

TATA MEMORIAL CENTER, ACTREC.

Sub : - Supply, Installation, Testing & Commissioning of Pneumatic tube system for RRU and HWCC building at ACTREC.							
Pneumatic tube system for RRU							
Name of Agency							
Sr No.	Item Description	HSN/SAC code	Origin	Unit	Qty	Rate (Rs)	Amount (Rs)
1	SITC of Central Control System Unit for PTS - Software with life time license for more than 50 station with license dongle & Hardware --Micro processor controls for monitoring and coordinating all operation functions of a single/multiple zone system, reversing operation with the following components and functions. For the control/expandble of upto 10 Independent Stations , connected by means of a transfer unit with multi storage devices. Make:- Dell, Lenovo, HP		Indian	Set	1		-
2	Blower Device with Accessories - Three phase blower . For air supply of the system with a transport weight of upto 3000 grams and a transport speed of 5 m / seconds comprising. With all necessary accessories like Slow speed device ,Air reduction System alongwith airtube flexible & carrier stop , Silencer, Vibration absorber, contractor, Thermo relay, Anti Interference set, MSV, elbow, carrier brake etc . Motor -2.3 KW Minimum, 2880 RPM ,or as per OEM Standard Complete in all respect. Make:- Swisslog, Aerocom, Telecom		Imported	Set	1		-
3	Pneumatic - Tube Sation Station OD 110 mm - Suitable for Heavy Carrie Transport , Sending and receiving station , used as end station, tube approaching from above/below. Compact end station with RFID readers & Min 7" colour LCD touch screen Complete in all respect. Make:- Make:- Swisslog, Aerocom, Telecom		Imported	Set	2		-
4	Carrier Receiving Basket upto 5 Carriers - Rust proof Material with shock absorber. Make:- Swisslog, Aerocom, Telecom		Imported	Nos	2		-
5	Accessories for Stations - Carrier rack - Rust proof Material for wall installation horizontally storage of upto 5 carriers. Make:- Swisslog, Aerocom, Telecom		Indian	Nos	2		-
6	Carriers for transport of Radioactive Isotopes fitted with programmed transponders RFID - 110 MM , Imported Make:- Swisslog, Aerocom, Telecom		Imported	Nos	6		-
7	Three way diverter - Pneumatically tight driverter. Absolutely sealed with maintenance free Teflon bushing. Driving by cog-belt. Blocking of the free branches. 3 way diverter with all accessories and fixture . Make:- Swisslog, Aerocom, Telecom		Imported	Set	1		-
8	Switching power pack for the power supply of the system - 230 Volt AC - input. 1 x 24 Volt DC output. Short circuit proof with electronic fusing . Performance - 120 VA, Protection type - 20 IP. OR as per OEMs Standard. Make:- Swisslog, Aerocom, Telecom		Imported	Set	1		-
9	Disptach tube Imported made of weather proof, wear resistant, sound absorbing, hard PVC (Transperent/non Transperent) according to Class B1. Special surface treatment for polished inside and outside wall. Colour - RAL 700, Outside diameter - 160 mm, Wall thickness - 3.2 mm. Including suitable Bends (suitable for offered Carriers) ,connecting steel/pvc sleeves, fastening clamps, cable strips, bends, tube adhesive, solvent etc and all installation accessories. PTS tube with require core cutting in concrete floor slab at require coordinates, & fire sleeving the core cut in approval manner with approval material. Make:- Swisslog, Aerocom, Telecom		Imported	Rmt	60		-
10	Power & Communication cable of suitable size , Fastened along tube run by cable strips. - For the connections of motor , Stations, Diverter and power packs. Specification : as per OEMs standard . Make:- Swisslog, Aerocom, Telecom		Imported	Rmt	600		-
11	Dispatch tube Imported as above - but Transperent		Imported	Rmt	RO		-
12	Pneumatic tube station type Through station OD 110 mm Sending and receiving station , approach from below or above used as through or end station. Complete in all respect.		Imported	Set	RO		-
13	Remote signals Indicator - audible -upto 10 m, visible flashing and buzzing . Complete in all respect		Imported	Nos	RO		-
14	Two way diverter - Pneumatically tight diverter. Absolutely sealed with maintenance free Teflon bushings. Driving by cog/teeth belt. Blocking of the free branch. 2 way diverter with all accessories and fixture . Make:- Swisslog, Aerocom, Telecom		Imported	Set	RO		-
					Total (exclusive of GST) (A)		-
15	Comprehensive Maintanance Contract for a period 10 years to commence on exhaustion of DLP period(DLP period of 12 months After completion of Project)						-
1	Comprehensive Maintenance Contract - 1 st Year			Lot	1		-
2	Comprehensive Maintenance Contract - 2 nd Year			Lot	1		-
3	Comprehensive Maintenance Contract - 3 rd Year			Lot	1		-
4	Comprehensive Maintenance Contract - 4 th Year			Lot	1		-
5	Comprehensive Maintenance Contract - 5 th Year			Lot	1		-
6	Comprehensive Maintenance Contract - 6th Year			Lot	1		-
7	Comprehensive Maintenance Contract - 7th Year			Lot	1		-

8	Comprehensive Maintenance Contract - 8th Year			Lot	1		-
9	Comprehensive Maintenance Contract - 9th Year			Lot	1		-
10	Comprehensive Maintenance Contract - 10th Year			Lot	1		-
Total (exclusive of GST) (B)							-

Name of Agency							
Pneumatic tube system for HWCC							
S.No.	Description		Origin	Unit	Qty of Station	Rate	Amount
1.0	Central Control Station for 5kG payload, 3-5M/Sec speed, 19 current +6 Future stations Make:- Dell, Lenovo, HP		Indian	Set	1		-
1.1	Supply, Installation & Testing, Commissioning, Training & DLP of PTS workstation with all peripherals. REFER TECH SPECS						-
1.2	Supply in sea worthy packing, Installation, configuration & Testing & configuring & Commissioning, Training, DLP of PTS Control & Monitoring Software with life time license for more than 50 stations with License Dongle. Make:- Swisslog, Aerocom, Telecom REFER TECH SPECS		Imported	Nos	1		-
2.0	Power packs		Imported				-
2.1	Supply in sea worthy packing, Instalation, Testing, Commissioning, Training, DLP of 230V-415 to 36 -40 LVDC supply to enhance the Communication System Network signal booster and DC Volt power booster at strategic locations in the facility. Make:- Swisslog, Aerocom, Telecom REFER TECH SPECS			Nos	4		-
3.0	Stations		Imported				-
3.1	Supply in sea worthy packing, Installation, configuration, Testing & commissioning, Training, DLP Compact End Station with RFID readers & minimum 7" colour LCD Touch Screen with all fixing accessories. Make:- Swisslog, Aerocom, REFER TEST SPECIFICATIONS			Nos	19		-
4.0	Supply, Installation, commissioning of Carrier receive Basket with cushion.		Indian	Nos	19		-
5.0	Supply, Installation, Testing, configuration & commissioning, Training, DLP of Carriers 330 mm long (suitable for load up to 5 kG) fitted with configured RFID (Transponder) for identification for use in 160mm UPVC Tube system.		Imported				-
5.1	Supply in sea worthy packing, Installation, configuration, Testing & commissioning, Training, DLP of Transparent with secure swivel lock cap Carrier duly color coded to define the transportation of the material. Make:- Swisslog, Aerocom, Telecom REFER TECH SPECS		Imported	Nos	76		-
5.2	Supply in sea worthy packing, Installation, configuration, Testing & commissioning, Training & DLP of Leak-proof Carrier duly colour coded for Urine samples and other infected samples. Make:- Swisslog, Aerocom, Telecom		Imported	Nos	19		-
5.3	Supply in sea worthy packing, Installation of Carrier Support for keeping minimum FIVE carriers.		Indian	Nos	19		-
6.0	Diverter:- Make:- Swisslog, Aerocom, Telecom						-
6.1	Supply in sea worthy packing, Installation, configuration, Testing & commissioning, Training, DLP of 4- way - DIVERTER with all accessories & fixture		Imported	Nos	1		-
6.2	Supply in sea worthy packing, Installation, configuration, Testing & commissioning, Training, DLP of 3- way - DIVERTER with all accessories & fixture		Imported	Nos	11		-
6.3	Supply in sea worthy packing, Installation, configuration, Testing & commissioning, Training, DLP of 2- way - DIVERTER with all accessories & fixture		Imported	Nos	5		-
7.0	Supply in sea worthy packing, Installation, configuration, Testing & commissioning, Training, DLP of Blower station with all accessories Make:- Swisslog, Aerocom, Telecom		Imported				-

7.1	240 /415V 50/60Hz 4/4.6kw for air-supply of the system and a transport speed between 3M/Sec to 6 M/Sec: Blower with three-phase-motor, heavy duty maintenance-free motor operated, immediate air-reversal for pressure and vacuum operation (without changing the direction of the motor-rotation). With automatically zero position for pneumatically deceleration. Built-in silencer & all connected accessories (Vibration absorber, Contractor, Thermo relay, Anti Interference set, MSV, Silencer , Elbow & Carrier Brake device) fully enclosed compact-construction, as a standard for floor installation or with console for wall-mounting. REFER TECH SPECS			Nos	1		-
7.2	Full blower kit as in item 8.1 as ready to install & use spare.			Nos	1		-
8.0	Supply in sea worthy packing, Installation, configuration, Testing & commissioning, Training, DLP of 160 mm PTS Tubes with clamps (approx 3500mtr), support structure with all accessories including core cutting in concrete floor slab at the required coordinates & fire sleeving the core cut in approved manner with approved materials. Make:- Swisslog, Aerocom, Telecom		Imported				-
	Disp Tube 160x3.2, NW160 PVC -grey- Non transparent , Standard delivery length 5m. DIN certified, including insulation work at required locations, in case sweating is observed any time during 3 year			Mtrs	400		-
	Disp Bend 160x3.2, NW160 R-800 PVC grey.						
	Connecting sleeve NW160 PVC						
	Steel Clip basic NW160 D160 MB						
	Control cable 3x2x0.6 J						
	Tube adhesive PVC (Imported)						
	Solvent for PVC						
8.1	Disp Tube 160x3.2, NW160 PVC - transparent , Standard delivery length 5m. DIN certified, including insulation work at required locations, in case sweating is observed any time during 3 year			Mtrs	130		-
	Disp Bend 160x3.2, NW160 R-800 transparent.						
	Connecting sleeve NW160 PVC						
	Steel Clip basic NW160 D160 MB						
	Control cable 3x2x0.6 J						
	Tube adhesive PVC (Imported)						
	Solvent for PVC						
9.0	Supply in sea worthy packing, Installation, Testing, Commissioning, Training, DLP of Communication and Low Voltage Power wiring (approx 4000mtr) with adapters, boosters and all accessories. Make:- Swisslog, Aerocom, Telecom		Imported	Mtrs	400		-
Total (Exclusive of GST) (C)							-
10	Comprehensive Maintenance Contract for a period 10 years to commence on exhaustion of DLP period(DLP period of 12 months After completion of Project)						
10.01	CMC of 1st year after warrantee			Lot	1.00		-
10.02	CMC of 2nd year after warrantee			Lot	1.00		-
10.03	CMC of 3rd year after warrantee			Lot	1.00		-
10.04	CMC of 4th year after warrantee			Lot	1.00		-
10.05	CMC of 5th year after warrantee			Lot	1.00		-
10.06	CMC of 6th year after warrantee			Lot	1.00		-
10.07	CMC of 7th year after warrantee			Lot	1.00		-
10.08	CMC of 8th year after warrantee			Lot	1.00		-
10.09	CMC of 9th year after warrantee			Lot	1.00		-
10.10	CMC of 10th year after warrantee			Lot	1.00		-
Total (Exclusive of GST)(D)							-

Total Cost (A+B+C+D) (Exclusive of GST)	-
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NOTE:

- 1 The agency is requested to visit the site to know actual scope of work.
- 2 Rate shall be basic and GST as applicable.
- 3 Material required at site should be assessed by the agency and bill will not be settled for excess/supplied items.
- 4 Bill will be settled as per actual measurement.
- 5 Deviations/suggestions may be put on separate page in order to attain higher quality performance. Component authority reserves full right to accept or reject any kind of changes.
- 6 Agency will have to prepare detailed drawing/ plan of work & obtained approval before execution. Agency will have time bound work schedule for carrying out the work.
- 7 Agency will have guarantee of at least 1 years for all installation **after completion of project.**

- 8 Agency will have to maintain the installation by undertaking preventive maintenance on regular basis for smooth operation during defect liability period. **Montly service** to be provided during defect liability period.
- 9 Payment will be released for consumed quantity on satisfactory completion on providing necessary certifications/documentation.
- 10 all above items of this schedule shall be standard make and approved to before installation.
- 11 Payment will be released for consumed quantity on satisfactory completion providing necessary certifications/documentation. Etc.
- 12 Civil work require for the project is in a scope of contractor no additional cost will be given for the same.
- 13 Price include with seaworthy packing, Fright, insurance, custom duty etc excluding GST.
- 14 Apart from the BOQ some additional item is require to complete the project that should be consider without any additional cost.
- 15 Agency has prepare detail drawing and certified with end user and officer-in -charge before execution of project.

GUIDELINES FOR CMC:

- 1. Monthly servicing shall be done for complete set up and report submitted to the Engineering-In-Charge.
- 2. Response time in case of fault should not be more than 4 Hrs.
- 3. Agency shall visit the set up monthly and as and when required.
- 4. No extra charges shall be paid on account of visits to site for maintenance or for attending the fault.
- 5. Agency will be entirely responsible for undertaking the maintenance as well as fault detection & repairs/rectification and finish the same in specific time frame.
- 6. Contractors are requested to note that this is a Hospital Site & service shall be rendered accordingly to maintain the system working for all 24 Hrs.
- 7. Payment shall be released against satisfactory completion of each quarter.
- 8. Agency is allowed to keep some spare parts at site for emergency replacement, however entire responsibility will be held with agency.
- 9. Agency will be responsible for performance of the system after replacement of spare parts.
- 10. Rate shall be basic and GST as applicable.
- 11. Agency has to visit the site to know the actual scope of work before quote.
- 12. Cheking operation of all controls.
- 13. Purchase order will be issue every year after successfully completed CMC for current year.
- 14. Open up the electrical control panel, inspect for any blackening of contacts, loosening of connections, component condition etc. rectify if any abnormality is noticed.