

## Annexure 2 Tools & Plant TG & BOP "Part A"

List of Minimum Tools & Tackles and Equipment to be maintained at site by the Contractor per month						
			rackies and Equip	Qty	intamed at site	i i
Sr. No.	Details of Tools & Plants	UoM	TG	ВОР	Total	Remarks
1	Welding generator	Nos	1	1	2	
2	Diesel operated welding generator	Set	0	1	1	
3	TIG welding set  Portable welding machine set (Single Phase	Set Set	<u>1</u> 1	1	2	
5	Portable welding machine set (Three Phase)	Set	1	1	2	
6	Welding cable with requisite holder	Set	1	1	2	
7	Argon cylinder with regulator	Set	2	0	2	Extra Qty. to be provided as &when required at Site.
8	Oxygen - DA set with regulators	Set	2	2	4	
	Tested Chain pulley blocks, Wire rope					
9	slings & D-Shackles- 5T,10T, 3T, 2T, 1T	Set	02 Each	02 Each		
10	Safety Rope (12 mm,16 mm, 20mm)	Mtrs	100 Mtr each	100 Mtr each		
11	Torch (Heavy duty)	Nos	2	2	4	
12	Hand lamps	Set	4	4	8	
13	Grinders (AG-5, AG-7, FF2, AG4) Cutting sets	Nos	02 Each 1	02 Each	2	
14	Utility vehicle- Mahindra Pickup or	Nos	ı	ı		
15	equivalent	Nos	1	0	1	24 Hrs. basis,
	Hydra (Extended boom telescopic) Escorts					
	F15 or Equivalent	Nos	1	0	1	
	Hydraulic jack 2T, 5T,10T, 20T	Nos	02 Each	02 Each		
	Hydraulic jack- 25 tons Hydraulic jack- 50 tons	Nos Nos	2 (Low height) 2	2 2	4	
20	24V DC lamp	Set	5	4	9	
21	Pull lifts 2 T, 4 T	Nos	1	0	1	
22	Tube cutting machine	Nos	1	0	1	
23	Trailer- 30 Tons	Nos	1	0	1 1	
24	Pipe bending machine heavy duty Spanner set (8 to 65mm). D-spanner, ring	Nos	1	0	1	
	spanner set (8 to 65mm). D-spanner, ring spanner, slogging spanner, Adjustable					
25	spanner	Set	02 set each	02 set each		
26	Lifting belts & slings (2T to 50T)	Nos	02 each	02 each		
27	Grease gun (2kg and 5kg)	Nos	2	2	4	
28	Painting Spray Gun	Nos	1	1	2	
29 30	Safety net Aluminum ladder (3 Mtr, 5 Mtr, 10 mtr)	Nos Nos	2 02 each	2 02 each	4	
31	A-Type Ladder (3 Mtr)	Nos	02 each	02 each		
32	Tool box	Nos	1/each fitter	1/each fitter		
33	Allen key set up to 36mm/lnch	Set	2	2	4	
34	Bearing pullers set (Up to 350 mm)	Set	1	1	2	
25	Dial gauge 0-5mm (Calibrated) including magnetic base	Cot	2	2	4	
35	Dial gauge 0-2mm (Calibrated) including	Set	2	2	4	
36	magnetic base	Set	2	2	4	
37	Bore Dial Gauge, Slip gauge Box	Set	1	0	1	
38	Filler Gauge, Depth Gauge	Nos	1/each fitter	1/each fitter		02 setsof Filler Gauge more than 3 mtr length
	Testing & measuring instruments (Vernier calipers, inside & outside micrometers) with					
39	Calibration Certificate	Set	2	1	3	
- 00	Magnetic base Drill machine with drill	001	-			
40	bits(sizes up to 32 mm)	Nos	1	1	2	
41	Tarpaulin (20 m x 20 m)	Nos	3	3	6	
42	Box spanner sets up to 60 mm	Set	1	1	2	
43	Ropes for material handling Halogen sets	Set	4	4	8 4	
44 45	Rubber hand gloves	Set Set	As per requ	irement	4	
.5	Measuring tape up to 5 mtr, 10 mtr,15	201	, 10 por 10qu			
46	meter	Each	10	10	20	
			300 pipes/300			
47	Scaffolding material- Pipes, Clamps, Ropes, Steel Jolley's, planks		clamps/100 metal			
47 48	Valve manual lapping kit	Set	planks 1	0	1	
49	All PPE as per requirement of work	Set	Each/pe			
50	Induction heaters	Each	1	0	1	
51	Torque wrenches (up to 3000 NM capacity)	Each	1	1	2	
52	Various files (flat, round, half round etc.)	Set	2	2	4	
52	Screw driver sets	Set	2	2	4	
55	Vernier calipers plain, digital, Range 0-	201	-	-	-	
54	300mm, Mitutoyo make	Each	1	1	2	
	Outside & Inside micrometers up to 600					
55	mm, Mitutoyo make	Each	1	1	2	
56	Circlip pliers- Internal and external each	Set	1/each fitter	1/each fitter		
57	Copper/Brass rods of various sizes	Set	2	2	4	
<u> </u>	Hammer -1 pound, 2 pound, 3 pound, 10	201	-	-	•	
58	pound	Set	4each	4 each		
59	FF2 machine with bit	Set	2	1	3	
60	Valve servicing - Lapping tools	Set	1	0	1	
61	Lube Oil filling pump (Motorized type / Hand tool)	Set	1	1		1 Nos Motorised type & 1 nos of hand filling
61	1001)	Jei	Ι	1		Complete set of non sparking tools with slide wrench and
62	Non sparking tools	Set	0	1		spanners
Notes:						
	The above mentioned minimum quantity of T	ools &	Tackles and equipm	nent have to be n	naintained by th	e Contractor at the Owner's site through out the Contract period

and has to be replenished by the Contractor as and when the quantity is consumed. The Tools & Plants as specified above are not exhaustive and the Contractor has to deploy additional Tools & Plants as per site requirement to complete the scope of work in all respects, without any financial implication to the Owner, Other details shall be as per scope of work.

The above mentioned equipment must be of ISI standards and of industrial grade from standard manufacturer.

Tools, Tackles & Equipment deployed by the contractor shall be suitable for safe & quality work.

Lifting tools should have valid test certificate from competent authority.