

SPECIFICATIONS & BRAND FOR MEDICAL GAS PIPELINE SYSTEM

Sl. No	Description of Work / Item(s)	MAKE
1	MEDICAL GAS SYSTEM OXYGEN SYSTEM:- Supply, installation, testing & commissioning of Oxygen Manifold: Main 10+10 Cylinder Oxygen Manifold-WALL MOUNTING TYPE GAS MANIFOLD FABRICATED WITH 5/8"X 15 SWG COPPER PIPE AS PER BS EN 1057 & BRASS BLOCKS AS PER IS 319 EQUALLY SPACED AT 250 MM FITTED ON DULY POWDER COATED MS FRAME (95 X 45) HYDRAULICALLY TESTED AT 300 BAR WITH HIGH PRESSURE NON RETURN VALVE, 1.25 METRE LONG 5/16" X 16G COPPER TAIL PIPE TESTED AT 300 BAR & MIDDLE FRAME FOR OXYGEN	AKTIV / MR ENGG / or Similar Make
2	Supply, installation, testing & commissioning of Emergency Oxygen manifold System :5+5 Cylinder Oxygen Manifold -WALL MOUNTING TYPE GAS MANIFOLD FABRICATED WITH 5/8"X 15 SWG COPPER PIPE AS PER BS EN 1057 & BRASS BLOCKS AS PER IS 319 EQUALLY SPACED AT 250 MM FITTED ON DULY POWDER COATED MS FRAME (95 X 45) HYDRAULICALLY TESTED AT 300 BAR WITH HIGH PRESSURE NON RETURN VALVE, 1.25 METRE LONG 5/16" X 16G COPPER TAIL PIPE TESTED AT 300 BAR & MIDDLE FRAME FOR OXYGEN/ complete along with double stage Regulator .	AKTIV / MR ENGG / or Similar Make
3	Supply, installation, testing & commissioning of Oxygen Control Panel. Control Panel (Fully automatic changeover panel) The Control pannel shall be of fully integrated type with all safety futures inbuilt for high pressure and high flow upto 1350 ltrs / min Oxygen system The Pannel shall have the necessary instruments, gauges, etc. Pressure for manifold system Green signal for Normal Pressure & Red signal for low pressure. Left bank Green signal for Normal Pressure & Red for Low pressure. In Right bank Green signal for Normal Pressure & Red for Low pressure. Main Line Green signal for Normal Pressure & Red for Low pressure.	AKTIV / MR ENGG /or Similar Make
4	Supply, installation, testing & commissioning of Oxygen gas Metal outlets , gas outlet point for oxygen outlet points Conforms to : BS 5682 : 2015, IS / ISO 9170 - 1 : 2017, IS / ISO 7396 - 1 : 2016 + A1 : 2017, HTM 02-01 . Totally leak proof, safe & easy to operate having non interchangeable specific gas/vacum probes equipped with non return valves to facilitate on sevicig and repair. indentification with colour for specific gas/vacum beside name of the gas is punched on its face. BS Type	AKTIV / MR ENGG / or Similar Make
5	Supply, erection, installation, testing & commissioning of anodised aluminium body & control knob oxygen flow meter with Humidifier Bottle. 0-15 L/min standard flow rate. Conforms to : IS / ISO 15002 : 2008, IS / ISO 7396 - 1 : 2016 + A1 : 2017, HTM 02 - 01.	AKTIV / MR ENGG / or Similar Make
6	VACUUM CENTRAL SYSTEM Supply, installation, testing & commissioning of VACCUM SUPPLY SYSTEM COMPLETELY IN ALL RESPECTS make ingersoll rand/Anest lwata/: The pump installation shall be duplex system consisting of 2 (1W+1S BY) .5 HP having 1699 lpm.	INGERSOLL RAND / ANEATA IWATA/or Similar Make
7	VACUUM BACTERIAL FILTERATION : Suitable Medical Vacuum filters are used for removal of bacteria & other contamination from the suction side of vacuum pumps, preventing infection of pump and the atmosphere.	TRIDENT / DOMINIC HUNTER / ANEASTA IWATA/or Similar Make
8	Supply, erection, installation, testing & commissioning of Vacuum Metal Gas outlets, gas outlet point for Vacuum outlet points Conforms to : BS 5682 : 2015, IS / ISO 9170 - 1 : 2017, IS / ISO 7396 - 1 : 2016 + A1 : 2017, HTM 02-01. leak proof safe & easy to operate having non-interchangeable specific gas/vacum probes Equipped with non return valve to facilitate on servicing & repair. identification with colours for specific gas/vacum beside name of the gas is punched on its face. Double locking system.	AKTIV / MR ENGG / or Similar Make
9	Supply installation & testing commissioning of ward vaccum unit with Polycarbonate jar capacity of 700 ml.	AKTIV / MR ENGG / or Similar Make
10	Supply, installation, testing & commissioning of THEATRE SUCTION TROLLEY WITH S.S. STAND, PLASTIC BASE, VACUITY SUCTION REGULATOR & 2200 ML ALL POCYCARBONATE SUCTION LOCK JARS	AKTIV / MR ENGG /or Similar Make

	Supply, installation, testing & commissioning of Medical grade copper tube/pipe the pipe distribution system shall use copper pipe manufactured from phosphorous die oxidised non arsenical copper to BS EN 1412:1996 grade CWO24A (Cu-DHP), manufactured to metric outside diameters and having mechanical properties in accordance with BS EN 13348:2016 in either R250 (half hard) or R290 (hard). degreasing of pipe shall be such that there is less than 20mg/m ² (0.002mg/cm ²) of hydrocarbon on the degreased surface when tested by the method specified BS en 13348:2008. The copper pipes should be Lloyd's/Bsi/TUV tested & certified for the chemical properties as per EN 13348:2016 standard.	MEXFLOW / MANDEV/or Similar Make
11	Copper Pipes of 12mm ODX 0.7mm thk	
12	Copper Pipes of 15mm ODX 0.9mm thk	
13	Copper Pipes of 22mm ODX 0.9mm thk	
14	Copper Pipes of 28mm ODX 0.9mm thk	
15	Copper Pipes of 35mm ODX 1.2mm thk	
	Supply, installation, testing & commissioning of Area Alarm panel & Area Valve Box. Conforms to: IS / ISO 7396-1 : 2016 + A1 : 2017, HTM 02-01 Part A IS / ISO IEC 60601-1 : 2015 + A1 : 2020	
16	Area alarm 2 Gases (1gas + 1 Vacuum)	AKTIV / MR ENGG / or Similar Make
17	Area Valve Box 2 Gases(1-gas +1Vac)	AKTIV / MR ENGG / or Similar Make
18	Supply, installation, testing & commissioning of Master Alarm for Manifold and Plant Room	AKTIV / MR ENGG /or Similar Make
	ISupply, installation, testing & commissioning of line Isolation valves Confirmed to BS EN 331 : 2015, IS / ISO 7396 - 1 : 2016 + A1 : 2017	
19	12mm line isolation valve	AKTIV / MR ENGG / or Similar Make
20	15mm line isolation valve	AKTIV / MR ENGG / or Similar Make
21	22mm line isolation valve	AKTIV / MR ENGG / or Similar Make
22	28mm line isolation valve	AKTIV / MR ENGG / or Similar Make
23	35mm line isolation valve	AKTIV / MR ENGG / or Similar Make