
	<p>Toase-ehe Park Sanati Gohar Ofogh Petrochemical Co. CONCEPTUAL, BASIC and DETAIL DESIGN ENGINEERING OF STYRENE PARK OFFSITE</p>				
	<p>Doc. Title: Material Requisition for Active Carbon Package</p>				
	<p>Document Number: EI027-000-ED-ME-MR-005</p>		<p>Rev.R1</p>	<p>Page 1 of 17</p>	

Material Requisition for Active Carbon Package

REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
R1	28.Oct.2020	Issued for BID (IFB)	E.Parnianchi	S.Behniafar	R.Memar
R0	10.Oct.2020	Issued for Approval (IFA)	E.Parnianchi	S.Behniafar	R.Memar



پتروشیمی توسعه پارک
صنعتی گوهر افق

Toase-ehe Park Sanati Gohar Ofogh Petrochemical Co.
CONCEPTUAL, BASIC and DETAIL DESIGN ENGINEERING OF
STYRENE PARK OFFSITE



BINA EPC Contractor Co.
(Executor of Oil, Gas, Petrochemical & Power Industries)

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1	X	X						41							
2	X	X						42							
3	X							43							
4	X							44							
5	X							45							
6	X							46							
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1 INTRODUCTION

Creation and development of chain units of Styrene Monomer is the mission of Gohar Ofogh Industrial Park. This company is joint investment of 4 companies including:

- Petro-Entekhab PolyStyrene Plant
- SADAF ESBR PLANT
- Kimiya Sanaye Dalahoo Expandable Polystyrene Plant
- JAM ABS AND RUBBERS PLANT

is located in Assaluyeh.

Feed and utility lines and network construction, a 10,000 MT Styrene Monomer tank construction, Peroxide and its sidelong equipment warehouse are amongst this company's missions. This industrial Park was established on 2011 in an area of 9 acres.

Some of the ongoing projects of this company are:

- ABS-Rubber project
- ESBR project
- EPS project
- Poly Styrene

2 Definitions

Owner/Client: Gohar Ofogh Industrial Park

Engineering Consultant: Fanavaran Tehran Farayand Company Project: Toase-ehe Park Sanati Gohar Ofogh Petrochemical Co.



CONCEPTUAL, BASIC and DETAIL DESIGN ENGINEERING OF STYRENE PARK OFFSITE

Location: Assaluyeh zone, Boushehr province, IRAN

3 Scope

This document defines the minimum requirement for the Active Carbon package of Styrene Park.

Vendor's proposal for equipment and/or materials shall be in strict accordance with conditions stated in this requisition, relevant "Process duty specification for Active Carbon package of Park Styrene" and any attached documents. Exceptions, deviations and alternatives will be valid only if approved in writing by purchaser.

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4 Subject of Supply

The scope of supply shall consist mainly of Active Carbon package including all auxiliaries.

No.	Description	Qty.
1	Activated Carbon Package (PK-0002 A)	1
2	Electrical, Instrumentation and Control System	-
3	All parts is necessary for equipment installation (Such as anti-vibration, bolt & nut, . . .)	-

5 APPLICABLE DOCUMENTS

Process duty specification for Active Carbon package	EI027-000-EB-PR-SPC-500	R1
Instrument & Control Design Criteria	EI027-000-ED-IN-DCR-001	R2
Specification for Field Instrument	EI027-000-ED-IN-SPC-001	R2
Specification for Package Instrumentation	EI027-000-ED-IN-SPC-004	R2
Specification for Junction Box, Gland, Tube, Fitting & Piping	EI027-000-ED-IN-SPC-007	R2
Instrumentation Cables Specification	EI027-000-ED-IN-SPC-012	R2
Instrument Installation & Hook-up Diagram	EI027-000-ED-IN-DIG-007	R0
Specification For Grounding and lightning Protection	EI027-000-EB-EL-SPC-007	R3
Specification For Electrical Bulk Materials	EI027-000-EB-EL-SPC-012	R3
Specification for Electrical Power and Control Cables	EI027-000-EB-EL-SPC-008	R2
Standard Pipe Support	EI027-000-ED-PI-DWG-001	R0
Piping Material Specification (PMS)	EI027-000-EB-PI-SPC-002	R3
Hazardous Equipment Layout	EI027-000-ED-SA-LAY-022	R0
Specification For Electrical Requirements for Packages	EI027-000-EB-EL-SPC-001	R3

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6 General standard

- ASME VIII DIV 1 RULES FOR CONSTRUCTION OF PRESSURE VESSELS
- Guidance Manual for Operators of Small Natural Gas Systems-2002 (prepare by US Department of Transportation Research and Special Programs Administration Office of Pipeline Safety)
- CFR-2010-title49-vol3-part192 (Code of Federal Regulations (publication of the Federal Register)
- Instrument, "Regulator Station Handbook" (prepare by INSTRUMENT INTERNATIONAL CO.)

7 SCOPE OF SUPPLY AND WORK



Vendor's scope of supply and responsibility shall include but not necessarily be limited to the design activities and engineering (according to Para. 3.2), main equipment supply (according to Para. 1.3), auxiliaries Supply (according to Para. 3.1), fabrication, painting, assembly, testing, preparation for shipment, packaging, marking together with provision of erection supervision, commissioning assistance and training.

7.1. Scope of Supply

Main scope of supply as a minimum shall include the items mentioned in para. 1.3.

Vendor shall include all the other Accessories not listed below, but necessary for a good design and a safe operation.

- Sea Worthy Packing
- Heavy duty Single lift base-plates
- Wiring up to J. Box
- All required electrical & instrumentation termination junction boxes for connection of Incoming and interconnection wiring
- Spare parts for erection, pre-commissioning and start-up
- Acoustic attenuation equipment (if Required)
- Thermal Insulation for personal protection (if Required)
- Equipment earthing by externally accessible earthing studs
- Lifting beam (if necessary)
- All required instrumentation
- Anchor bolts and installation bolts
- Mating flanges of suction and discharge nozzles if flanges are not according to ANSI B16.5

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7.2. Scope of Work, Test and Engineering



Vendor shall consider in his offer engineering and tests that are mentioned in this MR and related specs. All documents mentioned in attachment-2 are required. ITP shall be based on (Iranian Petroleum Standard) IPS.

General requirement mentioned below also:

- HAZOP Study
- Engineering and Documentation
- Forces and Moments on Flange
- Required Data for designing Foundation
- Sub vendors coordination and supervision
- Mechanical Guarantee
- Performance Guarantee
- Surface preparation and painting
- Wiring and tubing to junction box within the skid
- Inspection and tests at shop and at site
- Final Book
- Certificate dossier (Including all required Calibration and ATEX certificate)
- Supervision on installation (Daily rate basis)
- Assistance and supervision on Commissioning , start up and performance test (Daily rate basis)

7.3. Exclusions

- Unit Foundation,
- Lifting devices,
- Platforms with ladders for access and maintenance purpose

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8 DOCUMENTS TO BE SUBMITTED WITH VENDOR'S PROPOSAL

With proposal, vendor shall furnish of the followings:

- Quotation
- Technical proposal
- Technical Specification
- Deviation List
- Outline dimension drawings (including estimated weight)
- List of required utilities (Power, Water, etc.)
- Sub-vendor list
- Reference list
- Manufacturing time table
- Catalogues
- Operating principle
- Quality certificates
- Required spare part lists for commissioning and 2 years' operation
- After sales services

All documents and drawings shall be submitted in 2 copies and one Electronic file, which shall be searchable, and written in English. All documents and drawings shall state name of Owner / Client (end-user), Inquiry No., name of commodity and Date of Submission.



9 PRICE BREAKDOWN

Vendor's quoted Lump Sum price shall be broken down into the following categories.

- (1) Equipment and Materials, Ex-works basis
- (2) Special Tools
- (3) Insurance
- (4) Pre-commissioning and Commissioning Spare Parts
- (5) Export Sea-Worthy Packing
- (6) CFR Bandar Assaluyeh or Bandar Imam Iran
- (7) Tests

The followings shall be excluded from the Lump Sum price and quoted separately.

- (1) 2 Years Operation Spare Parts
- (2) Cost for Vendor Supervision (in details)
- (3) Cost for Training

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10 FIELD SERVICE

10.1. Supervision

Vendor shall dispatch personnel for the following supervision services(s) of all Equipment/Materials supplied by Vendor:

- Supervision and/or instruction of field installation and/or assembling
- Adjustment and/or alignment work
- Technical Assistance for Start-up, Commissioning, Initial Operation & Test Runs

Vendor shall quote daily rates, other conditions and recommended service periods for the above service(s).

10.2. Meeting

Vendor shall participate at any clarification meeting, coordination meeting, as required by Purchaser in Purchaser's office.

10.3. Training



Vendor shall quote the cost for the training service for the training of Company's personnel for the operation and maintenance of the equipment and materials, which Vendor offers.

11 DEVIATION FROM PURCHASER'S REQUIREMENT

Vendor's quotation may be subject to rejection unless it includes a list, which shows specifically any deviation from the purchase order, data sheets, specification, related API standards and/or the related documents attached hereto, or a statement "NO DEVIATION". It is necessary that the exceptions and deviations list shall be submitted by using the format of ATTACHMENT-1 "Deviations / Exceptions to JOB Specification"

Purchaser has no responsibility to discover any deviations or alternatives entered in order parts of Vendor's proposal than the said deviation list.

No deviation or exception will be accepted for any package, after the Purchase Order without prior agreement from PURCHASER.

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12 DOCUMENTS REQUIRED AFTER PURCHASE ORDER

12.1. General

All documents and drawings shall state the name of Owner/Client (end user), PO No. and the name of commodity.

All Documents and drawings shall be written in English. Documents and drawings shall be handed over based on project requirement in attachment-2.

The text of electronic files shall be search-able. Status report shall be submitted every one (1) month by fax or E-mail.

In addition to the above, in case of field modification to the supplied equipment, Vendor shall update the As-Built document as field modification.

12.2. Data Sheet



Data sheets shall be produced with Microsoft Office products (Word, Excel). The files shall be delivered in a “workable stand-alone” format, without any special features (links to other files, special fonts, macros, etc.), which may affect the possibility of reviewing and editing accompanied by PDF format of the file.

12.3. Drawings

Final issue of drawings shall be supplied in AUTOCAD format 2014.

12.4. Approval of Vendor’s Documents and Drawings

The documents and drawings to be approved by the Purchaser shall be submitted with a mark “For Approval”. One copy of such documents and drawings will be returned to the Vendor after the Purchaser’s stamping with either “Approved”, “Approved as noted” or “Not Approved” within 2 weeks from the receipt. “Approved as Noted” means: The Vendor shall revise the documents and drawings in accordance with the Purchaser’s comments, and shall resubmit them within 2 weeks from the receipt. Unless otherwise specified, the Vendor may proceed with manufacturing work subject to incorporation of the comments. “Not Approved” means: The Vendor shall revise the documents and drawing in accordance with the Purchaser’s comments, and shall resubmit them within 2 weeks from the receipt. Manufacturing shall not be preceded at this stage.

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13 CHANGES

13.1. Changes Order

The Purchaser reserves the right, from time to time, to make changes in design, quantity and other technical requirements throughout the Project duration.

13.2. Claims

Any Claim including those in respect of change order as referred to in paragraph 10.1 above must be submitted to Purchaser in writing with reasons in any event not later than ten (10) working days after the Vendor received change order request from the Purchaser (in case of paragraph 10.1 above). After elapse of such days the Vendor's right for claim right will be forfeited. In no event shall the Vendor have claim right to this purchase order after the ex-work date of the equipment, except for those submitted to Purchaser before such date.

13.3. No Change

Any change arising from the following but not limited to, shall not create any variation order.

- (a) Compliance with safety or operability requirements
- (b) Error or omission on the part of the EP Contractor

14 SPARE PARTS & SPECIAL TOOLS

14.1. Spare parts for per-commissioning and commissioning.

Spare parts for pre-commissioning and commissioning shall be included in the lump sum price for smooth and safe execution of pre-commissioning and commissioning. Vendor shall recommend the spare parts list based on his experiences.



This list shall include the entire scope of the order.

14.2. Two Years Spare Parts

Vendor shall recommend the spare parts list based on his experiences.

14.3. Special Tools

Vendor shall specify priced list of special tools required for installation, start-up and normal maintenance at bid stage.

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15 GUARANTEE



The Vendor has to guarantee the rated conditions specified on data sheet with zero tolerance on specified flow capacity and head.

Vendor shall also warrant engineering, materials and workmanship of equipment for a period of 18 months after successful start-up or 24 months after shipping whichever occurs first.

Under this warranty, all materials, parts and assemblies found to be defective during the guarantee period shall be replaced by vendor.

16 DELIVERY LOCATION AND TIME



Vendor shall specify delivery time in weeks and delivery location in the offer at bid stage.

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17 ATTACHMENT 1- Deviation/Exception To Job Specification



This lists all Bidder's proposed Deviations / Exceptions to JOB SPECIFICATION. Bidder agrees that its PROPOSAL is in full compliance with the JOB SPECIFICATION except for the Deviations / Exceptions described below. If an exception is rejected, Bidder's PROPOSAL will be adjusted pursuant to the effects noted.

Company: Prepared by:		Date: Rev.:			
Item No.	Description of Proposed Deviation / Exception	Recommended Revision to job specification	Reason for Proposed Deviation / Exception	Effect on Base Proposal if Owner Rejects Deviation / Exception	Owner Comments
<p>Note:</p> <p>- Vendor shall revise the deviation list according to client/consultant comments within days.</p>					

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18 ATTACHMENT 2- Required Technical documentation

POS.	DESCRIPTION	TIME SCHEDULE (10)			
		For review		Final issue	
		Copies Type (1)	Solar Days (2)	Copies Type (1)	Solar Days (3)
1	LIST OF DOCUMENTS TO BE ISSUED BY THE SUPPLIER	2N + 1E	10	5N+1C	15
2	DELIVERY PROGRAM (BAR CHART)	2N + 1E	15	5N+1C	
3	REFERENCE LIST	At bid stage			
4	DEVIATION AND CLARIFICATION LIST	At bid stage			
5	EQUIPMENT DATA SHEET	2N + 1E	30	2N+1C	15
6	SIZING AND CALCULATION DOCUMENT FOR VALVE,PSV,....	2N + 1E	30	2N+1C	15
7	GENERAL ARRANGEMENT DWG	2N + 1E	30	2N+1C	15
8	PIPING & INSTRUMENTATION DIAGRAM	2N + 1E	30	2N+1C	15
9	COMPOSITE OUTLINE DRAWINGS	2N + 1E	30	2N+1C	15
10	NAME PLATE DRAWING	2N + 1E	30	2N+1C	15
11	FOUNDATION PLANS WITH STATIC/DYNAMIC LOADS, AND BOLTS DETAIL	2N + 1E	35	2N+1C	15
12	UTILITIES CONSUMPTION LIST	2N + 1E	20	2N+1C	15
13	CROSS SECTIONAL DRAWINGS, PART LIST WITH DETAIL DATA	2N + 1E	50	2N+1C	15
14	INSTALLATION AND MAINTENANCE MANUAL (12)	2N + 1E	(5)	2N+1C	15
15	INSTRUMENT LIST WITH LIST OF INSTRUMENT SET POINTS FOR ALARMS AND TRIPS.	2N + 1E	(11)	2N+1C	15
16	INSTRUMENT LOCATION AND ROUT PLAN	2N + 1E	(11)	2N+1C	15
17	JUNCTION BOXES WIRING DIAGRAMS AND J.B. LIST	2N + 1E	(11)	2N+1C	15
18	PANEL LAYOUT	2N + 1E	(11)	2N+1C	15
19	TERMINATION DIAGRAM	2N + 1E	(11)	2N+1C	15
20	LOGIC DIAGRAM	2N + 1E	(11)	2N+1C	15
21	COMMISSIONING SPARE PARTS LIST	2N + 1E	60	2N+1C	15
22	TWO YEARS OPERATION SPARE PARTS LIST	2N + 1E	60	2N+1C	15
23	CAPITAL SPARE PARTS LIST	2N + 1E	60	2N+1C	15
24	PRESERVATION , PACKAGING, AND SHIPPING PROCEDURE	2N + 1E	(13)	2N+1C	15

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		For review		Final issue	
		Copies Type (1)	Solar Days (2)	Copies Type (1)	Solar Days (3)
25	SPECIAL TOOLS LIST AND LIFTING BEAM (if needed)	2N + 1E	90	2N+1C	15
26	QUALITY CONTROL PLAN	2N + 1E	20	2N+1C	15
27	INSPECTION AND TEST PLAN	2N + 1E	20	2N+1C	15
28	FAT REPORT	2N + 1E	90	2N+1C	(8)
29	WELDING PROCEDURE SPECIFICATION & QUALIFICATION RECORDS	2N + 1E	(9)	5N+1C	15
30	SUB-SUPPLIERS LIST	2N + 1E	30	2N+1C	15
31	OPERATING AND MAINTENANCE MANUALS	2N + 1E	(6)	2N+1C	(6)
32	ELECTRICAL APPROVAL CERTIFICATES FOR INSTRUMENT AND ELECTRICAL MOTOR IN HAZARDOUS AREA(IF ANY)	2N + 1E	(5)	1N+1C	
33	GUARANTEE TERMS AND CONDITION	2N + 1E	(7)	1N+1C	15

NOTES:

- (1): N on mat paper T Typical P Preliminary C on CD E Electronic file
- (2): Starting from order
- (3): Starting from reception of documentation with comments
- (4): From receipt of electric motor
- (5): 1 month before Blower delivery
- (6): INDEX only, complete manual 1 month before delivery
- (7): No later than 2 months after PO
- (8): Shall be submitted 1 week after receipt of inspection release note.
- (9): Four weeks prior to commencement of major production work.
- (10): Time schedule for submission of documents will be finalized with Vendor
- (11): 4 weeks after PID approval
- (12): Only for the main components
- (13): 4 weeks before test

