ATTACHMENT I: MANPOWER SERVICE						Ready to mobilize the minimum manpower quantity upon NSRP's request. (Actual manpower requirements shall be based on NSRP's needs and may be less than or exceed the minimum quantity specified)			
No.	Position/ Title	Common Requirement	Knowledge/experience	Required Skill	Working Altitude	In urgent case (Mobilize within 8 hours)	Planned Work (Mobilize within 36 hours)	Un-planned project work. (Mobilize within 24 hours)	Unit
1	Welder 6G	Work under NSRP Static PIC/NSRP DMS Technician/Lead Technician. Perform TIG & ARC Welding and Cutting metal parts using Electric, Plasma & Oxygen/Acetylene Gas equipment.	Completion of Intermediate Education. ASME certificate for GTAW and SMAW for C.S., S.S. & Alloys of ferrous & non-ferrous metal. Minimum Five (4) years welding experience with welding process. The welder (s) must be qualified as per MD-04-AI-CE-MA-001 Rev.00 Welding Manual. Understand of hazard of welding work in refinery. Previous experience in pipe cutting, beveling, or piping fabrication works for pressure-retaining systems such as HHPS and BFW in refineries or petrochemical plants will be an advantage.	Use measuring instruments such as ruler, dividers, tapes, and the like. Use both AC and DC electric welding machines. Prepare metal plates, pipes, angles, and channels joints for welding. Carry out electric welding of joints in metal pipes, fittings structural steel etc. Fabricate brackets and frames. Welding successful rate accordance to 6.2.4.4.4 in MD-04-AI-CE-MA-001.	-Demonstrates a professional work attitude, strong listening skills, and compliance with instructions and decisions issued by the NSRP Static PIC. -Willing and capable of working under challenging site conditions, including adverse weather, high-temperature environments, elevated work locations, dusty areas, and confined spaces, while complying with all applicable HSSE requirements. -Maintains a proactive and productive work ethic, minimizing unnecessary interruptions and idle time. Total break time shall not exceed one (1) hour during an eight (8) hour shift. Productive working time on site or in the workshop, as directed by NSRP, shall be at least 6.7 hours per shift. -Proactively identifies issues and proposes practical solutions or work execution methods to the NSRP Static PIC to support safe and efficient task completion. -Demonstrates diligence, integrity, accountability, and commitment to delivering quality work. -Maintains respectful, professional, and cooperative communication with NSRP personnel and other stakeholders, fostering effective teamwork and productive execution of the Services. -Demonstrates flexibility, adaptability, and a willingness to support NSRP operational and maintenance priorities as required.	6	18	8	Men
2	MIG welding operator	Work under NSRP Static PIC/NSRP DMS Technician/Lead Technician. Defined as per 6.2.4.4.4 in MD-04-AI-CE-MA-001. for perform operate MIG welding machine	Complete of vocational school or higher class in field of industrial technical. Minimum Five (4) years welding experience with welding process. Qualified and certified as per 6.2.4.4.4 in MD-04-AI-CE-MA-001.	As per 6.2.4.4.4 in MD-04-AI-CE-MA-001. Welding successful rate accordance to 6.2.4.4.4 in MD-04-AI-CE-MA-001.		1	2	2	Men
3	Pipe Fitter	-Developing fabrication, cutting plan for shop drawing. -Cutting metal parts using Electric, Plasma & Oxygen / Acetylene Gas equipment. manual cutting machine. -Alignment, fitting welding joints. Fabricating metal and non metal according to NSRP fabrication drawings. -Fabricating welding jigs, mechanical jigs for fabrication process. -Operate auto/semi auto beveling machines, on-site auto beveling machine. -Using manual lifting tool, hydraulic jack, press bench, cutting bench professionally. -Operate beveling machines, on-site automatic beveling machine. -Set-up for site preparation for hot work at site -Perform 5S practices to ensure the work area and job site are clean, organized, and well-maintained at all times. -Checking material, receiving material for fabrication work according to NSRP request. -Work under NSRP Static PIC/NSRP DMS Technician/Lead Technician.	Minimum Three (3) years experience of pipe fitter in field such as pipe fitting, tank, structure or vessel. Previous experience in pipe cutting, beveling, or piping fabrication works for pressure-retaining systems such as HHPS and BFW in refineries or petrochemical plants will be an advantage.	-Able to read and interpret piping drawings, isometrics, P&IDs, and shop drawings. -Able to identify and prepare hot work tools and equipment. -Able to prepare detailed fabrication sketches and shop drawings. -Familiar with and experienced in pipe cutting, fit-up, alignment, flange installation, and support installation. -Experienced in developing fabrication methods and preparing detailed shop drawings. -Knowledgeable in piping materials, fittings, valves, and related equipment. -Able to use common fitting tools and measuring instruments. -Familiar with and experienced in the use of heat treatment machines. -Trained and experienced in supporting Welding Operators in setting up automatic welding machines.		6	18	8	Men

ATTACHMENT II: EQUIPMENT SERVICE				Ready to mobilize the minimum quantity of equipment upon NSRP's request. (Actual equipment requirements shall be determined by NSRP and may be lower or higher than the minimum quantity specified.)				Important equipment
No.	Equipment Type	Description	Remark	In urgent case (Mobilize within 8 hours)	Planned Work (Mobilize within 36 hours)	Un-planned project work. (Mobilize within 24 hours)	Unit	
1	MIG Machine (3 phase)	MIG Welding Machine come with adequate accessories (long electrical cables, at least 30m long welding cables, welding tips, fitting...)		1	2	1	SET	YES
2	MIG Machine (1 phase)	MIG Welding Machine come with adequate accessories (long electrical cables, at least 30m long welding cables, welding tips, fitting...)		1	2	1	SET	
3	Gouging machine	Gouging machine come with adequate accessories		1	2	2	SET	YES
4	Gas torch	Gas torch come with adequate compressed gas, oxygen bottles, hoses, bracket and torch tips spare, accessories (for using throughout the service)		1	2	2	SET	YES
5	Manual pencil grinder	Manual pencil grinder with sufficient pencil tips and cable		3	5	5	SET	
6	Portable drilling/milling machine (magnetized or alternative)	On-site portable drilling/milling machine come with various size of drill bits and adequate accessories		1	2	2	SET	
7	On-site Portable demagnetizing unit	Portable demagnetizing unit with adequate accessories		1	1	1	SET	
8	DB box with extend electrical cable (1 Phase)	Tools, DB box , 1 phase. 01 Inlet socket, MCCB 30A, RCBO 16A 32MA, 04 Outlet sockets - 1 Phase, 220V or equivalent.		5	15	10	SET	
9	DB box with extend electrical cable (3 phase)	Tools, DB box ,3 phases, 01 inlet socket, with MCCB (100A, 4P)/RCBO (3P 1N 32A 30mA), min 4 outlet sockets.		3	15	8	SET	
10	DB box with extend electrical cable (3 phase)- High capacity	Tools, DB box ,3 phases, 01 inlet socket, with MCCB (500A, 4P)/RCBO (3P 1N 100A 30mA), min 4 outlet sockets.		2	15	4	SET	
11	On-site portable automatic track cutting/beveling machine (* Rùa Cắt Ống)	On-site portable automatic track cutting/beveling machine for various size of pipe/equipment	Can install gas torch or plasma cutter	2	4	2	SET	YES
12	Hot Work Consumable	Fire blanket for welding cutting hot work. (smooth silicone coated, high temperature resistant 1000 Degree to 1600 Degree)		50	300	100	M2	
13	Welding Consumable	MIG welding rod for carbon steel, low temp steel		15	50	30	KG	
14	Welding Consumable	MIG welding rod for stainless steel SS347		5	15	15	KG	
15	Welding Consumable	MIG welding rod for stainless steel SS316/316L		10	50	30	KG	
16	Welding Consumable	MIG welding rod for stainless steel SS304/304L		5	30	15	KG	
17	Welding Consumable	MIG welding rod for stainless steel SS304H		10	30	15	KG	
18	Welding Consumable	MIG welding rod for stainless steel SS310		5	30	10	KG	
19	Welding Consumable	MIG welding rod for stainless steel SS410		5	30	10	KG	
20	Welding Consumable	Welding bubbles or alternative (various size)		8	16	16	PC	
21	Welding Consumable	Dissolvable paper (23CM X 50M) with compatible paste		10	15	15	ROLL	
22	Welding Consumable	On-site Inert Gas high capacity system for backing gas method come with adequate accessories (30 Meter hoses, regulator, calibrated indicator,...). The gas purity will comply to ASME/ISO/NSRP standard.		1000	1000	1000	LITER	NICE TO HAVE
23	Dry Ice	Frozen dry ice with preserve box		5	10	10	KG	
24	Ventilation fans	-DVT 40 Equivalent. -Min: 1.1KW. -DIA 400MM. -Flow rate: min 7000 M3/H.		30	60	50	PC	

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No.	Equipment Type	Description	Remark	In urgent case (Mobilize within 8 hours)	Planned Work (Mobilize within 36 hours)	Un-planned project work. (Mobilize within 24 hours)	Unit	
25	Canvas flexible ventilation hose	- DIA: 400mm. - Working temp: 90 Degree C. - Canvas simili with reinforce coil.		50	120	80	M	
26	Confined spaced 24V DC-lighting silicon protected LED band	-Min 1000 Lumens. -Ultra bright. -Water and dust proof IP67 or better. - White light. -Durable silicone tube cover. -Come with adapter, sockets and accessories		50	120	80	M	
27	Confined spaced 24V DC-lighting	-Min 1500 Lumens. -Ultra bright. -Water and dust proof IP67 or better. - White light. -Come with adapter, sockets and accessories		12	30	21	PC	
28	On-site and workshop medium capacity Air Conditioner	-Min 25 000 BTU. -Min flow rate: 1000 m3/h. -Come with 50m cooling air convey hoses, fitting and accessories. - High cooling air velocity -Prefer Movable equipment.		1	2	2	SET	
29	On-site high capacity Air Conditioner	-Min 40 000 BTU. -Min flow rate: 1900 m3/h. -Come with 50m cooling air convey hoses, fitting and accessories. - High cooling air velocity -Prefer Movable equipment.		1	2	2	SET	NICE TO HAVE