

The Servicing of hydrogen Plant (H2 Plant) on as and when required bases for period of 36 months

Items	Description	Unit	Qty	Rate	Total Cost
1	Time related items				
1,1	Annual Servicing of Hydrogen Plan	No	5		
1,2	6 Monthly inspection of Hydrogen plant	No	12		
1,3	Breakdown	No	30		
1,4	Provide Training	No	10		
	Sub-Total Cost Time Cost related				
2	Spares List related items				
2,1	METER, FLOW: TYPE: VARIABLE AREA; CONNECTION: NPT 1/4 IN	No	1		
2,2	ANALYZER, GAS: TYPE: O2X1; RANGE 0 TO 250000 PPMV	No	1		
2,3	ANALYZER, GAS: TYPE: HYDROGEN IN NITROGEN XMTC	No	2		
2,4	VALVE, SOLENOID: PIPE SIZE: 1/4 IN; STYLE: 1 WAY; POTENTIAL ORIFICE SIZE: 1.2	No	34		
2,5	VALVE, SOLENOID: POTENTIAL: 24 VDC; DESIGN RATING: 3 MPA	No	1		
2,6	SWITCH, LEVEL: MUST BE SUPPLIED WITH EX RATED CERTIFICATION	No	1		
2,7	ANALYZER, GAS: TYPE: 3HYE HYDROGEN CITICE	No	1		
2,8	VALVE, SOLENOID: PIPE SIZE: 1/4 IN; STYLE: 1 WAY; POTENTIAL ORIFICE SIZE 3.2mm	No	6		
2,9	Flow Meter METER,FLOW:PURGEMETER;0.1-1 LPM;SS 316 Tokyo flow switch	No	1		
2,10	VALVE, SOLENOID: PIPE SIZE: G3/4 IN; STYLE: 2; POTENTIAL Solenoid valves outside/black in colour	No	1		
2,11	FILTER:COALESCING ;WD 41 X LG 113 MM (Steel body)	No	1		
2,12	REGULATOR,PRESS:HYDROGEN ;IN 400 BAR (Back Pressure regulator- Blue)	No	1		
2,13	CELL:STACK ;DIA 680MM X LG 1.35M - complete with Test and NDT's certificate of each Individual plate & flanges	No	2		
2,14	ANALYZER,GAS:1035324;H2; O2 (Yellow analyser F/R in plant)	No	1		
2,15	FILTER:IN LINE;SQ 292 MM;CHEMICAL FIBRE (square white, door fan filters)	No	2		
2,16	FILTER,ELEMENT:1014142;MICRA ON DRIER (Small O2 Colessor filter cartridge)	No	2		
2,17	VALVE:METERING;6 MM;2000 PSIG; 137 BAR	No	1		
2,18	Solenoid valve vessels - VALVE:SAFETY;3/4 IN;150-350 BAR;DN 6	No	1		
2,19	Regen Flow switch	No	1		
2,20	H2 Regulator	No	6		
2,21	N2 Regulator	No	5		
2,22	Production & Metering panel pressure switch	No	1		
2,23	3 way controle valve to chiller	No	1		
2,24	Receiver safety valve	No	1		
2,25	Bull nose & nut for H2 regulator	No	15		
2,26	Bull nose & nut for N2 regulator	No	10		
	Sub-Total Spares Cost				
	Total Cost				