

ANNEXURE-2

Mandatory Requirement for Manpower

Sr. No.	Resource Details	Requirement Per Month (Nos.) (Category-A)	Requirement Per Month (Nos.) (Category-B)
Manpower requirement			
1	Supervisor DME with minimum 3 years of experience or BE (Mech.) with minimum 1-year experience or minimum 6-year experience in relevant field	1	1
2	Q-HSE Supervisor/officer (DME with minimum 3-year experience or BE/B. Tech (Mech.) with minimum 1 year experience	1	1
3	Certified Welder (Separate qualification is required for Underground pipeline and Above Ground piping)	1	1
4	Fitter for pipeline and piping fabrication (ITI with 3 to 5 year experience)	1	1
5	Rigger (1-year relevant experience) cum driver*	3	1
6	Grinder (1-year relevant experience)	1	1
7	Helper	3	1
	Total	11	7
	*Manpower to be utilised as driver shall have valid driving license and shall have relevant experience		
Mandatory requirement of tools and tackles for Steel O&M			
8	Diesel Welding Generator Set	1	1
9	DC Power Generator: 5 KVA	1	1
10	Portable Air Compressor: 600 CFM (Diesel engine drive)	1	1
11	Bevelling Machine	1	1
12	External welding clamp of each pipe size	1	1
13	Dewatering pump with capacity 20 KL	1	1
14	Vehicle equipped with all required tools & tackles (Tata 207 or equivalent)	1	1
15	Hydraulic / Pneumatic Grease Gun with grease	1	1
16	Non-Sparking Tools - all sizes	1 Set	1 Set
17	Oxygen analyser and methane detector	1 each	1 each
18	Safety Equipments: PPEs, Boiler Suit, Safety harness, Fire Retardant suit and all equipments guided by GEL HSE Officer	1 each	1 each
19	Emergency light (Halogen light arrangement for work carried out during night)	1 Set	1 Set
20	3 Mtrs height venting arrangement for venting of NG during Emergency of size 1/2", 1"and 2"	2 Set Each	1 Set Each
21	DCP 10 kg Cylinder	2	2
Mandatory requirement of additional tools and tackles for Valve Chamber Maintenance			
22	All Valve Key sets with long handle	1 Each	1 Each
23	Caution Board, Hard Barricading and Cordoning tape	2 or higher as per site requirement	2 or higher as per site requirement
24	Flameproof Torch	2	2
25	Standard tool box with all required spanners (E.g. Pipe wrench – 10” & 12”, Adjustable spanner – 6”, 12” for meter regulator adaptor tightening, insulated chisel etc. Brass tools & tackles required for job as per GEL representative instruction)	1	1
26	Aluminium Ladders	1	1

Sr. No.	Resource Details	Requirement Per Month (Nos.) (Category-A)	Requirement Per Month (Nos.) (Category-B)
27	Sleepers' lifting key sets	1 Set	1 Set
28	Safety Harness for Confined space	1	1
29	Blasting Machine and Sand Hopper	1	-
Other tools & Tackles and Manpower that should be available on call basis			
1	X- Ray Units	1	1
2	UT Machines	1	1
3	MPT Machine	1	1
4	Hydra Tyre Mounted Crane	1	1
5	JCB	1	1
6	DC Power Generator: 25 KVA	1	1
7	Mud pump: 4"	1	1
8	Gamma Ray (Source) unit for inaccessible regions through X Ray	1	1
9	HDD Machine	1	1
10	Steel pipeline/underground Cable locator	1	1
11	Hydrotest and Pneumatic test header and associated equipments	1	1
12	ASNT Lever II for thickness assessments	1	1
Notes: - At each base location minimum set of 1 team as per above mentioned manpower and mandatory tools and tackles/equipments needs to be deployed/mobilized. Payment for the same shall be made against deployment of all above mandatory resources. CONTRACTOR shall ensure to capture attendance of all the deputed manpower in QR code based online Pay-Attendance-Leave Management (PALM) System. CONTRACTOR to note that the same will be applicable to all the fixed manpower/employees. Online attendance data will be integrated in the pay & leave module, to get manpower billing and pay-remuneration process without any manual intervention. CONTRACTOR to refer attached GEL typical Forms & formats (Annexure-15, 16 & 17) for various Construction & Maintenance activities as mentioned in the tender document. CONTRACTOR to request GEL/GEL EIC for latest version of GEL typical Forms & Formats post award of CONTRACT as well as during CONTRACT period.			