

SCOPE OF WORK

工作范围

PR Number : 100001363

PR 号码

Title : Replacement the Air Pre Heater tubular bank 2A & 2B at Layer 1st

A. Scope of supply 供货范围

1. Preparation
准备
2. Fabrication and installation supporting beam to insert and take out the APH tubular bank.
制作和安装支撑梁, 用以拆除和安装 APH 管箱
3. Replacement the APH tubular bank 2 sets for 1st layer of 2A & 2B
更换第一层 2A 和 2B 的 APH 管箱共 2 套 (8 台)
4. Cleaning inside the APH for PAF & SAF 2A & 2B from 4th layer to 1st Layer and to hopper
从 APH 第 4 层到第 1 层包括底部灰斗, 2A 和 2B APH 内清洗 PAF 和 SAF 的空预器管组的积灰。
5. Housekeeping before, during and after installation
安装前、安装中、安装后的清洁工作
6. Heavy Equipment (Cranes) and Lifting tools including by Contractor
包括承包商提供的重型设备(起重机)和起重工具
7. Fuel provide by Contractor
承包商提供的燃料
8. Scaffold installation and insulation rock wool works by Contractor
脚手架安装和拆除和保温施工工程由承包商负责
9. Materials by DSSP except consumables (gas, grinding disc, welding rod, cotton wag, cleaner, painting, etc) supply by contractor
耗材(气体、磨片、焊条、棉纱、清洗剂、油漆等)由承包商提供, 物料由 DSSP 提供。

B. Heavy Equipment List 重型设备清单

Heavy Equipment required to replacement the APH tubular bank
更换APH管箱所需的重型设备

No	Material description 材质说明	Qty 数量	Unit 单位	Remarks 备注
1	Mobile crane Demag AC 180, Cap 180 Ton 移动式起重机Demag AC 180, Cap 180吨	1	Set 套	Including the 2 persons Operator + 2 persons Rigger (2 shift) 包括2名操作员+2名起重工(2班制)
2	Mobile crane Cap 45 Ton 移动式起重机Cap 45吨	1	Set 套	Including the 1 person Operator + 1 person Rigger (On call) 包括1人操作员+1人起重工 (On call)
3	Rent low Bed Truck Cap 30 Ton 租平板车上限30吨	1	Set 套	Including the 2 persons Operator + 2 persons Rigger (2 shift) 包括2名操作员+2名起重工(2班制)
4	Rent Forklift 7 Ton 租用叉车7吨	1	Set 套	Including the 2 persons Operator + 2 persons Rigger (2 shift) 包括2名操作员+2名起重工(2班制)

Noted : This cranes required is estimate only, actually depend on contractor
注 : 所需起重机仅为估计, 实际取决于承包商

C. Lifting tools List






Lifting tools

No	Material description	Qty	Unit
1	Wire sling Ø 1.5 WLL 8 ton x 6 m	12	ea
2	Wire sling Ø 1.5 WLL 8 ton x 8 m	4	ea
3	Wire sling Ø 1.5 WLL 8 ton x 10 m	4	ea
4	Shackle WLL 17 ton	42	ea
5	Shackle WLL 12 ton	8	ea
6	Shackle WLL 8 ton	8	ea
7	Pulley 7 ton - 12 ton	12	ea
8	Electric winch 1 - 3 ton	2	ea
9	Chain block 10 - 15 ton	8	ea
10	Chain block 5 ton	8	ea
11	Chain block 3 ton	12	ea
12	Level block 1,5 ton	12	ea
13	Enerpack jack cap 25 ton	4	ea
14	Skid roller cap 30 ton	8	ea
15	Manila rope Ø 3/4"	200	m
16	Handly Talky c/w charger	8	ea
17	Aluminium ladder	3	ea

Noted : This lifting tools required is estimate only, actually depend on contractor

D. Common scope

Common Scope				
No	Work Description	Scope of Work		Remarks
1	General Scope	Cleaning working area after finish	✓	At site PT DSSP
		First aid	✓	At site PT DSSP
		Medical for worker	✓	At site PT DSSP
		Fire fighting equipment	✗	At site PT DSSP
		Safety Inspector facilities	✓	At site PT DSSP
		General Lighting	✗	At site PT DSSP
		Portable Lighting	✓	At site PT DSSP
		Over all security	✗	At site PT DSSP
2	Temporary facility Scope	Dormitory	✗	If the vendors stays outside the facilities provided, the costs will be provide by themselves
		Meals & water drinking	✓	
		Job and de-job manpower	✓	
		Job and de-job tool and equipment	✓	
		Local transportation for manpower, material, equipment	✓	
		Safety PPE	✓	
		Site offices & rest shelter	✓	
		Scaffold installation and dismantle	✓	
3	Consumables & Tool Scope	Secure site - Safety Inspector facilities	✓	
		Consumable (Majun, grinding & cut wheel drill bit, etc.)	✓	
		Compressed air sources	✗	
		Water resources	✗	
4	Safety requirement	Electrical resources	✗	
		Vendor must be have safety man and have certificate	✓	
		JSA must be completed before start working	✓	Form will be share after PO
		Man power must be have certificate of healths from doctor	✓	
		Vendor must be submit check list for outsourcing service work	✓	Form will be share after PO
5	Vendor Qualification	Vendor must be have list tools and APD	✓	Will inspect by DSSP HSE before use
		Follow regulation of DDPI regarding O&M Outsourcing Service Work Management	✓	Document No. DSSP/DDPI/TECH/001
		REMARKS	Vendor Scope	✗ Not Vendor Scope

Prepared by	Checked by	Approved by
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B. Common scope

Common Scope			
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1	General Scope	Cleaning working area after finish	✓ At site PT DSSP
		First aid	✓ At site PT DSSP
		Medical for worker	✓ At site PT DSSP
		Fire fighting equipment	✗ At site PT DSSP
		Safety Inspector facilities	✓ At site PT DSSP
		General Lighting	✗ At site PT DSSP
		Portable Lighting	✓ At site PT DSSP
		Over all security	✗ At site PT DSSP
2	Temporary facility Scope	Dormitory	✗ If the vendors stays outside the facilities provided, the costs will be provide by themselves
		Meals & water drinking	✓
		Job and de-mob manpower	✓
		Job and de-mob tool and equipment	✓
		Local transportation for manpower, material, equipment	✓
		Safety PPE	✓
		Site offices & rest shelter	✓
		Scaffold installation and dismantle	✓
3	Consumables & Tool Scope	Secure site - Safety Inspector facilities	✓
		Consumables (Man grinding & cut wheel, drill bit etc)	✓
		Compressed air sources	✗
		Water resources	✗
4	Safety requirement	Electrical resources	✗
		Vendor must be have safety man and have certificate	✓
		JSA must be completed before start working	✓ Form will be share after PO
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REMARKS		✓ Vendor Scope	✗ Not Vendor Scope

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