

All Bidders**Amendment -IX**

Subject: Supply, Installation, Testing and Commissioning of Pneumatic Tube Transport System at Surgical Block, All India Institute of Medical Sciences (AIIMS), New Delhi.

IFB No. : HSCC/SES/PTTS/Surgical/AIIMS/2015

This has reference to above IFB No. for the Subject works.

The following Amendment may be noted which shall be treated as part of the tender document and to be submitted duly signed & stamp along with tender.

PTTS AIIMS SURGICAL BIDDERS QUERY

Sr. No.	Bidder's Query	Clarification/Amendment
	M/s PES INSTALLATIONS PVT. LTD.	
1.	<p><u>(5.2) PREQUALIFICATION DOCUMENT</u></p> <p>As this is in an AIIMS tender the term & condition should be same as that of the AIIMS tender. In recent tenders of AIIMS, It is mentioned that the firm should not stand deregistered / banned / blacklisted by any government authorities/organisation. We are enclosing the copy of AIIMS orthopaedic tender same clause are mentioned in the HLL, CPWD, PWD, Railway, Central Government tender etc. Copy of some tenders is attached.</p> <p>We would request you to change this clause to the firm should not stand blacklisted/debarred on the date of submission of tender .</p>	Tender Terms Prevail.
2.	<p><u>(APPLICATION FORM NO.- 02, POINT - 09) PREQUALIFICATION DOCUMENT</u></p> <p>Should be change to if the applicant stand debarred/blacklisted in any organisation give details.</p>	Tender Terms prevail.
3.	<p><u>(PART– II, PAGE NO. - 04) BILL OF QUANTITIES</u></p> <p>Operation of Pneumatic Tube Transportation System please specify the number of man power required in each shift.</p>	Mentioned in the attached sheet

4.	<u>(PART – III, PAGE NO. - 04) BILL OF QUANTITIES</u> Operation should be deleted and it should be only comprehensive charges for the complete Pneumatic Tube Transport System Equipment including spares, repair or replacement of defective equipments/parts, tolls, tackles, accessories, consumables, labour charges etc.	Format for Operation and CMC will be separated for quoting. Revised BOQ attached.
5.	<u>(SR. NO. – 6, 2nd Para) VOLUME – IV, TECHNICAL SPECIFICATION</u> The Pneumatic Station should be controlled by the use of the integrated Touch Panel Display for the following features. It should be changed to touch / membrane type panel display as its specific to one brand.	Touch / membrane type panel display
6.	<u>(SR. NO. – 6 A) VOLUME – IV, TECHNICAL SPECIFICATION</u> It should be changed to touch/membrane type screen display as specific to one brand.	Touch/membrane type screen display
7.	<u>(SR. NO. – 6 B) VOLUME – IV, TECHNICAL SPECIFICATION</u> It should be changed to touch/membrane type panel as specific to one brand.	Touch/membrane type screen display
8.	<u>(SR. NO. – 6 D) VOLUME – IV, TECHNICAL SPECIFICATION</u> It should be changed to touch/membrane type screen display as specific to one brand.	Touch/membrane type screen display
9.	<u>(SR. NO. – 09) VOLUME – IV, TECHNICAL SPECIFICATION</u> The dimension of the tube is 160mm. So, it can't be 180mm.	Dimension of tube shall be 160mm
10.	<u>(SR. NO. – 18, 2nd Line) VOLUME – IV, TECHNICAL SPECIFICATION</u> The Indian distributor should be in the field of Medical supply for minimum 5 years & OEM should be in the field of Pneumatic Tube System for at least one decade with more than 100 installation all over the world & at least 5 installations in India. It should be changed to 'The Indian distributor should be in the field of Pneumatic Tube System for minimum 5 years & OEM should be in the field of Pneumatic Tube System for at least one decade with more than 100 installation all over the world & at least 5 installations in India'.	Tender terms prevail
	<u>M/s Narula Udyog (India) Pvt. Ltd.</u>	
11.	1. Please find enclosed the suggested BOQ which is in sync with the specifications given in the tender.	BOQ as proposed is included. Revised BOQ is attached.

S.No.	Item Description	Qty.	
1.	Main Control Unit: Including Hardware, Software Package with License key for Programming, Real Time Monitoring & RFID software (With P.C.)	1	
2.	Diverter 160 mm: 3-Way, Air Tight, With Touch Free Position and Tube Switches, Steel Housing, with optical Sensors.	5	
3.	Side channel Blower 2.6 kw with Variable Frequency Drive and Attachments: Other Attachments: Air Diverter, to switch between Vacuum and Compression, Carrier By-Pass & Pressure Switch Requires: 400 Volts, 3 Phase connectivity, Including the following	3	
	BLOWER	3	
	AIR DIVERTER	3	
	FREQUENCY-CONTROLLER, FOR 160 mm SYSTEMS, 2.6 KW, 230 V (PROGRAMMED TO 75 HERTZ)	3	
	BLOWER CONNECTING SET	3	
	BLOWER MOUNTING BUFFER	6	
	BYPASS	3	
	AIR HOSE (PRICE PER METER)	3	
	REDUCTION AIR DIVERTER	6	
	REDUCTION	3	
	HOSE CLAMP	12	
	HOSE CLAMP	24	
	PRESSURE SWITCH	3	

	SLEEVE	15	
	Sound Proof Box	3	
4.	Station NW 160mm: Top-load station, Pass through type, Display: Easy Touch Panel. Including RFID Reader Circuit Board and with Optical Tube Sensors.	18	
5.	Station NW 160 mm: Top- Auto Unload		
6.	Station NW 160mm (Compact End): Bottom-Load 'Compact' Station, End type with back sending function, Display: Touch Screen Panel. Including RFID Reader Circuit Board and with Optical Sensors.	1	
7.	Interchange: Can connect uo to 5 lines	1	
8.	Carriers 160 mm as follows:		
	Carrier 160MM, With 2 PROGRAMMABLE RFID TAG FOR EASY RETURN OF EMPTY CARRIER. INLOAD SIZE: 330X115. Colour: YELLOW	20	
	Carrier 160MM, With 2 PROGRAMMABLE RFID TAG FOR EASY RETURN OF EMPTY CARRIER. INLOAD SIZE: 400X115. Colour: YELLOW	20	
	CARRIER 160 AUTOMATIC OPENING ON BOTH ENDS, INCLUDING 2XCODE-TAGS	17	
9.	CARRIER ARRIVAL INDICATOR	20	
10.	Tubing Material & Other Accessories including the following:-		
	TUBES GREY-160 MM	300	
	TUBES GREY-AIR TUBE-110 MM	30	
	TUBES-160 MMTRANSPARENT	20	
	BENDS GREY-160 MM-R=800	105	

	ENDPIECE BELOW-160 MM	1
	ENDPIECE ABOVE-160MM,WITH AIR-CONNECTION 110 mm	1
	SLEEVE GREY-160 MM	410
	SPECIAL ADHESIVE GLUE	15
	CLEANER FOR PVC-TUBE(1 LITER)	6
	COMPOSITE SYSTEM CABLE-KS 118	600
	PIPECLAMP-STEEL-160 MM TUBE	255
	PIPECLAMP-STEEL-110 MM TUBE	15
	SCREW BOLTS 2 MTR LENGTH	128
	CABLE TIE/CLIP 300 MM	915
	90 DEG. BENDS FOR AIR TUBE-110 MM	15
	DOWEL-M10	306
	CONDUIT FOR CABLE-PVC	478
	CARRIER RACK-STEEL POWDER COATED	19
	BASKET WITH MOUNTING BAR- STEEL POWDER COATED- Full Base	1
	BASKET WITH MOUNTING BAR- STEEL POWDER COATED- with Cut FOR Tube	18
	CUSHION FOR BASKET-FOAM-Full Base	1
	CUSHION FOR BASKET-FOAM- with Cut FOR Tube	18
	EPROUVETTE INSERT FOR CARRIER 160 – PU Foam	57
	INSERT FOR AUTO UNLOAD STATION: ZIP LOCK TYPE	500

12	<p>Suggested Payment Terms:-</p> <p><u>Imported materials (CIF VALUE)</u> 100% against ILC, with the following breakup, in foreign currency:- 90% shall be paid against proof of dispatch/Bill of Lading Balance 10% after successful commissioning</p> <p><u>Indian materials</u> 100% on delivery on Pro-rata basis Cost of installation As per the stages of installation on pro-rata basis.</p>	Tender Terms & Conditions prevail.
13.	<p>Page No - SCC 35 Clause 11.0 This clause is not applicable to Pneumatic Tube System and should be removed</p>	Tender Terms & Conditions prevail.
14.	<p>Page No – SCC 36 Clause 14.0 Operation & Maintenance is not required in the case of Pneumatic Tube System & should be removed</p>	Tender terms prevail. Format for Operation and CMC will be separated for quoting.
15.	<p>Some modifications required in the Technical Specifications :-</p> <p>Specification for the Installation of Pneumatic Tube Transport System</p> <p>7. Security Carriers should be secured during both the send and receive operations. Carriers to be sent should be loaded behind the guard door which should locked on transaction, ensuring a carrier waiting to be sent should not accessible. Carriers should be received into a secure receiving cabinet accessible only by key lock or digital PIN code. In addition, arrival signal units can be programmed to discriminate to different user addresses, thereby allowing urgent full carriers to be immediately notified to the user, whilst allowing no alarm for empty returns. The use of different addresses allows different priorities to be given to different carriers, thereby reducing waiting times for sensitive items. The use of the station may be restricted by a user identifiable touch key. This feature should allow only authorized users access to the system, and records each individual user by name.</p>	

	<p>Bidder's Query:- Carriers should be secured during both the send and receive operations. Carriers should be received into a secure receiving cabinet accessible only by key lock or digital PIN code only in select stations. In addition, arrival signal units can be programmed to discriminate to different user addresses, thereby allowing urgent full carriers to be immediately notified to the user, whilst allowing no alarm for empty returns. The use of different addresses allows different priorities to be given to different carriers, thereby reducing waiting times for sensitive items. The use of the station may be restricted by a user identifiable touch key. This feature should allow only authorized users access to the system, and records each individual user by name.</p> <p>Remarks:- Having a Guard would mean, if anybody wants cancel the transaction, due to any reason, would not have access to the carrier. So Door should not be there on Stations. Having Secure Receiving Cabinet on every station will be a big inconvenience to the users. Only select areas with vital receiving should have this option (If required)</p>	<p>Carriers should be secured during both the send and receive operations. Carriers should be received into a secure receiving cabinet accessible only by key lock or digital PIN code only in select stations. In addition, arrival signal units can be programmed to discriminate to different user addresses, thereby allowing urgent full carriers to be immediately notified to the user, whilst allowing no alarm for empty returns. The use of different addresses allows different priorities to be given to different carriers, thereby reducing waiting times for sensitive items. The use of the station may be restricted by a user identifiable touch key. This feature should allow only authorized users access to the system, and records each individual user by name.</p> <p>Door should not be on Stations.</p>
16.	<p>12. EXHAUSTERS</p> <p>Suitable exhausters should be supplied, one per system. The exhausters should be mounted on anti-vibration mountings. The capacity of the exhauster should be suitable to ensure that the required performance can be maintained throughout the system.</p> <p>Suggested Specifications:- 12. Side Channel Blower It should have a separate Blowers 2.6 KW, 3 phase 400v/50Hz, 2850 rpm, 220 mbar pressure, 5.1 m3/min for flow rate, with low noise, unidirectional rotation with electronic air switch to switch between compressed air and vacuum. Each blower should be provided with Frequency Converter for</p>	<p>Side Channel Blower Separate Blowers 2.6 KW, 3 phase 400v/50Hz, 2850 rpm, 220 mbar pressure, 5.1 m3/min for flow rate, with low noise, unidirectional rotation with electronic air switch to switch between compressed air and vacuum. The blower should be set go up to 75Hz with the help of Frequency Converter. It should be provided with all</p>

	<p>Control of slow speed for sensitive laboratory samples by frequency control of Compressor. The blower should be set go up to 75Hz with the help of Frequency Converter.</p> <p>Frequency converter should help the system to run on blowers of 2.6 Kw.</p> <p>It should be provided with all the mounting accessories and soundproof enclosure.</p> <p>Remarks:- The Specifications were not very clear & the nomenclature was not correct.</p>	the mounting accessories and soundproof enclosure.
17.	<p>15. Linear coupler</p> <p>The system should provide an excellent throughput and has fast transfer capabilities.</p> <p>Should have following features :</p> <ul style="list-style-type: none"> ▪ That allows the Carrier containing Emergency Samples to overtake the other carriers. ▪ Has chambers with extra empty carriers and any user can call for it from the station, by ▪ simply dialing a number. ▪ That allows 5 carriers to shoot out from transfer zone, simultaneously. ▪ Having 10 storage units for different carriers. ▪ Keeps the storage units vacant for the Emergency Carriers. ▪ Occupies a less space. ▪ Can connect up to 5 lines. <p>Remarks:- This is a repetition of S. No. 13. Interchange is a generic term & Linear coupler is a Term used by a specific Brand. Hence, Since the specifications are same, S. No. 15 may be deleted</p>	Linear Coupler deleted
	<u>M/s BENSON MEDICAL</u>	
18.	<p>Reference to the pre-qualification requirement, on page 5 of clause no. 2.0, 2.1 & 2.2 should be amended as that Indian distributor can also submit their qualification certificate along with its foreign manufacturer worldwide to fulfill the criteria because majority of items ask in the tender are imported with these globally available foreign manufacturer will also be able to bid their product through their Indian representative. This is not only giving competition to the companies which are present in India and also avoid scope of cartelization among the present company in India.</p>	Tender Terms & conditions prevail.

Bidder should follow the tender terms & condition for the unanswered queries.

The bid submission date is extended from 02.05.2016 to 05.05.2016 and bid security should be valid for 180 days from the date of bid submission ie. from 05.05.2016.

All other terms & conditions remain unchanged.

Chief General Manager

For & on behalf of Director (AIIMS)

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES
NEW DELHI**

e- TENDER

FOR

**Supply, Installation, Testing & Commissioning of Pneumatic Tube
Transport System at Surgical Block at All India Institute of Medical
Sciences, New Delhi**

VOLUME –V

BILL OF QUANTITIES (BOQ)

DECEMBER 2015



(Consultants & Engineers for Mega Hospitals & Laboratories)
E - 6 (A), Sector - I, NOIDA (U.P.) - 201 301 (INDIA)

PHONE : 0120-2542436, 2542437 FAX : 0120-2542447
E- mail : www.hsccltd.co.in

Tender No. HSCC/SES/PTTS/Surgical/AIIMS/2015

BILL OF QUANTITY

Package - Supply, installation, Testing and commissioning of Pneumatic Tube Transport System and one (1) year Defect liability period

PART-I

Item No.	Description 2	Unit 3	Qty 4	Unit Rate In Rs (in Figure) 5	Unit Rate in Rs (in Words) 6	Amount (Rs.) (In Figure) 7
1.	Main Control Unit: Including Hardware, Software Package with License key for Programming, Real Time Monitoring & RFID software (With P.C.)	Nos	1			
2.	Diverter 160 mm: 3-Way, Air Tight, With Touch Free Position and Tube Switches, Steel Housing, with optical Sensors.	Nos	5			
3.	Side channel Blower 2.6 kw with Variable Frequency Drive and Attachments: Other Attachments: Air Diverter, to switch between Vacuum and Compression, Carrier By-Pass & Pressure Switch Requires: 400 Volts, 3 Phase connectivity, Including the following	Nos	3			
	BLOWER	Nos	3			
	AIR DIVERTER	Nos	3			
	FREQUENCY-CONTROLLER, FOR 160 mm SYSTEMS, 2.6 KW, 230 V (PROGRAMMED TO 75 HERTZ)	Nos	3			
	BLOWER CONNECTING SET	Nos	3			
	BLOWER MOUNTING BUFFER	Nos	6			
	BYPASS	Nos	3			
	AIR HOSE (PRICE PER METER)	Rmt	3			
	REDUCTION AIR DIVERTER	Nos	6			
	REDUCTION	Nos	3			
	HOSE CLAMP	Nos	1			
	HOSE CLAMP	Nos	24			
	PRESSURE SWITCH	Nos	3			
	SLEEVE	Nos	15			
	Sound Proof Box	Nos	3			
4.	Station NW 160mm: Top-load station, Pass through type, Display: Easy Touch Panel. Including RFID Reader Circuit Board and with Optical Tube Sensors.	Nos	18			

Package - Supply, installation, Testing and commissioning of Pneumatic Tube Transport System and one (1) year Defect liability period	
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PART-I

Item No.	Description 2	Unit 3	Qty 4	Unit Rate In Rs (in Figure) 5	Unit Rate in Rs (in Words) 6	Amount (Rs.) (In Figure) 7
5.	Station NW 160 mm: Top- Auto Unload	Nos	1			
6.	Station NW 160mm (Compact End): Bottom-Load 'Compact' Station, End type with back sending function, Display: Touch Screen Panel.	Nos	1			
7.	Interchange: Can connect uo to 5 lines	Nos	1			
8.	Carriers 160 mm as follows:					
	Carrier 160MM, With 2 PROGRAMMABLE RFID TAG FOR EASY RETURN	Nos	20			
	Carrier 160MM, With 2 PROGRAMMABLE RFID TAG FOR EASY RETURN OF EMPTY CARRIER. INLOAD SIZE: 400X115. Colour: YELLOW	Nos	20			
	CARRIER 160 AUTOMATIC OPENING ON BOTH ENDS, INCLUDING 2XCODE-TAGS	Nos	17			
9.	CARRIER ARRIVAL INDICATOR	Nos	20			
10.	Tubing Material & Other Accessories including the following:-					
	TUBES GREY-160 MM	Rmt.	300			
	TUBES GREY-AIR TUBE-110 MM	Rmt	30			
	TUBES-160 MM TRANSPARENT	Rmt.	20			

Package - Supply, installation, Testing and commissioning of Pneumatic Tube Transport System and one (1) year Defect liability period

PART-I

Item No.	Description 2	Unit 3	Qty 4	Unit Rate In Rs (in Figure) 5	Unit Rate in Rs (in Words) 6	Amount (Rs.) (In Figure) 7
	BENDS GREY-160 MM-R=800	Nos	105			
	ENDPIECE BELOW-160 MM	Nos	1			
	ENDPIECE ABOVE-160MM,WITH AIR-CONNECTION 110 mm	Nos	1			
	SLEEVE GREY-160 MM	Nos	410			
	SPECIAL ADHESIVE GLUE	Nos	15			
	CLEANER FOR PVC-TUBE(1 LITER)	Nos	6			
	COMPOSITE SYSTEM CABLE-KS 118	Rrmt.	600			
	PIPECLAMP-STEEL-160 MM TUBE	Nos	255			
	PIPECLAMP-STEEL-110 MM TUBE	Nos	15			
	SCREW BOLTS 2 MTR LENGTH	Nos	128			
	CABLE TIE/CLIP 300 MM	Nos	915			
	90 DEG. BENDS FOR AIR TUBE-110 MM	Nos	15			
	DOWEL-M10	Nos	306			
	CONDUIT FOR CABLE-PVC	Rmt	478			
	CARRIER RACK-STEEL POWDER COATED	Nos	19			
	BASKET WITH MOUNTING BAR- STEEL POWDER COATED-Full Base	Nos	1			
	BASKET WITH MOUNTING BAR- STEEL POWDER COATED-with Cut FOR Tube	Nos	18			
	CUSHION FOR BASKET-FOAM-Full Base	Nos	1			
	CUSHION FOR BASKET-FOAM- with Cut FOR Tube	Nos	18			

Package - Supply, installation, Testing and commissioning of Pneumatic Tube Transport System and one (1) year Defect liability period

PART-I

Item No.	Description 2	Unit 3	Qty 4	Unit Rate In Rs (in Figure) 5	Unit Rate in Rs (in Words) 6	Amount (Rs.) (In Figure) 7
	EPROUVETTE INSERT FOR CARRIER 160 –PU Foam	Nos	57			
	INSERT FOR AUTO UNLOAD STATION: ZIP LOCK TYPE	Nos	500			
Part-II						
	Operation of Pneumatic Tube Transport System	Nos	1.00			
					SUB TOTAL Rs.	
					TOTAL Rs.	
Part-III						
Item No.	Description 2	Unit 3	Qty 4	Unit Rate In Rs (in Figure) 5	Unit Rate in Rs (in Words) 6	Amount (Rs.) (In Figure) 7
1.0	Operation (24x7) for the complete Pneumatic Tube Transport System Equipment etc. complete in all respect after completion of Defect Liability Period as per the contract.					
	Ist Year					
	2nd Year					
	3rd Year					
	4th Year					
2.0	Comprehensive Maintenance Charges for the complete Pneumatic Tube Transport System Equipment including spares, repair or replacement of defective equipments/parts, tolls, tackles, accessories, consumables, labour charges etc. complete in all respect after completion of Defect Liability Period as per the contract.					
	Ist Year					

Package - Supply, installation, Testing and commissioning of Pneumatic Tube Transport System and one (1) year Defect liability period

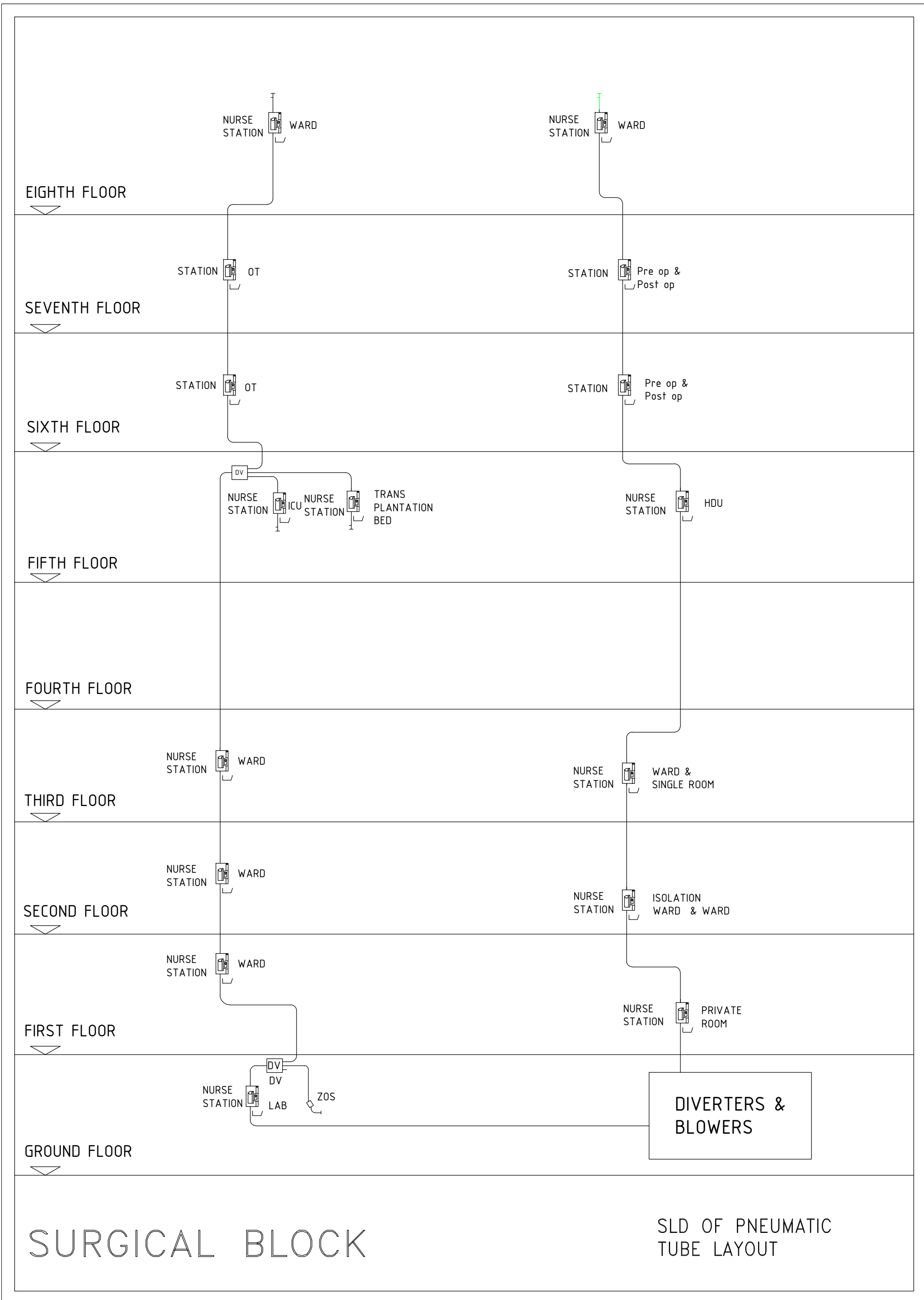
PART-I						
Item No.	Description	Unit	Qty	Unit Rate In Rs (in Figure)	Unit Rate in Rs (in Words)	Amount (Rs.) (In Figure)
	Ist Year	Job	1			
	2nd Year	Job	1			
	3rd Year	Job	1			
	4th Year	Job	1			
SUB TOTAL Rs.						
SUMMARY OF RATES QUOTED						
1	TOTAL (PART-I)					
2	TOTAL (PART-II)					
3	TOTAL (PART-III)					
Grand Total Amount (PART - I + PART - II+ PART-III) (in Figures) :-						
In words : Rupees						

Date

Signature of Bidder
Name of Bidder

MANPOWER PLANNING**PTTS**

S.No.		Morning	Day	Night
1.	Skilled Operator	1	1	1
2	Supervisor	1	1	



SURGICAL BLOCK

SLD OF PNEUMATIC TUBE LAYOUT