



DEHDASHT PETROCHEMICAL INDUSTRY COMPANY
DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT



Contract No.: DPIC/98-12

DOCUMENT TITLE: Work Break Down Structure (WBS)

POI: IFA

Rev.: D0

DOCUMENT No: DPIC9812-000-VD-1002-ME-LST-0003

Sheet 1 of 8

Work Break Down Structure (WBS)

PURCHASER'S COMMENT/APPROVAL STATUS

Purchaser: NARGAN



AP: Approved (Released for Manufacturing)

Requisition No.: DPIC98-12-001-000-ME-MR-4150-0001-D1

2 AN: Approved With Minor Comments (Fabrication may Proceed)

3 NF: Approved With Comments (Fabrication not Proceed)

Item No. (Tag No.): PK-6101

4 RJ: Rejected

5 NR: Not be Returned

Vendor Doc. No.: DPIC9812-000-VD-1002-ME-LST-0003

Date: **01-Nov-2021**

Signature: **Saadat**



D0	01-Nov-21	IFA	T.KH	M.M	A.V
REV.	DATE ISSUE	Purpose of Issue	PREPARED	CHECKED	APPROVED



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WBS NAME	Management & Milestones	Weight Factor%
1	Overall project	100.00%
1.1	Milestones	0.00%
1.1.1	LOI Date	0.00%
1.1.2	Effective Date	0.00%
1.1.3	K.O.M	0.00%
1.1.4	Bank Garanty Payment Date	0.00%
1.1.5	Advanced Payment Date	0.00%
1.2	Engineering	5.00%
1.2.1	GENERAL DOCUMENT	0.50%
1.2.1.1	Vendor Print Index & Schedule (VPIS)	0.20%
1.2.1.2	WBS	0.10%
1.2.1.3	Time Schedule	0.05%
1.2.1.4	Project Monthly Report for Refrigeration Packages	0.05%
1.2.1.5	Sub Vendor List	0.10%
1.2.2	ENGINEERING DOCUMENT	3.90%
1.2.2.1	Vendor Final Book Index	0.08%
1.2.2.2	Piping and Instrument Diagram (PID)	0.08%
1.2.2.3	General Arrangement Drawing Including Loads, Displacement, and Maintenace Info	0.30%
1.2.2.4	Mechanical Calculation of Heat Exchangers and Pressure Vessles	0.30%
1.2.2.5	Utility Consumption List	0.04%
1.2.2.6	Instrument Index List (Including Alarm & Trip Points)	0.04%
1.2.2.7	Junction Box Connection Diagrams (Including Wire Schematic to Instruments)	0.04%
1.2.2.8	Package PLC Wiring Diagrams (Including Wire Schematic to Instruments)	0.04%
1.2.2.9	Control Narrative (Sequence Description)	0.04%
1.2.2.10	Spare Parts List for Commissioning & Start-up	0.04%
1.2.2.11	Spare Parts List for 2-Year Operation	0.04%
1.2.2.12	IOM(including start up, shut down, precommissioning, commissioning procedure)	0.04%
1.2.2.13	I/O List	0.05%
1.2.2.14	Logic Diagram (Print out PLC Program)	0.05%
1.2.2.15	Compressor Drawing	0.08%
1.2.2.16	Oil Filter Drawing and Data Sheet	0.08%
1.2.2.17	Main Motor Data Sheet and Curve	0.08%
1.2.2.18	PLC Wiring Diagrams	0.08%
1.2.2.19	Process Flow Diagram (PFD)	0.08%

WBS NAME	Management & Milestones	Weight Factor%
1.2.2.20	Main Motor Drawing	0.08%
1.2.2.21	Oil Cooler Drawing and Data Sheet	0.08%
1.2.2.22	Oil Pump Drawing and Data Sheet	0.08%
1.2.2.23	Oil Separator Drawing and Data Sheet	0.08%
1.2.2.24	Condensor Drawing and Data Sheet	0.08%
1.2.2.25	Liquid Receiver Drawing and Data Sheet	0.08%
1.2.2.26	K/O Drum Drawing and Data Sheet	0.08%
1.2.2.27	Economizer Drawing and Data Sheet	0.08%
1.2.2.28	Oil Pump Motor Drawing and Data Sheet	0.08%
1.2.2.29	Instrument Cable List	0.07%
1.2.2.30	Instrument Data Sheets	0.08%
1.2.2.31	Cause and Effect Diagram	0.05%
1.2.2.32	Operating Manual (Including Start up, Shut Down, Pre-Commissioning, Commissioning Procedure)	0.05%
1.2.2.33	Operating / Control Philosophy	0.05%
1.2.2.34	Compressor Data Sheet	0.08%
1.2.2.35	Equipment List	0.08%
1.2.2.36	Process Description	0.06%
1.2.2.37	Outline Dimensional Drawings (Cabinets Arrangement)	0.08%
1.2.2.38	Instrument Calculations (Safety Relief Valves, Control Valves, Flow Meters, Restriction Orifices, ...)	0.08%
1.2.2.39	Instrument Hook up Drawings	0.08%
1.2.2.40	Noise Data Sheet	0.08%
1.2.2.41	Filter Dryer Drawing and Data Sheet	0.08%
1.2.2.42	3D Model	0.05%
1.2.2.43	Line List	0.05%
1.2.2.44	PMS for Compressor Package	0.05%
1.2.2.45	Isometric Drawing for Interconnecting Piping	0.08%
1.2.2.46	MTO of Insulation	0.08%
1.2.2.47	Thermal Calculation for Heat Exchangers	0.25%
1.2.2.48	Name Plate Drawing	0.04%
1.2.2.49	Capital Spare Part	0.04%
1.2.2.50	Special Tools List	0.04%

WBS NAME	Management & Milestones	Weight Factor%
1.2.3	QC DOCUMENT	0.60%
1.2.3.1	Inspection & Test Plan (ITP) (for Whole Package)	0.10%
1.2.3.2	Welding Book (WPS, PQR and Welding / NDE Map)	0.06%
1.2.3.3	Painting Procedure	0.04%
1.2.3.4	Packing, Marking and Shipping Procedure	0.04%
1.2.3.5	Fat Procedure for Control System	0.04%
1.2.3.6	NDE Procedure	0.04%
1.2.3.7	PMI Procedure	0.04%
1.2.3.8	Inspection and Test Procedure for Compressor	0.04%
1.2.3.9	Inspection and Test Procedure for Vessle Skids	0.04%
1.2.3.10	Preservation Procedure	0.04%
1.2.3.11	Hydrostatic Test Procedure	0.04%
1.2.3.12	Lifting Procedure	0.04%
1.2.3.13	Certificates	0.04%
1.3	Supply of Material	35.00%
1.3.1	Domestic Supply	10.00%
1.3.1.1	Pipe	1.11%
1.3.1.1.1	PO placement	0.12%
1.3.1.1.2	EX Work	0.44%
1.3.1.1.3	Delivery to shop	0.55%
1.3.1.2	Plate	1.11%
1.3.1.2.1	PO placement	0.12%
1.3.1.2.2	EX Work	0.44%
1.3.1.2.3	Delivery to shop	0.55%
1.3.1.3	Flange & Fitting	1.11%
1.3.1.3.1	PO placement	0.12%
1.3.1.3.2	EX Work	0.44%
1.3.1.3.3	Delivery to shop	0.55%
1.3.1.4	Gasket	1.11%
1.3.1.4.1	PO placement	0.12%
1.3.1.4.2	EX Work	0.44%
1.3.1.4.3	Delivery to shop	0.55%

WBS NAME	Management & Milestones	Weight Factor%
1.3.1.5	Bolt & Nut	1.11%
1.3.1.5.1	PO placement	0.12%
1.3.1.5.2	EX Work	0.44%
1.3.1.5.3	Delivery to shop	0.55%
1.3.1.6	Electrical	1.11%
1.3.1.6.1	PO placement	0.12%
1.3.1.6.2	EX Work	0.44%
1.3.1.6.3	Delivery to shop	0.55%
1.3.1.7	Manual valves	1.12%
1.3.1.7.1	PO placement	0.13%
1.3.1.7.2	EX Work	0.44%
1.3.1.7.3	Delivery to shop	0.55%
1.3.1.8	Instrument	1.11%
1.3.1.8.1	PO placement	0.12%
1.3.1.8.2	EX Work	0.44%
1.3.1.8.3	Delivery to shop	0.55%
1.3.1.9	PLC	1.11%
1.3.1.9.1	PO placement	0.12%
1.3.1.9.2	EX Work	0.44%
1.3.1.9.3	Delivery to shop	0.55%
1.3.2	ForeignSupply	25.00%
1.3.2.1	Other Valves	1.87%
1.3.2.1.1	PO placement	0.19%
1.3.2.1.2	EX Work	0.75%
1.3.2.1.3	Custom clearance	0.56%
1.3.2.1.4	Delivery to shop	0.37%
1.3.2.2	Instrument	1.87%
1.3.2.2.1	PO placement	0.19%
1.3.2.2.2	EX Work	0.75%
1.3.2.2.3	Custom clearance	0.56%
1.3.2.2.4	Delivery to shop	0.37%
1.3.2.3	Electrical (Electro motor)	5.00%
1.3.2.3.1	PO placement	0.50%
1.3.2.3.2	EX Work	2.00%
1.3.2.3.3	Custom clearance	1.50%
1.3.2.3.4	Delivery to shop	1.00%

WBS NAME	Management & Milestones	Weight Factor%
1.3.2.4	Filter	1.88%
1.3.2.4.1	PO placement	0.20%
1.3.2.4.2	EX Work	0.75%
1.3.2.4.3	Custom clearance	0.56%
1.3.2.4.4	Delivery to shop	0.37%
1.3.2.5	Oil pump & Oil separator	1.88%
1.3.2.5.1	PO placement	0.20%
1.3.2.5.2	EX Work	0.75%
1.3.2.5.3	Custom clearance	0.56%
1.3.2.5.4	Delivery to shop	0.37%
1.3.2.6	Compressor	12.50%
1.3.2.6.1	PO placement	1.25%
1.3.2.6.2	EX Work	5.00%
1.3.2.6.3	Custom clearance	3.75%
1.3.2.6.4	Delivery to shop	2.50%
1.4	Fabrication	45.00%
1.4.1	Fabrication For Compressor unit	6.60%
1.4.1.1	Part Fabrication-(cutting,rolling,casting)	3.31%
1.4.1.2	Part Assembly	1.65%
1.4.1.3	Part Welding	0.82%
1.4.1.4	NDT	0.82%
1.4.2	Fabrication For Condensor	6.60%
1.4.2.1	Part Fabrication-(cutting,rolling,casting)	3.31%
1.4.2.2	Part Assembly	1.65%
1.4.2.3	Part Welding	0.82%
1.4.2.4	NDT	0.82%
1.4.3	Fabrication For Hexane chiller	6.60%
1.4.3.1	Part Fabrication-(cutting,rolling,casting)	3.31%
1.4.3.2	Part Assembly	1.65%
1.4.3.3	Part Welding	0.82%
1.4.3.4	NDT	0.82%
1.4.4	Fabrication For Skid	6.60%
1.4.4.1	Part Fabrication-(cutting,rolling,casting)	3.31%
1.4.4.2	Part Assembly	1.65%
1.4.4.3	Part Welding	0.82%
1.4.4.4	NDT	0.82%

WBS NAME	Management & Milestones	Weight Factor%
1.4.5	Assembly of packages on skid	6.60%
1.4.5.1	Inter connecting piping	3.31%
1.4.5.2	Part Assembly	1.65%
1.4.5.3	Part Welding	0.82%
1.4.5.4	NDT	0.82%
1.4.6	Visual & DIM. Inspection	4.00%
1.4.7	Surface Preparation	2.50%
1.4.8	Painting	2.50%
1.4.9	Final Check	3.00%
1.5	FINAL INSPECTION TEST and RELEASE NOTE for Ex-Work	10.00%
1.5.1	FINAL INSPECTION TEST and RELEASE NOTE for Ex-Work	10.00%
1.6	Final Data Book	5.00%
1.7.1	VENDOR FINAL DATA BOOK	5.00%