PRICE	TOTAL PRICE
			<p>INTRODUCTION:DEWA OPERATES A FLEET OF GAS TURBINES (GT) OF DIFFERENT MAKE AND MODELS.THESE GTS HAVE VARIOUS PIPING SYSTEMS AND PRESSURE VESSELS AS INTEGRAL PART OF GAS TURBINE PACKAGE. UAE LOCAL REGULATION EIAC #RQ-1B-004MANDATES INTEGRITY ASSESSMENT OF PIPING AND PRESSURE VESSELS DURING ITS SERVICE LIFE AT PERIODIC INTERVALS. DEWA FOLLOWS A STRINGENT 5-YEAR STANDARD PERIOD FOR INTEGRITY INSPECTION IRRESPECTIVE OF LOCATION. DEWA INTENDS TO APPOINT A COMPETENT INSPECTION AGENCY RECOGNIZED BY LOCAL AND INTERNATIONAL GOVERNMENT AGENCIES, WITH THE CAPABILITY AND EXTENSIVE EXPERIENCE TO CARRY OUT INTEGRITY ASSESSMENT (IA) AND REMAINING LIFE ASSESSMENT (RLA) OF PRESSURE VESSELS AND PIPING SYSTEMS OF GT PACKAGE INCLUDING GT PROPER AND ITS AUXILIARY PACKAGES.</p>						

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			<p>THE EVALUATION IS TO ENSURE THE COMPLIANCE WITH LOCAL REGULATION EAC#RQ-1B-004 AND WITH INTERNATIONAL STANDARDS SUCH AS API 510, ASME B31.8S, API 580/581, API 571, B 31.3, B31.8, B31.4, API 579, API 1163, API-574, API-570 AND NACE AS APPLICABLE. 2. #PHYSICAL BOUNDARY: THE BOUNDARY LIMIT OF INTEGRITY INSPECTION WORKS WILL BE THE GT LIMITS OF VARIOUS MAIN AND AUXILIARY SYSTEMS AS PER THE PROCESS & INSTRUMENTATION DRAWINGS (P&IDs) ENCLOSED WITH THE BID.</p> <p>PHYSICAL BOUNDARY OF THE WORKS NEEDS TO BE CONFIRMED BY THE CONTRACTOR BASED ON THE SITE INSPECTION PRIOR TO SUBMISSION OF BID BASED ON THE P&ID PROVIDED. SOME PIPING WHICH ARE NOT INDICATED IN P&ID BUT ARE PART OF GAS TURBINE SYSTEM WITHIN GT ENCLOSURE SHALL BE ALSO CONSIDERED AS INCLUDED IN SCOPE. THE</p>						

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			<p>CONTRACTOR IS EXPECTED TO STUDY SITE AND OBTAIN REQUIRED CLARIFICATION ON SUCH PIPING PRIOR TO THE BIDDING. IT IS MANDATORY FOR THE BIDDERS TO VISIT THE SITE FOR PHYSICAL VERIFICATION OF THE SYSTEM BOUNDARIES COVERED UNDER THE SCOPE TO QUANTIFY THE VOLUME OF WORKS BEFORE SUBMITTING THEIR OFFER.</p> <p>3. #COMPONENTS COVERED: THE COMPONENTS TO BE INSPECTED UNDER GT MAIN & AUXILIARY SYSTEMS FOR INTEGRITY ASSESSMENT SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING:</p> <ul style="list-style-type: none"> #PRESSURE VESSELS #PIPING #PIPE FITTING #VALVES #SAFETY VALVES/PRESSURE RELIEF VALVES #JOINTS #FILTERS / STRAINERS <p>VESSEL SCOPE OF WORK: THE SCOPE OF WORKS UNDER THIS CONTRACT IS TO CARRY OUT INTEGRITY ASSESSMENT OF GT PIPING AND PRESSURE VESSELS INCLUDING FUEL GAS SYSTEM, FUEL OIL SYSTEM, COOLING AND SE</p>						

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			<p>ALING AIR SYSTEM, CLOSED COOLING WATERSYSTEM, LUBE OIL SYSTEM, HYDRAULIC SYSTEM, TRIP OIL SYSTEM, BLEEDHEATING SYSTEM, PULSE AIR SYS TEM, BLOW OFF SYSTEM, GT DRAIN SYSTEM, VENTSYSTEMS UP TO THE LAST ISOLATION VALVES, COOLING AND SEAL AIR SYSTEM,INSTRUMENT AIR SYSTE M, CO2 FIRE PROTECTION SYSTEM ETC AS PER THEAPPLICABLE P&IDS ATTACHED WITH TENDER DOCUMENTS. PLEASE NOTE THAT THISSPECIFICATION IS C OMMON FOR ALL GAS TURBINES OPERATING IN DEWA ANDBIDDER IS EXPECTED TO BE FAMILIAR WITH GAS TURBINES AND ITS DESIGNS OFDIFFERENT MAKE AND MODELS FROM OEMS LIKE GENERAL ELECTRIC, SIEMENS,MITSUBISHI, ANSALDO ETC.THE MAIN OBJECTIVE OF THE WORKS UNDER THE SPECIFICATION IS INTEGRITYASSESSMENT AND REMAINING LIFE ASSESSMENT OF PRESSURE VESSELS / PIPING /COMPONENTS IN COMPLIANCE TO EIAC</p>						

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			<p>#RQ-1B-004 AND IN LINE WITH ASMEB31.8S, API 580/581, API 571 ,API 570, B31.1, 31.3, B31.8, B31.4, API579, API 1163, API -574,API-570 AND NACE AS APPLICABLE AND / OR AS PERTHE ORIGINAL CODE OF CONSTRUCTION WITHOUT ANY AMBIGUITY. THE GTS COVEREDUNDER THE SCOPE OF THIS SPECIFICATIO N ARE:1.#GTE#12.#GTE#23.#GTE#34.#GTE#45. GTE#5THE PROCESS OF ASSESSMENT SHALL FOLLOW STANDARD INTERNATIONAL PROCEDURESAS APPLICABLE FOR SIMILAR WORKS AND SHALL INCLUDE BUT NOT LIMITED TO THEFOLLOWING.PHASE-1, PRELIMINARY INTEGRITY MANAGEMENT PLAN-#COLLECTION OF THE DESIGN AND OPERATION AND MAINTENANCE MANUALS,DRAWINGS AND RECORDS AS REQUIRED FOR THE ASSESSMENT.-#DESKTOP STUDY OF VARIOUS GAS TURBINE SYSTEMS IN TERMS OF DESIGN,OPERATION AND MAINTENANCE PRACTICES.-#SITE VISITS AS NECESSARY TO</p>						

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SL NO	ITEM CODE	SERVICE ID	DESCRIPTION	QTY	UOM	BRAND/ORIGIN	WARRANTY	UNIT PRICE	TOTAL PRICE
			FAMILIARIZE THE SYSTEM AND ITS BOUNDARYLIMITS.-#INTERVIEW WITH O&M STAFF AS NECESSARY-#DEVELOP A PRELIMINARY INTEGRITY MANAGEMENT PLAN (IMP) FOR EACH TYPICAL GAS TURBINE CONSIDERING POTENTIAL THREATS AND FAILURE MECHANISMS AS PER THE CODES AND BASED ON BEST INTERNATIONAL ENGINEERING PRACTICES APPLICABLE WITH BASELINE DATA FOR STATION/GT/PRESSURE VESSELS/EQUIPMENT/PIPING WISE.-#DEVELOP A DETAILED LIST OF PIPING, EQUIPMENT AND VALVES WITH RELEVANT DETAILS.-#A COMPREHENSIVE RISK ASSESSMENT SHALL BE MADE AFTER IDENTIFYING POTENTIAL IMPACT FROM THE IDENTIFIED THREATS PRIOR TO PREPARING THE PRELIMINARY INTEGRITY MANAGEMENT PLAN (IMP).-#DEVELOP CRITERIA FOR INSPECTION & TYPE OF INSPECTIONS REQUIRED AS PER THE APPLICABLE STANDARDS AND PRACTICES.-#DEVELOP ISOMETRIC SKETCHES						

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			FOR THE SYSTEMS TO BE INSPECTED AND MARKTML/CML MARKIN GS ON THE-#-#SKETCHES. MAKE PERMANENT TML/CML MARKING AT CORRESPONDING LOCATIONSO F PIPING & EQUIPMENT FOR FUTURE REFERENCE.-#THE INS PECTION PROCESS SHALL INCLUDE 100% VISUAL INSPECTION INADDITION TO DE/NDE TESTS AS APPLICABLE AS PER APPLICABLE STANDARDS.-#THE QUAN TITY AND TYPE OF THE DE/NDE TESTS CONSIDERED FOR PREPARING ANINSPECTION PLAN SHALL BE ADEQUATE TO MEET 100% INTEGRITY ASSESSMENT OFE QUIPMENT OR PIPING UNDER THE INVESTIGATION IN ACCORDANCE WITH THEREQUIREMENT OF APPLICABLE INTERNATIONAL STANDARDS.-#THE QUANTITY AN D TYPE OF INSPECTION SERVICES PROPOSED SHALL BESUBJECT TO APPROVAL OF DEWA.PHASE-2, INSPECTION SERVICES-#CONDUCT INSPECTIONS AS PER THE PRELIMINARY INTEGRITY MANAGEMENT						

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			<p>PLAN,INSPECTION TEST PLAN AND TML/CML MARKED ISOMETRIC DRAWINGS OR SKETCHES.-#INSPECTION SERVICES SHALL INCLUDE 100% VISUAL INSPECTION OF ALLSYSTEMS, EQUIPMENT AND PIPING COVERED UNDER THE SCOPE OF WORKS.-#DEVELOP INSPECTION REPORTS FOR EACH SYSTEM, EQUIPMENT AND PIPINGINCLUDING EXCEL SHEETS WITH ALL DATA COLLECTED AGAINST EACH ITEMACCORDANCE WITH APPROVED INSPECTION TEST PLAN.###PHASE-3, EVALUATION & FIT FOR SERVICE REPORTS-#EVALUATION OF THE INSPECTION DATA TO IDENTIFY THE POTENTIAL FLAWS ORDEFECTS IF ANY THAT WILL ADVERSELY AFFECT SAFETY AND RELIABILITY OF THESYSTEM DURING ITS REMAINING SERVICE LIFE.-#DETERMINE REMAINING SAFE AND RELIABLE OPERATIONAL LIFE (REMAININGLIFE ASSESSMENT) OF EACH SYSTEM, PIPING OR EQUIPMENT COVERED UNDER THECONTRACT</p>						

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			<p>AND-#PREPARE FIT FOR SERVICE (FFS) REPORT. THE DATA COLLECTED SHALL BEANALYZED SHALL BE BASED ON INTERNATIONAL APPLICABLE CODES AND STANDARDSSUCH AS API 579 FOR THE FIT FOR SERVICE ASSESSMENT. THE REPORT SHALLCONTAIN DETAILED SUPPORTING CALCULATIONS.-#WHEREVER RE MAINING LIFE IS LESS THAN 10 YEARS CONTRACTOR SHALLPROPOSE CORRECTIVE MEASURES TO EXTEND THE LIFE OF THE AFFECTED SYSTEMTILL DESIGN END LIFE OF THE CORRESPONDING GTS.-#RE-EVALUATION OF THE SYSTEMS AFTER CORRECTING RECTIFYING THE FLAWS. THE IMPLEMENTATION OF CORREC TIVE MEASURES AND ADDITIONAL TESTING IFREQUIRED AFTER CORRECTIVE MEASURES ARE NOT COVERED UNDER THE SCOPE OFTHIS CONTRACT. HOWEVER, IMP SHALL CONSIDER THE IMPLEMENTATION OFCORRECTIVE MEASURES.PHASE-4, DEVELOP FINAL INTEGRITY MANAGEMENT PLAN-#UNDER</p>						

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			THIS PHASE, PREL IMINARY IMP TO BE REVISED AFTER CONSIDERING CURRENT INTEGRITY LEVEL SYSTEM BASED ON THE INSPECTION AND ASSESSMENT.-#THE FINAL IMP SHA LL ALSO CONSIDER THE INTEGRITY OF THE SYSTEM AFTER CORRECTIVE MEASURES IF ANY ARE FOUND REQUIRED DURING EVALUATION PHASE.-#THE FINAL IMP SHALL HAVE COMPREHENSIVE REMAINING LIFE DETAILS OF ALL SYSTEMS, PIPING, EQUIPMENT COVERED.-#-#UNDER THE SCOPE OF WORKS TOGETHER WITH RECOMMENDATION FOR NEXT INSPECTION DUE DATE. THE CONTRACTOR SHALL PROVIDE THE SERVICES OF EXPERIENCED AND CERTIFIED INSPECTORS AS PER THE REQUIREMENTS OF RELEVANT CODES FOR ALL FOUR PHASES OF THE PROJECT.5.#GENERAL SPECIFICATION FOR SITE WORKS NO OFFICE OR ACCOMMODATION SHALL BE PROVIDED TO THE CONTRACTOR BY DEWA. THE CONTRACTOR IS EXPECTED TO						

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			MAKE HIS OWN ARRANGEMENT FOR THIS.NO STAFF OR VEHICLES OF THE CONTRACTOR WILL BE PERMITTED TO STAY IN DEWAPREMISES AFTER THE CLOSING OF THE DAY, UNLESS APPROVED BY DEWA ON ADAILY BASI S.THE						
4		ITEM-00001	GTE#1TO5 PIPELINE INTEGRITY INSPECTION AND CERTIFICATION GAS TURBINESPIPING SYSTEMSTECHNICAL SPECIFICATION 1. INTRODUCTION:DEWA OPERATES A FLEET OF GAS TURBINES (GT) OF DIFFERENT MAKE AND MODELS.THESE GTS HAVE VARIOUS PIPING SYSTEMS AND PRESSURE VESSELS AS INTEGRALPART OF GAS TURBINE PACKAGE. UAE LOCAL REGULATION EIAC #RQ-1B-004MANDATES INTEGRITY ASSESSMENT OF PIPING AND PRESSURE VESSELS DURING ITSSERVICE LIFE AT PERIODIC INTERVALS. DEWA FOLLOWS A STRINGENT 5-YEARSTANDARD PERIOD FOR INTEGRITY INSPECTION IRRESPECTIVE OF LOC	1	EA				

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			<p>ALREGULATIONSDEWA INTENDS TO APPOINT A COMPETENT INSPECTION AGENCY RECOGNIZED BYLOCAL AND INTERNATIONAL GOVERNMENT AGENCIES, WITH THE CAPABILITY ANDEXTENSIVE EXPERIENCE TO CARRY OUT INTEGRITY ASSESSMENT (IA) ANDREMAINING LIFE ASSESSMENT (RLA) OF PRESSURE VESSELS AND PIPING SYSTEMSOFT GT PACKAGE INCLUDING GT PROPER AND ITS AUXILIARY PACKAGES. THEEVALUATION IS TO ENSURE THE COMPLIANCE WITH LOCAL REGULATION EIAC#RQ-1B-004 AND WITH INTERNATIONAL STANDARDS SUCH AS API510, ASME B31.8S,API 580/581, API 571 , B 31.3, B31.8, B31.4, API 579, API 1163, API-574, API-570 AND NACE AS APPLICABLE.2.#PHYSICAL BOUNDARY:THE BOUNDARY LIMIT OF INTEGRITY INSPECTION WORKS WILL BE THE GT LIMITSOFT VARIOUS MAIN AND AUXILIARY SYSTEMS AS PER THE PROCESS &INSTRUMENTATION DRAWINGS (P&IDS)</p>						

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			<p>ENCLOSED WITH THE BID.</p> <p>PHYSICAL BOUNDARY OF THE WORKS NEEDS TO BE CONFIRMED BY THE CONTRACTOR BASED ON THE SITE INSPECTION PRIOR TO SUBMISSION OF BID BASED ON THE P&ID PROVIDED. SOME PIPING WHICH ARE NOT INDICATED IN P&ID BUT ARE PART OF GAS TURBINE SYSTEM WITHIN GT ENCLOSURE SHALL BE ALSO CONSIDERED AS INCLUDED IN SCOPE. THE CONTRACTOR IS EXPECTED TO STUDY SITE AND OBTAIN REQUIRED CLARIFICATION ON SUCH PIPING PRIOR TO THE BIDDING. IT IS MANDATORY FOR THE BIDDERS TO VISIT THE SITE FOR PHYSICAL VERIFICATION OF THE SYSTEM BOUNDARIES COVERED UNDER THE SCOPE TO QUANTIFY THE VOLUME OF WORKS BEFORE SUBMITTING THEIR OFFER.</p> <p>3. COMPONENTS COVERED: THE COMPONENTS TO BE INSPECTED UNDER GT MAIN & AUXILIARY SYSTEMS FOR INTEGRITY ASSESSMENT SHALL INCLUDE BUT NOT LIMITED</p>						

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			<p>TO THE FOLLOWING: #PRESSURE VESSELS #PIPING #PIPE FITTING S #VALVES #SAFETY VALVES/PRESSURE RELIEF VALVES #JOINTS #FILTERS / STRAINERS VESSELSCOPE OF WORK: THE SCOPE OF WORKS UNDER THIS CONTRACT IS TO CARRY OUT INTEGRITY ASSESSMENT OF GT PIPING AND PRESSURE VESSELS INCLUDING FUEL GAS SYSTEM, FUEL OIL SYSTEM, COOLING AND SEALING AIR SYSTEM, CLOSED COOLING WATER SYSTEM, LUBE OIL SYSTEM, HYDRAULIC SYSTEM, TRIP OIL SYSTEM, BLEED HEATING SYSTEM, PULSE AIR SYSTEM, BLOW OFF SYSTEM, GT DRAIN SYSTEM, VENT SYSTEMS UP TO THE LAST ISOLATION VALVES, COOLING AND SEAL AIR SYSTEM, INSTRUMENT AIR SYSTEM, CO2 FIRE PROTECTION SYSTEM ETC AS PER THE APPLICABLE P&IDS ATTACHED WITH TENDER DOCUMENTS. PLEASE NOTE THAT THIS SPECIFICATION IS COMMON FOR ALL GAS TURBINES OPERATING IN</p>						

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			<p>DEWA ANDBIDDER IS EXPECTED TO BE FAMILIAR WITH GAS TURBINES AND ITS DESIGNS OFDIFFERENT MAKE AND MODELS FROM OEMS LIKE GENERAL ELECTRIC, SIEMENS,MITSUBISHI, ANSALDO ETC.THE MAIN OBJECTIVE OF THE WORKS UNDER THE SPECIFICATION IS INTEGRITYASSESSMENT AND REMAINING LIFE ASSESSMENT OF PRESSURE VESSELS / PIPING /COMPONENTS IN COMPLIANCE TO EIAC #RQ-1B-004 AND IN LINE WITH ASMEB31.8S, API 580/581, API 571 ,API 570, B31.1, 31.3, B31.8, B31.4, API579, API 1163, API -574,API-570 AND NACE AS AP PLICABLE AND / OR AS PERTHE ORIGINAL CODE OF CONSTRUCTION WITHOUT ANY AMBIGUITY. THE GTS COVEREDUNDER THE SCOPE OF THIS SPECIFICATIO N ARE:1.#GTE#12.#GTE#23.#GTE#34.#GTE#45. GTE#5THE PROCESS OF ASSESSMENT SHALL FOLLOW STANDARD INTERNATIONAL PROCEDURESAS APPLICABL E FOR SIMILAR WORKS AND SHALL INCLUDE BUT</p>						

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			<p>NOT LIMITED TO THE FOLLOWING. PHASE-1, PRELIMINARY INTEGRITY MANAGEMENT PLAN-#COLLECTION OF THE DESIGN AND OPERATION AND MAINTENANCE MANUALS, DRAWINGS AND RECORDS AS REQUIRED FOR THE ASSESSMENT.-#DESKTOP STUDY OF VARIOUS GAS TURBINE SYSTEMS IN TERMS OF DESIGN, OPERATION AND MAINTENANCE PRACTICES.-#SITE VISITS AS NECESSARY TO FAMILIARIZE THE SYSTEM AND ITS BOUNDARY LIMITS.-#INTERVIEW WITH O&M STAFF AS NECESSARY-#DEVELOP A PRELIMINARY INTEGRITY MANAGEMENT PLAN (IMP) FOR EACH TYPICAL GAS TURBINE CONSIDERING POTENTIAL THREATS AND FAILURE MECHANISMS AS PER THE CODES AND BASED ON BEST INTERNATIONAL ENGINEERING PRACTICES APPLICABLE WITH BASELINE DATA FOR STATION/GT/PRESSURE VESSELS/EQUIPMENT/PIPING WISE.-#DEVELOP A DETAILED LIST OF PIPING, EQUIPMENT AND V</p>						

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			<p>ALVES WITH RELEVANTDETAILS.-#A COMPREHENSIVE RISK ASSESSMENT SHALL BE MADE AFTER IDENTIFYINGPOTENTIAL IMPACT FROM THE IDENTIFIED THR EATS PRIOR TO PREPARING THEPRELIMINARY INTEGRITY MANAGEMENT PLAN (IMP).-#DEVELOP CRITERIA FOR INSPECTION & TYPE OF INSPECTIONS REQUI RED AS PERTHE APPLICABLE STANDARDS AND PRACTICES.-#DEVELOP ISOMETRIC SKETCHES FOR THE SYSTEMS TO BE INSPECTED AND MARKTML/CML MARKIN GS ON THE-#-#SKETCHES. MAKE PERMANENT TML/CML MARKING AT CORRESPONDING LOCATIONSO F PIPING & EQUIPMENT FOR FUTURE REFERENCE.-#THE INS PECTION PROCESS SHALL INCLUDE 100% VISUAL INSPECTION INADDITION TO DE/NDE TESTS AS APPLICABLE AS PER APPLICABLE STANDARDS.-#THE QUAN TITY AND TYPE OF THE DE/NDE TESTS CONSIDERED FOR PREPARING ANINSPECTION PLAN SHALL BE ADEQUATE TO MEET 100%</p>						

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			<p>INTEGRITY ASSESSMENT OF EQUIPMENT OR PIPING UNDER THE INVESTIGATION IN ACCORDANCE WITH THE REQUIREMENT OF APPLICABLE INTERNATIONAL STANDARDS.-#THE QUANTITY AND TYPE OF INSPECTION SERVICES PROPOSED SHALL BE SUBJECT TO APPROVAL OF DEWA.PHASE-2, INSPECTION SERVICES.-#CONDUCT INSPECTIONS AS PER THE PRELIMINARY INTEGRITY MANAGEMENT PLAN, INSPECTION TEST PLAN AND TML/CML MARKED ISOMETRIC DRAWINGS OR SKETCHES.-#INSPECTION SERVICES SHALL INCLUDE 100% VISUAL INSPECTION OF ALL SYSTEMS, EQUIPMENT AND PIPING COVERED UNDER THE SCOPE OF WORKS.-#DEVELOP INSPECTION REPORTS FOR EACH SYSTEM, EQUIPMENT AND PIPING INCLUDING EXCEL SHEETS WITH ALL DATA COLLECTED AGAINST EACH ITEM ACCORDANCE WITH APPROVED INSPECTION TEST PLAN.###PHASE-3, EVALUATION & FIT FOR SERVICE REPORTS.-#EVALUATION OF</p>						

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REQ TITLE : E'STATION, GT#1to5
DELIVERY LOCATION
CLOSING DATE : 12.08.2025
CLOSING TIME : 10:00:00

SL NO	ITEM CODE	SERVICE ID	DESCRIPTION	QTY	UOM	BRAND/ORIGIN	WARRANTY	UNIT PRICE	TOTAL PRICE
			<p>THE INSPECTION DATA TO IDENTIFY THE POTENTIAL F LAWS OR DEFECTS IF ANY THAT WILL ADVERSELY AFFECT SAFETY AND RELIABILITY OF THE SYSTEM DURING ITS REMAINING SERVICE LIFE.-#DETERMINE R EMAINING SAFE AND RELIABLE OPERATIONAL LIFE (REMAINING LIFE ASSESSMENT) OF EACH SYSTEM, PIPING OR EQUIPMENT COVERED UNDER THE CONTRACT AND-#PREPARE FIT FOR SERVICE (FFS) REPORT. THE DATA COLLECTED SHALL BE ANALYZED SHALL BE BASED ON INTERNATIONAL APPLICABLE CODES AND STANDARD SUCH AS API 579 FOR THE FIT FOR SERVICE ASSESSMENT. THE REPORT SHALL CONTAIN DETAILED SUPPORTING CALCULATIONS.-#WHEREVER RE MAINING LIFE IS LESS THAN 10 YEARS CONTRACTOR SHALL PROPOSE CORRECTIVE MEASURES TO EXTEND THE LIFE OF THE AFFECTED SYSTEM TILL DESIGN END LIFE OF THE CORRESPONDING</p>						

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			GTS.-#RE-EVALUATION OF THE SYSTEMS AFTER CORRECTING RECTIFYING THE FLAWS. THE IMPLEMENTATION OF CORRECTIVE MEASURES AND ADDITIONAL TESTING IF REQUIRED AFTER CORRECTIVE MEASURES ARE NOT COVERED UNDER THE SCOPE OF THIS CONTRACT. HOWEVER, IMP SHALL CONSIDER THE IMPLEMENTATION OF CORRECTIVE MEASURES. PHASE-4, DEVELOP FINAL INTEGRITY MANAGEMENT PLAN-#UNDER THIS PHASE, PRELIMINARY IMP TO BE REVISED AFTER CONSIDERING CURRENT INTEGRITY LEVEL SYSTEM BASED ON THE INSPECTION AND ASSESSMENT.-#THE FINAL IMP SHALL ALSO CONSIDER THE INTEGRITY OF THE SYSTEM AFTER CORRECTIVE MEASURES IF ANY ARE FOUND REQUIRED DURING EVALUATION PHASE.-#THE FINAL IMP SHALL HAVE COMPREHENSIVE REMAINING LIFE DETAILS OF ALL SYSTEMS, PIPING, EQUIPMENT COVERED-#-#UNDER THE SCOPE OF WORKS TOGETHER WITH						

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			TH RECOMMENDATION FOR NEXTINSPECTION DUE DATE.THE CONTRACTOR SHALL PROVIDE THE SERVICES OF EXPERIENCED AND CERTIFIEDINSPECTORS AS PE R THE REQUIREMENTS OF RELEVANT CODES FOR ALL FOUR PHASESO OF THE PROJECT.5.#GENERAL SPECIFICATION FOR SITE WORKSNO OFFICE OR ACCOMMODA TION SHALL BE PROVIDED TO THE CONTRACTOR BY DEWA. THE CONTRACTOR IS EXPECTED TO MAKE HIS OWN ARRANGEMENT FOR THIS.NO STAFF OR VEHIC LES OF THE CONTRACTOR WILL BE PERMITTED TO STAY IN DEWAPREMISES AFTER THE CLOSING OF THE DAY, UNLESS APPROVED BY DEWA ON ADAILY BASI S.THE						
5		ITEM-00001	GTE#1TO5 PIPELINE INTEGRITY INSPECTION AND CERTIFICATION GAS TURBINESPIPING SYSTEMSTECHNICAL SPECIFICATION 1. INTRODUCTION:DEWA OPER ATES A FLEET OF GAS TURBINES (GT) OF DIFFERENT MAKE AND MODELS.THESE GTS HAVE	1	EA				

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			<p>VARIOUS PIPING SYSTEMS AND PRESSURE VESSELS AS INTEGRA LPART OF GAS TURBINE PACKAGE. UAE LOCAL REGULATION EAC #RQ-1B-004MANDATES INTEGRITY ASSESSMENT OF PIPING AND PRESSURE VESSELS DURIN G ITSSERVICE LIFE AT PERIODIC INTERVALS. DEWA FOLLOWS A STRINGENT 5-YEARSTANDARD PERIOD FOR INTEGRITY INSPECTION IRRESPECTIVE OF LOC ALREGULATIONSDEWA INTENDS TO APPOINT A COMPETENT INSPECTION AGENCY RECOGNIZED BYLOCAL AND INTERNATIONAL GOVERNMENT AGENCIES, WITH TH E CAPABILITY ANDEXTENSIVE EXPERIENCE TO CARRY OUT INTEGRITY ASSESSMENT (IA) ANDREMAINING LIFE ASSESSMENT (RLA) OF PRESSURE VESSELS A ND PIPING SYSTEMSOF GT PACKAGE INCLUDING GT PROPER AND ITS AUXILIARY PACKAGES. THEEVALUATION IS TO ENSURE THE COMPLIANCE WITH LOCAL REGULATION EAC#RQ-1B-004 AND WITH</p>						

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			<p>INTERNATIONAL STANDARDS SUCH AS API510, ASME B31.8S, API 580/581, API 571 , B 31.3, B31.8, B31.4, API 579, API 1163, API-574, API-570 AND NACE AS APPLICABLE.2.#PHYSICAL BOUNDARY:THE BOUNDARY LIMIT OF INTEGRITY INSPECTION WORKS WILL BE THE GT LIMITS OF VARIOUS MAIN AND AUXILIARY SYSTEMS AS PER THE PROCESS & INSTRUMENTATION DRAWINGS (P&IDs) ENCLOSED WITH THE BID.</p> <p>PHYSICAL BOUNDARY OF THE WORKS NEEDS TO BE CONFIRMED BY THE CONTRACTOR BASED ON THE SITE INSPECTION PRIOR TO SUBMISSION OF BID BASED ON THE P&ID PROVIDED. SOME PIPING WHICH ARE NOT INDICATED IN P&ID BUT ARE PART OF GAS TURBINE SYSTEM WITHIN GT ENCLOSURE SHALL BE ALSO CONSIDERED AS INCLUDED IN SCOPE. THE CONTRACTOR IS EXPECTED TO STUDY SITE AND OBTAIN REQUIRED CLARIFICATION ON SUCH PIPING PRIOR TO</p>						

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			<p>THE BIDDING.IT IS MANDATORY FOR THE BIDDERS TO VISIT THE SITE FOR PHYSICALVERIFICATION OF THE SYSTEM BOUNDARIES COVERED UNDER THE S</p> <p>COPE TOQUANTIFY THE VOLUME OF WORKS BEFORE SUBMITTING THEIR OFFER.3.#COMPONENTS COVERED:THE COMPONENTS TO BE INSPECTED UNDER GT MAIN & AUXILIARY SYSTEMS FORINTEGRITY ASSESSMENT SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING: #PRESSURE VESSELS.#PIPING.#PIPE FITTING S.#VALVES.#SAFETY VALVES/PRESSURE RELIEF VALVES.#JOINTS.#FILTERS / STRAINERS VESSELSCOPE OF WORK:THE SCOPE OF WORKS UNDER THIS CONT</p> <p>RACT IS TO CARRY OUT INTEGRITYASSESSMENT OF GT PIPING AND PRESSURE VESSELS INCLUDING FUEL GAS SYSTEM,FUEL OIL SYSTEM, COOLING AND SE</p> <p>ALING AIR SYSTEM, CLOSED COOLING WATERSYSTEM, LUBE OIL SYSTEM, HYDRAULIC SYSTEM, TRIP OIL SYSTEM, BLEEDHEATING</p>						

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			<p>SYSTEM, PULSE AIR SYS TEM, BLOW OFF SYSTEM, GT DRAIN SYSTEM, VENTSYSTEMS UP TO THE LAST ISOLATION VALVES, COOLING AND SEAL AIR SYSTEM,INSTRUMENT AIR SYSTE M, CO2 FIRE PROTECTION SYSTEM ETC AS PER THEAPPLICABLE P&IDS ATTACHED WITH TENDER DOCUMENTS. PLEASE NOTE THAT THISSPECIFICATION IS C OMMON FOR ALL GAS TURBINES OPERATING IN DEWA ANDBIDDER IS EXPECTED TO BE FAMILIAR WITH GAS TURBINES AND ITS DESIGNS OFDIFFERENT MAKE AND MODELS FROM OEMS LIKE GENERAL ELECTRIC, SIEMENS,MITSUBISHI, ANSALDO ETC.THE MAIN OBJECTIVE OF THE WORKS UNDER THE SPECIFICATION IS INTEGRITYASSESSMENT AND REMAINING LIFE ASSESSMENT OF PRESSURE VESSELS / PIPING /COMPONENTS IN COMPLIANCE TO EIAC #RQ-1B-004 AND IN LINE WITH ASMEB31.8S, API 580/581, API 571 ,API 570, B31.1, 31.3, B31.8, B31.4, API579, API 1163, API</p>						

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			<p>-574,API-570 AND NACE AS AP PLICABLE AND / OR AS PERTHE ORIGINAL CODE OF CONSTRUCTION WITHOUT ANY AMBIGUITY. THE GTS COVEREDUNDER THE SCOPE OF THIS SPECIFICATIO N ARE:1.#GTE#12.#GTE#23.#GTE#34.#GTE#45. GTE#5THE PROCESS OF ASSESSMENT SHALL FOLLOW STANDARD INTERNATIONAL PROCEDURESAS APPLICABL E FOR SIMILAR WORKS AND SHALL INCLUDE BUT NOT LIMITED TO THEFOLLOWING.PHASE-1, PRELIMINARY INTEGRITY MANAGEMENT PLAN-#COLLECTION OF THE DESIGN AND OPERATION AND MAINTENANCE MANUALS,DRAWINGS AND RECORDS AS REQUIRED FOR THE ASSESSMENT.-#DESKTOP STUDY OF VARIOUS GAS TURBINE SYSTEMS IN TERMS OF DESIGN,OPERATION AND MAINTENANCE PRACTICES.-#SITE VISITS AS NECESSARY TO FAMILIARIZE THE SYSTEM AND ITS BOUNDARYLIMITS.-#INTERVIEW WITH O&M STAFF AS NECESSARY-#DEVELOP A PRELIMINARY</p>						

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			<p>INTEGRITY MANAGEMENT PLAN (IMP) FOR EACH TYPICAL GAS TURBINE CONSIDERING POTENTIAL THREATS AND FAILURE MECHANISMS AS PER THE CODES AND BASED ON BEST INTERNATIONAL ENGINEERING PRACTICES APPLICABLE WITH BASELINE DATA FOR STATION/GT/PRESSURE VESSELS/EQUIPMENT/PIPING WISE.-#DEVELOP A DETAILED LIST OF PIPING, EQUIPMENT AND VALVES WITH RELEVANT DETAILS.-#A COMPREHENSIVE RISK ASSESSMENT SHALL BE MADE AFTER IDENTIFYING POTENTIAL IMPACT FROM THE IDENTIFIED THREATS PRIOR TO PREPARING THE PRELIMINARY INTEGRITY MANAGEMENT PLAN (IMP).-#DEVELOP CRITERIA FOR INSPECTION & TYPE OF INSPECTIONS REQUIRED AS PER THE APPLICABLE STANDARDS AND PRACTICES.-#DEVELOP ISOMETRIC SKETCHES FOR THE SYSTEMS TO BE INSPECTED AND MARKED WITH CML MARKINGS ON THE-#-#SKETCHES. MAKE PERMANENT</p>						

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			TML/CML MARKING AT CORRESPONDING LOCATIONSOF PIPING & EQUIPMENT FOR FUTURE REFERENCE.-#THE INSPECTION PROCESS SHALL INCLUDE 100% VISUAL INSPECTION INADDITION TO DE/NDE TESTS AS APPLICABLE AS PER APPLICABLE STANDARDS.-#THE QUANTITY AND TYPE OF THE DE/NDE TESTS CONSIDERED FOR PREPARING ANINSPECTION PLAN SHALL BE ADEQUATE TO MEET 100% INTEGRITY ASSESSMENT OFEQUIPMENT OR PIPING UNDER THE INVESTIGATION IN ACCORDANCE WITH THEREQUIREMENT OF APPLICABLE INTERNATIONAL STANDARDS.-#THE QUANTITY AND TYPE OF INSPECTION SERVICES PROPOSED SHALL BESUBJECT TO APPROVAL OF DEWA.PHASE-2, INSPECTION SERVICES-#CONDUCT INSPECTIONS AS PER THE PRELIMINARY INTEGRITY MANAGEMENT PLAN,INSPECTION TEST PLAN AND TML/CML MARKED ISOMETRIC DRAWINGS OR SKETCHES.-#INSPECTION SERVIC						

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			ES SHALL INCLUDE 100% VISUAL INSPECTION OF ALLSYSTEMS, EQUIPMENT AND PIPING COVERED UNDER THE SCOPE OF WORKS.-#DEVELOP INSPECTION RE PORTS FOR EACH SYSTEM, EQUIPMENT AND PIPINGINCLUDING EXCEL SHEETS WITH ALL DATA COLLECTED AGAINST EACH ITEMACCORDANCE WITH APPROVED INSPECTION TEST PLAN.###PHASE-3, EVALUATION & FIT FOR SERVICE REPORTS-#EVALUATION OF THE INSPECTION DATA TO IDENTIFY THE POTENTIAL F LAWS ORDEFECTS IF ANY THAT WILL ADVERSELY AFFECT SAFETY AND RELIABILITY OF THESYSTEM DURING ITS REMAINING SERVICE LIFE.-#DETERMINE R EMAINING SAFE AND RELIABLE OPERATIONAL LIFE (REMAININGLIFE ASSESSMENT) OF EACH SYSTEM, PIPING OR EQUIPMENT COVERED UNDER THECONTRACT AND-#PREPARE FIT FOR SERVICE (FFS) REPORT. THE DATA COLLECTED SHALL BEANALYZED SHALL BE BASED ON INTERNATIONAL APPLICABLE CODES						

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			<p>AND STANDARDSSUCH AS API 579 FOR THE FIT FOR SERVICE ASSESSMENT. THE REPORT SHALLCONTAIN DETAILED SUPPORTING CALCULATIONS.-#WHEREVER RE MAINING LIFE IS LESS THAN 10 YEARS CONTRACTOR SHALLPROPOSE CORRECTIVE MEASURES TO EXTEND THE LIFE OF THE AFFECTED SYSTEMTILL DESIGN END LIFE OF THE CORRESPONDING GTS.-#RE-EVALUATION OF THE SYSTEMS AFTER CORRECTING RECTIFYING THE FLAWS. THE IMPLEMENTATION OF CORREC TIVE MEASURES AND ADDITIONAL TESTING IFREQUIRED AFTER CORRECTIVE MEASURES ARE NOT COVERED UNDER THE SCOPE OFTHIS CONTRACT. HOWEVER, IMP SHALL CONSIDER THE IMPLEMENTATION OFCORRECTIVE MEASURES.PHASE-4, DEVELOP FINAL INTEGRITY MANAGEMENT PLAN-#UNDER THIS PHASE, PREL IMINARY IMP TO BE REVISED AFTER CONSIDERINGCURRENT INTEGRITY LEVEL SYSTEM</p>						

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			<p>BASED ON THE INSPECTION AND ASSESSMENT.-#THE FINAL IMP SHALL ALSO CONSIDER THE INTEGRITY OF THE SYSTEM AFTER CORRECTIVE MEASURES IF ANY ARE FOUND REQUIRED DURING EVALUATION PHASE.-#THE FINAL IMP SHALL HAVE COMPREHENSIVE REMAINING LIFE DETAILS OF ALL SYSTEMS, PIPING, EQUIPMENT COVERED.-#UNDER THE SCOPE OF WORKS TOGETHER WITH RECOMMENDATION FOR NEXT INSPECTION DUE DATE. THE CONTRACTOR SHALL PROVIDE THE SERVICES OF EXPERIENCED AND CERTIFIED INSPECTORS AS PER THE REQUIREMENTS OF RELEVANT CODES FOR ALL FOUR PHASES OF THE PROJECT. 5.#GENERAL SPECIFICATION FOR SITE WORKS NO OFFICE OR ACCOMMODATION SHALL BE PROVIDED TO THE CONTRACTOR BY DEWA. THE CONTRACTOR IS EXPECTED TO MAKE HIS OWN ARRANGEMENT FOR THIS. NO STAFF OR VEHICLES OF THE CONTRACTOR WILL BE PERMITTED TO</p>						

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			STAY IN DEWAPREMISES AFTER THE CLOSING OF THE DAY, UNLESS APPROVED BY DEWA ON ADAILY BASI S.THE						

TOTAL AMOUNT IN WORDS:

TOTAL AMOUNT:

SPECIAL NOTES / INSTRUCTIONS:

E'STATION, GT1to5 NG,LFO,AIR AND WATER,ALL PIPELINE INTEGRITY TEST FOR FOR FRAME 9E GASTURBINE
PLEASE REFER TO ATTACHED TECHNICAL SPECIFICATION AND DRAWING.

FOR FURTHER DETAILS, PLEASE CONTACT ASM MYNUDDIN (0503620814)
MYNUDDIN.HOSSAIN@DEWA.GOV.AE/MARWAN AL MHEIRI (0501136322) (MARWAN.ALM HEIRI@DEWA.GOV.AE)/AHMED ZAKARIA(0524781810)ahmed.eldaly@dewa.gov.ae

STANDARD TERMS & CONDITIONS

- 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

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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