

MANIFA PRODUCING DEPARTMENT

MANIFA MAINTENANCE DIVISION

Maintenance Support Unit

Admin Building (Bldg. # 1026), Floor 1, Room # 201, Manifa

Phone: 379-5426

October 08th, 2017

SCOPE OF WORK

1. JOB TITLE:

To install the catch beams at ATM and HP compressors pipelines.

2. WORK LOCATIONS:

Gas Gathering Area Q35.

3. DURATION OF WORK:

Six Months.

4. PAYMENT METHOD:

Lump-Sum.

5. GENERAL SCOPE OF WORK:

- 5.1 Prior to start of work, the Contractor shall secure work permits in accordance with the requirements of GI-2.100 "Work Permit System". A copy of this work permit shall be kept on full display at the job site throughout the duration of the work, as required by this GI.
- 5.2 All data and dimensions shown in this document are for guidance and the Contractor may vary them only after consulting with Saudi Aramco Safaniya Design Unit and getting approval in writing. It is the Contractor responsibility to field verifies all information presented to him.
- 5.3 The Contractor shall coordinate the starting of the job before commencing construction work and shall schedule work activities with Company Representative to minimize shutdown duration.
- 5.4 The Contractor shall provide protection to existing structure, equipment and piping against damage. Should any damage occur, the Contractor shall take immediate measure to inform Aramco representative and repair the damage to return the existing facilities to their original condition.
- 5.5 The Contractor shall observe and follow all requirements of applicable Saudi Aramco Standards and Specifications for the construction and installation of the facilities including "Saudi Aramco Safety, Health and Environmental Requirements", schedule D.
- 5.6 The Contractor shall keep the construction area clean and walkways clear of construction and other debris. Upon completion of work, all debris and waste shall be picked up and properly disposed of in a manner approved by the company representative.

6. DETAILED SCOPE OF WORK:

- 6.1 The contractor shall perform all surveys necessary to enable the construction of the project in accordance with the scope of work and project drawings.
- 6.2 The locations of the additional pipe support beams are given in drawings RA- 849958 sheet 002, RA-849959 sheet 002, RA-849961 sheet 003 and RA-849962 sheet 003.
- 6.3 The Contractor shall fabricate and install the additional pipe support steel beams and bring them to their respective sites in accordance with drawings RA-849958 sheet 002, RA-849959 sheet 002, RA-849961 sheet 003 and RA-849962 sheet 003.
- 6.4 The Contractor shall fire proof the steel beams in accordance with details shown in drawings RA-849958 sheet 002, RA-849959 sheet 002, RA-849961 sheet 003, RA- 849962 sheet 003 and standard drawing AD-036711 sheet 001.
- 6.5 The additional steel beams shall be coated in accordance with the requirements of Painting Specification SAES-H-101 and SAES-H-002, APCS-4 for carbon steel piping.

7. DRAWINGS



8. Contractor RESPONSIBILITIES:

1. Contractor Personnel:

- 1- CONTRACTOR to conduct a site visit to assess the condition and to discuss all the contractor concerns.
- 2- Provide technical advice and procedure for installation, cutting and welding the catch beams.
- 3- CONTRACTOR shall provide a daily report for the project to SAUDI ARAMCO and every shift is 12 hours.
- 4- CONTRACTOR shall work day shift till complete the task.
- 5- CONTRACTOR to mobilize & demobilize manpower, materials and resources to Manifa yard.
- 6- CONTRACTOR to store each removed equipment in dedicated location with supervision from SAUDI ARAMCO.
- 7- CONTRACTOR shall provide required manpower, equipment and transportation to perform the job.
- 8- CONTRACTOR shall ensure to provide required equipment and tools SUIT this job.
- 9- CONTRACTOR shall provide CERTIFIED WORK PERMIT RECEIVER with English speaking.
- 10- CONTRACTOR to ensure all crew are equipped with the safety and hazard PPE including FRC.
- 11- SAUDI ARAMCO to provide safety orientation to the CONTRACTOR crew.

- 12- SAUDI ARAMCO will arrange with inspection to inspect prior, during and after completion of the job.
- 13- CONTRACTOR to ensure all logistics, food, accommodation provided to the contractor crew.
- 14- CONTRACTOR to perform housekeeping and ensure area is clean during and after job completion.
- 15- CONTRACTOR to provide all consumable materials and accessories related to the job scope.

2. **Contractor Job Site Responsibility:**

- a) Contractor shall obtain required Work Permits from SAUDI ARAMCO.
- b) The establishment or construction of all Contractor work related storage areas and temporary structures on or adjacent to SAUDI ARAMCO premises shall be authorized in advance by the COMPANY Representative and shall be confined to areas specified therefore by him. Authorized temporary structures shall be constructed only with labor and material provided by Contractor at its own expense.
- c) Contractor shall protect from damage all existing structures, improvements or utilities at or near the job site, and shall repair any damages there resulting from Contractor failure to exercise reasonable care. All repairs and restorations incurred shall be at Contractor expense.
- d) Contractor shall at all times keep the job site neat, clean and free of waste material or rubbish.
- e) Contractor shall, upon completion of the work, at its expense, remove from the job site all equipment, temporary structures, rubbish and unused materials and leave the job site neat and clean in a satisfactory manner to the COMPANY Representative.
- f) The Contractor shall provide a lay down yard for the storage of materials, tools, and equipment to a place designated by the COMPANY Representative.
- g) CONTRACTOR shall adjust to SAUDI ARAMCO operations requirements.
- h) CONTRACTOR shall conduct all necessary equipment inspection and quality control
- i) Operations and record them on SAUDI ARAMCO approves inspection/quality control record sheet. These operations shall include all necessary checks including measurements, reading, rest, materials, analysis and collection of data
- j) CONTRACTOR shall highlight any items which fall outside acceptable tolerances and standards on inspection/quality control record sheets.
- k) CONTRACTOR shall maintain the site housekeeping on daily basis.
- l) SAUDI ARAMCO has the right to add additional scope or De-scope or cancel the SFC.

3. **CONTRACTOR MANPOWER:**

- The Contractor shall at all times employ sufficient skilled labor in accordance with Aramco standard; and the proper equipment for completing the required tasks in the manner and time required by the Contract.
- All equipment that is to be used shall be of sufficient size and in such mechanical condition as to produce a satisfactory quality of work.
- Any person employed by the Contractor, who does not perform their work in a proper manner or is intemperate or disorderly shall, at the written request of the Contract, be removed from the work site by the Contractor and shall not be employed again in any portion of the work without the approval of the Contract.

- Should the Contractor fail to remove such person as required above, or fail to furnish suitable and sufficient personnel for the proper execution of the work, the Contractor may suspend the work by written notice until such orders are followed by the Contractor.
- The Contractor shall hold the Department harmless from damages or claims for compensation that may occur in the enforcement of this section.
- The Contractor will supervise and direct all work.
- The Contractor will be solely responsible for the means, methods, and safety practices of the employees, subcontractors, techniques, sequences, and procedures when performing work.
- The Contractor will employ and maintain on the work site a qualified working Supervisor who shall have been designated in writing by the Contractor as the Contractors' representative.
- The Supervisor shall have full authority to act on the behalf of the Contractor and all communications given to the Supervisor shall be binding as if given to the Contractor. The Supervisor shall be present on site at all times as required to perform adequate supervision and coordination of the work.

4. **Contractor Work Responsibilities:**

- a) Ensure that materials and equipment /tools supplied by Contractor and incorporated into the WORK are in accordance and compliance with the latest SAUDI ARAMCO Standards, Industry Standards, specifications and Scope of Work.
- b) Provide Company Representative with access to all information pertaining to the WORK for appraisal of Contractor's performance and when requested by SAUDI ARAMCO. This shall include but not be limited to: providing copies of calculations; working drawings, specifications, purchase requisitions, schedules, procedures and alternative studies.
- c) Contractor shall have a regular Work Schedule of sixty (60) hours per week, ten (10) hours per day from 06:30 to 16:30 including one (1) hour break for lunch, six (6) days per week, excluding Fridays and SAUDI ARAMCO-designated Contractor holidays. Also, Contractor shall establish with the Company Representative the supervisory and management personnel coverage for the WORK prior to commencement of the WORK. For any deviations from the established working hours, Contractor and Company Representative shall jointly agree on the new working hours.
- d) Confirm in writing receipt and understanding of all verbal instruction or operational agreements communicated between SAUDI ARAMCO and Contractor before such instructions or agreements are implemented.
- e) Provide copies of all material specifications, test data, catalogues and vendor drawings to Company Representative for review and approval for a period of three (3) weeks prior to purchase.
- f) Contractor shall submit resumes for proposed candidates for these key personnel positions, described above, to Company Representative for a period of one (1) week for review and written approval prior to their assignment to the WORK. SAUDI ARAMCO has the sole right to reject or accept the resumes submitted by the contractors.

5. GENERAL REQUIREMENTS:

- Contractor shall start all the work specified in the scope within one (2) weeks of the awarded date. The duration of the contract is 6 months.
- Prior to commencement of work the contractor shall visit the site to familiarize himself with the site conditions and verify the extent of the work involved. Failure to comply with aforementioned shall be the responsibility of the contractor.
- The contractor shall be aware that the location of this work lies within the confines of the above-mentioned locations. All gate passes for manpower and permission for entry / removal of equipment / material must be obtained from the Operations authorities prior to any movement of plant or material.
- The contractor shall coordinate with Maintenance Representative and plan the work to minimize the disturbance of plant operations.
- Contractor shall not perform any work that will increase the value of the SFC without writing approval from Saudi Aramco.
- Contractor shall submit a quotation in Saudi Riyal under this Short Form Contract.
- Contractor must submit technical and commercial bid proposal separately for this contract.
- The contractor shall follow all safety rules and regulations within the Saudi Aramco and relating to contractor's personnel/equipment shall be adhered to.
- The contractor should submit progress report for the completed assigned job signed off and approved by the authorized person of this contract.
- The contractor shall keep the work area clean and tidy during the work and remove all excess material and debris from the site upon completion of the work to the satisfaction of Saudi Aramco representative.
- The Contractor must invite inspection Unit to the site before and after starting any critical activity.

6. CONTRACTOR SAFETY AND LOSS PREVENTION REMARKS:

- a) Contractor shall at all times comply with, and ensure that its employees comply with, all SAUDI ARAMCO Safety and Loss Prevention rules and regulations.
- b) Contractor shall be fully responsible for WORK Site safety, security and implementation of positive accident prevention measures in accordance with SAUDI ARAMCO Construction Safety Manual.
- c) Contractor shall produce a detailed Loss Prevention Program, not only addressing safety in general terms but the specific needs of each phase of WORK including a detailed Hazard Identification Plan.
- d) Contractor shall comply with all safety procedures as per SMS.

7. SITE RESTORATION

- a) Contractor shall be responsible for restoring all surfaces to their original condition before the final acceptance by Company Representative.
- b) Within five (5) SAUDI ARAMCO Working Days of Mechanical Completion of all WORK Contractor shall remove all construction debris, environmental harmful materials, and excess soil from the WORK Site to a dumpsite approved by the Company Representative.
- c) Contractor shall restore, to the exact original location, all survey monuments, marks and stakes, which shall be temporarily removed to efficiently perform the WORK as directed by Company Representative.

PREPARED BY:


Mohannad Mosa, Maintenance Engineer

REVIEWED BY:


Ibrahim Gabgab, Supervisor MSU

APPROVED BY:


Abdallah Jamea, Division Head MMD (A)



SAUDI ARABIAN OIL COMPANY

SCOPE OF WORK
ISSUED FOR CONSTRUCTION

FOR

INSTALL CATCH BEAMS FOR ATM & HP COMPRESSORS

FACILITY AT MANIFA PLANT

EDR No: 4040850203

PLANT Q35

DISCIPLINE
ENGINEER
DMS

DATE FEB '16

PROJECT
ENGINEER
DMS

DATE FEB '16

CERTIFIED
FBA

DATE FEB '16

CONSTRUCTION
AGENCY

DATE

OPERATIONS

DATE

EDSD
VERIFICATION

CONTROL NUMBER

BY

DATE

STSD/SAFANIYA DESIGN UNIT

BOX 529, TANAJIB CENTRAL

SAUDI ARAMCO

REVISION CERTIFICATION

THIS INDICATES THAT REV NO 00

OF THIS DRAWING IS COVERED, FOR ALL

APPROVAL/CERTIFICATION REQUIREMENTS.

BY DRAWING COMPLETION CERTIFICATE

(DCC) NO 15F157

Saudi Aramco: Company General Use

SCOPE OF WORK	DWG. TYPE	PLANT NO.	INDEX	DRAWING NO.	SHT. NO.	REV. NO.
INSTALL CATCH BEAMS FOR ATM & HP COMPRESSORS	DOC	Q35	A	RE-865171	1 of 4	0
GAS GATHERING & FLARES						
MANIFA	SAUDI ARABIA	JO / EWO:	4040850203		EDSD/2616-0399.doc	

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<p>1.0 PROJECT SUMMARY:</p> <p>1.1 This Scope of Work, together with relevant drawings, applicable Saudi Aramco Engineering Standards and Standard Drawings constitute the basis for the fabrication and installation of catch beams for the ATM & HP compressors at the gas gathering and flares at Manifa Facilities, Plant Q35. This is needed as a safety item highlighted by the LPD.</p> <p>2.0 DRAWINGS AND DOCUMENTATION:</p> <p>The drawings issued with this scope of work are listed on the Drawing Control RD-865170.</p> <p>3.0 CODES, STANDARDS, AND SPECIFICATIONS:</p> <p>3.1 Industry Codes, Standards and Specifications</p> <p>The work shall be performed in accordance with the following Industry Standards in concurrence with the Saudi Aramco Standards and Specifications:</p> <table border="0"> <thead> <tr> <th>Standard Number</th> <th>Title</th> </tr> </thead> <tbody> <tr> <td>ACI</td> <td>American Concrete Institute</td> </tr> <tr> <td>AWS</td> <td>American Welding Society</td> </tr> <tr> <td>AISC</td> <td>American Institute of Steel Construction</td> </tr> <tr> <td>AISI</td> <td>American Iron and Steel Institute</td> </tr> <tr> <td>ASCE</td> <td>American Society of Civil Engineers</td> </tr> <tr> <td>ASTM</td> <td>American Society for Testing Materials</td> </tr> <tr> <td>SACSM</td> <td>Saudi Aramco Construction Safety Manual</td> </tr> <tr> <td>SASO</td> <td>Saudi Arabia Standards Organisation</td> </tr> </tbody> </table> <p>3.2 Saudi Aramco Standards, Specifications and General Instructions</p> <p>All work shall be provided in accordance with the latest edition of Saudi Aramco Engineering Standards and Specifications. In case of conflicts with other standards/specifications the more stringent requirement shall prevail.</p> <table border="0"> <thead> <tr> <th>Standard Number</th> <th>Title</th> </tr> </thead> <tbody> <tr> <td>SAES-H-101</td> <td>Approved Protective Coating Systems</td> </tr> <tr> <td>SAES-H-102</td> <td>Safety Requirements for Painting</td> </tr> <tr> <td>SAES-M-001</td> <td>Structural Design Criteria for Non-Building Structures</td> </tr> <tr> <td>SAES-M-100</td> <td>Saudi Aramco Building Code</td> </tr> <tr> <td>SAES-O-119</td> <td>Work Permit Procedures</td> </tr> <tr> <td>SAEP-321</td> <td>Performance Qualification Testing and Certification of Saudi Aramco Welders</td> </tr> <tr> <td>09-SAMSS-088</td> <td>Aggregates for Concrete</td> </tr> <tr> <td>09-SAMSS-097</td> <td>Ready-mixed Portland cement Concrete</td> </tr> <tr> <td>09-SAMSS-106</td> <td>Epoxy Coated Steel Reinforcing Bars</td> </tr> <tr> <td>GI-2.100</td> <td>Work Permit System</td> </tr> </tbody> </table> <p style="text-align: center;">Saudi Aramco: Company General Use</p> <table border="1"> <thead> <tr> <th>SCOPE OF WORK</th> <th>DWG. TYPE</th> <th>PLANT NO.</th> <th>INDEX</th> <th>DRAWING NO.</th> <th>SHT.NO.</th> <th>REV.NO.</th> </tr> </thead> <tbody> <tr> <td>INSTALL CATCH BEAMS FOR ATM & HP COMPRESSORS</td> <td rowspan="2">DOC</td> <td rowspan="2">Q35</td> <td rowspan="2">A</td> <td rowspan="2">RE-865171</td> <td rowspan="2">2 of 4</td> <td rowspan="2">0</td> </tr> <tr> <td>GAS GATHERING & FLARES</td> </tr> <tr> <td>MANIFA</td> <td>SAUDI ARABIA</td> <td>JO / EWO:</td> <td>4040850203</td> <td colspan="3">EDSD/2616-0399.doc</td> </tr> </tbody> </table>					Standard Number	Title	ACI	American Concrete Institute	AWS	American Welding Society	AISC	American Institute of Steel Construction	AISI	American Iron and Steel Institute	ASCE	American Society of Civil Engineers	ASTM	American Society for Testing Materials	SACSM	Saudi Aramco Construction Safety Manual	SASO	Saudi Arabia Standards Organisation	Standard Number	Title	SAES-H-101	Approved Protective Coating Systems	SAES-H-102	Safety Requirements for Painting	SAES-M-001	Structural Design Criteria for Non-Building Structures	SAES-M-100	Saudi Aramco Building Code	SAES-O-119	Work Permit Procedures	SAEP-321	Performance Qualification Testing and Certification of Saudi Aramco Welders	09-SAMSS-088	Aggregates for Concrete	09-SAMSS-097	Ready-mixed Portland cement Concrete	09-SAMSS-106	Epoxy Coated Steel Reinforcing Bars	GI-2.100	Work Permit System	SCOPE OF WORK	DWG. TYPE	PLANT NO.	INDEX	DRAWING NO.	SHT.NO.	REV.NO.	INSTALL CATCH BEAMS FOR ATM & HP COMPRESSORS	DOC	Q35	A	RE-865171	2 of 4	0	GAS GATHERING & FLARES	MANIFA	SAUDI ARABIA	JO / EWO:	4040850203	EDSD/2616-0399.doc		
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SAUDI ARABIAN OIL COMPANY

4.0 DETAILED SCOPE OF WORK:

4.1 General

- 4.1.1. Prior to start of work, the Contractor shall secure work permits in accordance with the requirements of GI-2.100 "Work Permit System". A copy of this work permit shall be kept on full display at the job site throughout the duration of the work, as required by this GI.
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- 4.1.3. The Contractor shall coordinate the starting of the job before commencing construction work and shall schedule work activities with Company Representative to minimize shutdown duration.
- 4.1.4. The Contractor shall provide protection to existing structure, equipment and piping against damage. Should any damage occur, the Contractor shall take immediate measure to inform Aramco representative and repair the damage to return the existing facilities to their original condition.
- 4.1.5. The Contractor shall observe and follow all requirements of applicable Saudi Aramco Standards and Specifications for the construction and installation of the facilities including "Saudi Aramco Safety, Health and Environmental Requirements", schedule D.
- 4.1.6. The Contractor shall keep the construction area clean and walkways clear of construction and other debris. Upon completion of work, all debris and waste shall be picked up and properly disposed of in a manner approved by the company representative.

4.2 Phase - 200 Civil/Structural

- 4.2.1. The contractor shall perform all surveys necessary to enable the construction of the project in accordance with the scope of work and project drawings.
- 4.2.2. The locations of the additional pipe support beams are given in drawings RA-849958 sheet 002, RA-849959 sheet 002, RA-849961 sheet 003 and RA-849962 sheet 003.
- 4.2.3. The Contractor shall fabricate and install the additional pipe support steel beams and bring them to their respective sites in accordance with drawings RA-849958 sheet 002, RA-849959 sheet 002, RA-849961 sheet 003 and RA-849962 sheet 003.
- 4.2.4. The Contractor shall fire proof the steel beams in accordance with details shown in drawings RA-849958 sheet 002, RA-849959 sheet 002, RA-849961 sheet 003, RA-849962 sheet 003 and standard drawing AD-036711 sheet 001.

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REVISION CERTIFICATION	THIS INDICATES THAT REV NO <u>00</u> OF THIS DRAWING IS COVERED FOR ALL APPROVAL/CERTIFICATION REQUIREMENTS BY DRAWING COMPLETION CERTIFICATE DCC NO 15F157	SCOPE OF WORK INSTALL CATCH BEAMS FOR ATM & HP COMPRESSORS GAS GATHERING & FLARES	DWG. TYPE DOC	PLANT NO.	INDEX	DRAWING NO.	SHT.NO.	REV.NO.
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SAUDI ARABIAN OIL COMPANY

REV NO	DATE	JO/EWO	ENG CERT	PMT	OPRNS
DESCRIPTION					
DISCIPLINE ENGINEER DMS					
DATE FEB '16					
PROJECT ENGINEER DMS					
DATE FEB '16					
CERTIFIED FBA					
DATE FEB '16					
CONSTRUCTION AGENCY					
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4.3 Phase - 600 Mechanical/Piping

4.3.1 No scope for mechanical design under this project.

4.4 Phase -700 Electrical

4.4. 1 No scope for electrical design under this project.

4.5 Phase -900 Painting

4.5.1 The additional steel beams shall be coated in accordance with the requirements of Painting Specification SAES-H-101 and SAES-H-002, APCS-4 for carbon steel piping.

5.0 MATERIALS

The Contractor shall identify any shortage of material as soon as possible to avoid construction delays. All materials used for the construction of the Radioactive Storage facility shall be approved by Saudi Aramco. The materials are listed in TO-849958.

6.0 AS-BUILT DRAWINGS

- 6.1 The Contractor shall keep a complete set of drawings and correct all drawing with any "As Built" changes that occur during their construction efforts.
- 6.2 Upon completion of the project, the Contractor shall submit to the Saudi Aramco representative a complete set of prints marked-up with all "As Built" changes or corrections.
- 6.3 These mark-ups shall be done in a professional manner utilizing "Green" color for all deletions and the "Red" color for all additions or changes.
- 6.4 These "As-Built" drawings shall be submitted to the Saudi Aramco Representative, typically the Area Engineer, within two weeks of project completion so these changes can be incorporated into the revision in the iPlant.
- 6.5 It is then the Area Engineer responsibility to issue the "As-Built" design request to properly document any changes.

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DRAWING CONTROL	DRAFTING OFFICE STD/SDU	PERIOD ENDING	DRAWING TITLES	DRAFTING SCHED		PROJECT NO DESIGN ENG	DMS/OM WGA	PLANT NO Q35	BUDGET TITLE	WORK ORDER NO	ENVO NO	JOB ORDER NO	
				START	COMPL								
DRAWING NUMBER	STL/SDU REV NO												
RD-865170	1	00	DRAWING CONTROL SHEET										
RE-865171	1 to 4	00	SCOPE OF WORK										
TO-849958	1	00	MATERIAL TAKE-OFF LIST										
			INDEX - A										
			INDEX - M										
RA-849956	2	01A	STRUCTURAL DETAILS / ELEVATION - (Q35-KM-0502)										
RA-849959	2	01A	STRUCTURAL DETAILS / ELEVATION - (Q35-KM-0504)										
RA-849961	3	01A	STRUCTURAL DETAILS / ELEVATION - (Q35-KM-0514)										
RA-849962	3	01A	STRUCTURAL DETAILS / ELEVATION - (Q35-KM-0518)										
			REFERENCE DRAWING										
AD-036711	001	09	CONCRETE FIREPROOFING FOR STRUCTURAL MEMBERS										
NOTES: 1) LIST DRAWINGS BY INDEX IN NUMERICAL ORDER 2) NORMALLY THE FIELD OF DRAWINGS CAN BE OBTAINED BY OPENING 2 TO 3 WEEKS TO THE SCHEDULED COMPLETION DATE ABOVE.										DRAWING CONTROL FOR INSTALL CATCH BEAMS			
										DWG TYPE	PLANT NO	INDEX	DRAWING NO
										DSC	Q35	A	R D - 865170
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STALL CATCH BE

Saudi Aramco: Company General Use



