



## REQUEST FOR QUOTATION LOCAL PURCHASE SECTION

**RFQ NUMBER** : 2331901797  
**DATE** : 05.08.2019  
**REQ No** : 1031902510  
**REQ TITLE** : Job 1031902510 Integrity test  
**DELIVERY LOCATION** : 0018 - LII STORE  
**CLOSING DATE** : 22.08.2019  
**CLOSING TIME** : 10:00:00

SL NO	ITEM CODE	SERVICE ID	DESCRIPTION	QTY	UOM	BRAND/ORIGIN	WARRANTY	UNIT PRICE	TOTAL PRICE
1		ITEM-00001	#18   PAGE INTEGRITY INSPECTION OF HIGH PRESSURE STEAM PIPING AT L2# STATIONS, DEWA, JEBEL ALI TECHNICAL SPECIFICATION1.#INTRODUCTION: 1.1.#DUBAI ELECTRICITY & WATER AUTHORITY (DEWA) IS THE OWNER AND OPERATOR OF 9,646 MW OF ELECTRICITY GENERATION AND 470 MIGD OF DESALINE WATER PRODUCTION PLANTS, OWNS, AND OPERATES ALL TRANSMISSION AND DISTRIBUTION NETWORKS IN THE EMIRATES OF DUBAI. 1.2.#DEWA GENERATE POWER USING NATURAL GAS (NG) AND / OR FUEL OILS (DFO AND / OR MFO) DELIVERED TO EITHER BOILERS AND OR GAS TURBINES. P2 STATIONS COMPRISE OF 16 HRSGS (HEAT RECOVERY STEAM GENERATORS/BOILERS), 16 GTS (GAS TURBINES), 7 AUX BOILERS AND 9 STEAM TURBINES. 1.3.#GENERATION DIVISION OF DEWA OPERATES AND PROVIDES MAINTENANCE, REPAIR AND OVERHAUL SERVICES FOR POWER GENERATION	1	G01				



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			<p>AND WATER PRODUCTION PLANTS IN DEWA. SAFETY, AVAILABILITY, RELIABILITY AND COST HAVE ALWAYS BEEN THE MOST IMPORTANT PRIORITIES IN DEWA.</p> <p>1.4.#IN DEWA, L-2 STATION HAVING STEAM PIPING MANUFACTURED &amp; SUPPLIED BY M/S NEM , NETHERLAND. AND ERECTED BY M/S HYUNDAI.</p> <p>1.5. #DEWA INTENDS TO APPOINT A COMPETENT BOILER OEM /PIPING INSPECTION AGENCY HAVING A LEGAL STANDING AS PER LOCAL REGULATIONS, THE CAPABILITY AND EXTENSIVE PAST EXPERIENCE IN PIPING INTEGRITY ASSESSMENT TO CARRY OUT INTEGRITY ASSESSMENT &amp; REMAINING LIFE ASSESSMENT OF ALL STEAM PIPING (DIA MORE THAN-80MM AND WORKING PRESSURE MORE 0.5 BAR) AT #L-2# STATION TO EVALUATE THE PRESENT CONDITION OF THE PIPING COMPLIANCE TO EIAC #RQ-1B-004 AND IN LINE WITH ASME B31.8S, API 580/581, API 571 B31.8, B31.4, API 579, API 1163, AND NACE A</p>						



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			<p>S APPLICABLE. 2.#PHYSICAL BOUNDARY:                  2.1.#PHYSICAL BOUNDARY OF THIS SCOPE OF WORK SHALL INCLUDE BUT NOT LIMITED TO THE EXTERNAL VISUAL INSPECTION OF ALL STEAM PIPING &amp; VALVES , VISUAL INSPECTION OF ACCESSIBLE HANGERS, SUPPORTS &amp; RESTRAINTS FOR ANY DISTORTION, SCALING, OVER TRAVELLED ETC. AND SAFETY VALVE SILENCERS.. 2.2.#COMPONENTS / AREA COVERED IN EIA #RQ-1B-004, ASME BPVC SECTION I, SECTION VIII AND OR THE PRESSURE BOUNDARY AS PER THE ORIGINAL CODE OF CONSTRUCTION AS EXPLAINED IN #SCOPE OF WORK# AND ELSEWHERE IN THIS DOCUMENT ALSO BE A PART OF PHYSICAL BOUNDARY. 2.3.#THE PHYSICAL BOUNDARY INCLUDES ALL STEAM PIPING STARTING FROM HRSG &amp; AUX BOILER MAIN STEAM OUTLET VALVE (ONE AUX BOILER &amp; FOUR HRSG#S ) TO INLET OF STEAM TURBINE ( INCLUDES BUT NOT LIMITED TO HP HEADER</p>						



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			<p>PIPING, START            UP HEADER PIPING, HP/IP &amp; HP/LP BYPASS            SYSTEM INLET PIPING) AND FROM OUT LET OF            STEAM TURBINE TO INLET OF HRSG AND DESAL            PLANT (INC            LUDES BUT NOT LIMITED TO HP/IP &amp; HP/LP BYPASS            SYSTEM PIPING, IP &amp; LP EXTRACTION PIPING,            CONDENSATE PIPING &amp; FEED WATER SPRAY            PIPING)            . PIPING HAVING DIAMETER GREATER THAN 80 NB            AND PRESSURE MORE THAN 0.5 BAR SHALL BE            CONSIDERED FOR THE INTEGRITY INSPECTION.            2.4.#PA            RTY HAS TO VISIT THE SITE FOR PHYSICAL            VERIFICATION OF THE LINES AS MENTIONED            ABOVE TO QUANTIFY THE VOLUME OF JOB            BEFORE SUBMITTING            THEIR OFFER. 3.#INSPECTION COMPONENTS: THE            COMPONENTS TO BE INSPECTED FOR AUX            BOILERS SHALL INCLUDE BUT NOT LIMITED TO THE            FOLLOWIN            G: 3.1.#PIPING 3.2.#BENDS 3.3.#REDUCERS 3.4.#T#S            AND BRANCHES 3.5.#VALVES 3.6.#SAFETY VALVES</p>						



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			<p>3.7.#HANGERS AND SUPPORTS 3.8.#SILENCER            S 4.#SCOPE OF WORK: THE MAIN OBJECTIVE OF THIS TENDER IS TO ACCOMPLISH THE FOLLOWING:            4.1.#THE SCOPE OF WORKS UNDER THIS CONTRACT I            S TO CARRY OUT INTEGRITY ASSESSMENT FOR STEAM PIPING #L-2# STATION IN DEWA PLANT-2.            4.2.#INTEGRITY ASSESSMENT OF PIPING IN COMPLIANC            E TO LOCAL REGULATION EIAC #RQ-1B-004, ASME BPVC SECTION -1, SECTION VIII DIV 1 AND / OR THE PRESSURE BOUNDARY AS PER THE ORIGINAL C            ODE OF CONSTRUCTION WITHOUT ANY AMBIGUITY. 4.3.#TO ENSURE THE INTEGRITY OF PIPING BY CERTIFYING THE PRESSURE BOUNDARIES ARE FREE FRO            M FLAWS OR TO REPORT ACTUAL CONDITION OF THE PIPING INCLUDING REMEDIAL ACTION REQUIRED TO CERTIFY THE BOILERS AS PER THE LOCAL REGUL            ATIONS REQUIREMENT. 4.4.#IF FLAWS ARE IDENTIFIED DURING INSPECTIONS, DETERMINE THE DAMAGE MECHANISM AND CALCULATE HOW</p>						



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			<p>LONG THE COMPO  NENTS CONTAINING FLAWS CAN BE OPERATED  SAFELY. 4.5.#ESTABLISH BASELINE DATA FOR  BOILER PRESSURE COMPONENTS.  4.6.#DETERMINE FUTURE IN  SPECTION REGIME. 4.7.#TO PROVIDE SERVICES OF  EXPERIENCED AND CERTIFIED INSPECTORS.  4.8.#ALL EQUIPMENT NECESSARY TO EXECUTE  INSPECTIO  N AND MEASUREMENT SHALL BE THE SCOPE OF  CONTRACTOR. 4.9.#THE CONTRACTOR SHALL  COMPLY WITH LOCAL REGULATION EIAC  #RQ-1B-004, API 570,  API 571, API 579, BS 7910, EPRI, ASME &amp; CODES  AND STANDARD AS APPLICABLE. 4.10.#INTEGRITY  INSPECTION OF #PRESSURE EQUIPMENT / SYSTE  MS# SHALL INCLUDE BUT NOT LIMITED TO THE  FOLLOWING: 4.10.1.#IDENTIFICATION OF ALL  CRITICAL COMPONENTS AND AREAS  4.10.2.#DETAILED VIS  UAL INSPECTION OF ALL CRITICAL COMPONENTS.  4.10.3.#CHECKING OF TOLERANCES FOR WEAR  LIMIT FOR CRITICAL COMPONENTS;</p>						



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			<p>4.10.4.#CHECKIN            G FOR CORROSION 4.10.5.#NON-DESTRUCTIVE EXAMINATION (NDE) FOR THE CRITICAL OR HIGH STRESS AREAS OF THE PRESSURE EQUIPMENT SUCH AS CONNECTIONS, WELDMENTS, AND HEAT AFFECTED ZONES FOR EVIDENCE OF CRACKING OR OTHER DEFECT 4.11.#CONTRACTOR SHALL CARRY OUT INTEGRITY ASSESSMENT, RLA &amp; FFS ACCORDING TO THE FOLLOWINGS 4.11.1.# DESKTOP STUDY:            4.11.1.1.#IDENTIFICATION OF ALL THE REQUIRED COMPONENTS AND AREAS ON THE PIPING FOR INTEGRITY TEST.            4.11.1.2.#COLLECTION OF ORIGINAL DATA REGARDING ORIGINAL DESIGN AND CONSTRUCTION DOCUMENTS, THE MATERIAL OF CONSTRUCTION, SERVICE HISTORY AND THE PROCESS CONDITIONS.            4.11.1.3.#DEVELOP INTEGRITY MANAGEMENT PLAN (IMP) 4.1            1.1.4.#PREPARE INSPECTION TEST PROTOCOL (ITP) TO IMPLEMENT IMP AND TO COLLECT NDE</p>						



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			<p>DATA ON PRESENT CONDITION OF THE ASSETS UNDER SCOP</p> <p>E. 4.11.1.5.#ITP SHALL HAVE NECESSARY INSPECTION-RELATED INFORMATION DETAILING FOR ALL THE COMPONENTS/STRUCTURES LIKE COMPONENT NAME</p> <p>/ AREA, DAMAGE MECHANISM LOOKING FOR, INSPECTION TECHNIQUE TO BE USED WITHOUT ANY EXCEPTION AND ANY SPECIAL REQUIREMENT.</p> <p>4.11.1.6.#</p> <p>A MARKUP DRAWING SHALL BE PREPARED SHOWING ALL THE CML LOCATIONS. A UNIQUE IDENTIFICATION HAS TO BE DEVELOPED FOR CMLS. COPY OF EXISTING ISOMETRIC DRAWINGS SHALL BE USED TO MARK CML POINTS. IF ISOMETRIC DRAWINGS ARE NOT AVAILABLE, A LEGIBLE SKETCH SHALL BE PREPARED FOR CML MARKING BY THE CONTRACTOR. DEWA WILL REMOVE THE INSULATIONS FROM THE CML POINTS AS MARKED BY THE CONTRACTOR.</p> <p>4.11.1.7.#DET</p> <p>ERMINE CRITICAL COMPONENTS IN THE UNIT FOR</p>						





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			<p>DESTRUCTIVE &amp; NON-DESTRUCTIVE TESTS            4.11.1.8.#ESTABLISH INSPECTION PLAN AND INTEGRATE THE ACTIVITIES ALONG WITH DEWA ANNUAL OVERHAUL INSPECTION PLAN OF THE BOILER.            4.11.1.9.#REVIEWING CONSTRUCTION CERTIFICATE, DRAWINGS AND CONSTRUCTION INSPECTION RECORDS.            4.11.1.10.#REVIEWING REPAIRS AND/OR ALTERATIONS CARRIED OUT SO FAR AND REVIEW OF THOSE RECORDS INCLUDING PAST PERIODIC INSPECTION RECORDS.            4.11.1.11.#EXTERNAL VISUAL EXAMINATION (HOT SURVEY) OF THE SPECIFIED COMPONENTS, COLLECTING DATA SUCH AS, CHECKING NOISE LEVEL/ VIBRATIONS AND DOCUMENT THE PRESENT CONDITION OF THE EQUIPMENT AS OBSERVED. THIS WILL INCLUDE, BUT NOT LIMITED TO NOTING ALL HANGER POSITIONS AND CONDITIONS ON STEAM, CONDENSATE, FEED WATER PIPING, ETC.            4.11.1.12.#INSPECTION</p>						



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			<p>OF HANGERS AND SUPPORTS HOT CONDITIONS.            4.11.1.13.#VISUAL SURVEY FOR VIBRATION OF THE STRUCTURES. 4.11.1.14.#VALVES VISUAL INSPECTIO            N FOR ANY LEAKAGES/ PASSING. 4.11.1.15.#SUBMIT FAILURE MECHANISM &amp; TEST METHODOLOGIES FOR DEWA APPROVAL PRIOR TO IMPLEMENT ACTION OF            THE INSPECTION/TEST PLAN FOR ALL THE EQUIPMENT#S. 4.11.1.16.#IMPLEMENT INSPECTION METHODOLOGIES. 4.11.1.17.#CONTRACTOR SHALL FORECA            ST EQUIPMENT FAILURE OR BREAK DOWN AT PRESENT CONDITION OR EXPECTED DUE TO AGEING OR DETERIORATION.            4.11.1.18.#CONTRACTOR SHALL CLEARLY IDENTIFY ROOT CAUSE OF DEFECT IF OTHER THAN DETERIORATION OR AGEING (AS REQUIRED) AND ENSURE ALL THE NEEDED DATA ARE OBTAINED DU            RING OUTAGE. 4.11.2.#ON SITE NDE DATA COLLECTION: 4.11.2.1.#ALL THE PLANNED INSPECTIONS SHALL BE DONE WITHIN THE</p>						



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			SCHEDULED PERIOD OF TOTAL OUTAGE OF THE STATION (TENTATIVELY 05 DAYS) INCLUDING SHUTDOWN, DEPRESSURIZING & COOLING. 4.11.2.2.#CONDITION MONITOR						

TOTAL AMOUNT IN WORDS:

TOTAL AMOUNT:

**SPECIAL NOTES / INSTRUCTIONS:**

Integrity Test, remaining life assessment and certification for fitness for service for steam pipelines at L-2 MBR.

**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
- 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.



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**SUPPLIER'S REMARKS :**

**SUPPLIER'S SIGNATURE AND STAMP**