



Running Contract Details	
Equipment Name	X-Ray Machine 30 KW
Running Contract Valid Till	05-12-2025
Tender Ref No	KMSCL/EP/T469/148B/2022
Tendered Quantity	20
Supplier Name	M/s Allengers Medical Systems Ltd.
GST No	03AABCA2332H1ZE
Installation & Delivery Period	8 Week(s)
Up-time / PM vist	95% & 4 Visits per year
Warranty period	3 Years

Supplier`s Details		
Address	Contact Details	
SCO-212-213-214 Sector 34 A Chandigarh-UT.160022	Contact Person	Sujith Babu
	Phone	
	Mobile No	9946618748
	Email	sujit.babu@allengers.net

Item-wise Price Details				
#	Item Details	Unit Rate (Incl.all taxes & charges)	Service Charges (Through KMSCL)	Grand Total
1	<b>X-Ray Machine 30 KW</b> <i>Model &amp; Make : MARS - 30 / Allengers Medical Systems Ltd</i>	776160 Incl.GST :12%	57241.8	833401.8
2	<b>Floating table</b>	95200 Incl.GST :12%	7021	102221
3	<b>6 way table</b>	210000 Incl.GST :12%	15487.5	225487.5
4	<b>Three fold X-ray protection barrier</b>	21952 Incl.GST :12%	1618.96	23570.96
5	<b>Light weight lead apron with thyroid gaurd</b>	5183.36 Incl.GST :12%	382.27	5565.63
6	<b>Gonad Shield</b>	675.36 Incl.GST :12%	49.81	725.17
7	<b>Light weight high speed cassette (15x 12)</b>	6160 Incl.GST :12%	454.3	6614.3

Item-wise Price Details							
8	Light weight high speed cassette (12 x 10)	4256 Incl.GST :12%	313.88	4569.88			
9	Light weight high speed cassette (10 x 8)	3136 Incl.GST :12%	231.28	3367.28			
10	Free standing chest stand and cone for skull X-rays	6720 Incl.GST :12%	495.6	7215.6			
11	X-ray View Box LED Double	10080 Incl.GST :12%	743.4	10823.4			
12	Suitable capacity stabiliser as per spec	48160 Incl.GST :12%	3551.8	51711.8			
		<b>1187682.72</b>	<b>87591.6</b>	<b>1275274.32</b>			
Annual / Comprehensive Maintenance Charges (Exl.Tax)							
Rate	4 <sup>th</sup> Year	5 <sup>th</sup> Year	6 <sup>th</sup> Year	7 <sup>th</sup> Year	8 <sup>th</sup> Year	9 <sup>th</sup> Year	10 <sup>th</sup> Year
<b>X-Ray Machine 30 KW</b>							
Labour	20,774.00	21,813.00	22,903.00	24,049.00	25,251.00	26,514.00	27,839.00
Comprehensive	41,548.00	43,626.00	45,807.00	48,097.00	50,502.00	53,027.00	55,679.00

### **Other terms & conditions**

1. The supplier shall execute an agreement with the purchaser as per tender conditions (agreement format is given in the tender document).
2. The supplier shall submit performance security amounting to 5.00% of the value of the supply order.
3. The labour & comprehensive charges of equipment after the completion of warranty period is finalized by KMSCL as mentioned above.
4. Since discount rate is not applicable for equipment under Running Contract of KMSCL, purchase/supply order can be issued directly to supplier at the given rate with tax & other charges (exclusive of KMSCL service charges).
5. If purchase/supply order is issued directly to the supplier, KMSCL service charge need not be paid. But the copy of the said order may be forwarded to KMSCL for information.

### **Technical Specification**

#### **Equipment :X-Ray Machine 30 KW**

I

#### **X-Ray Generator:**

- a. High frequency X-Ray generator
- b. Inverter frequency – 20 KHz or more
- c. Output power 30KW or more
- d. KV Range – 40 to 125KVp
- e. mA range – up to 300 mA or more
- f. 300mA @ 100KV or better
- g. mAs range – 2 to 200 mAs

h. Over Load Protection

- II
- i. Digital Display
- X-Ray tube:**
- a. Rotating anode
- b. Focal Spot : Small 0.6mm x 0.6mm, Large 1.2mm x 1.2mm.
- c. One pair of High tension cable (at least 8 meters)
- d. Collimator with full field illumination and angle indicator with auto shut off
- e. Anode heat capacity should be 300KHU or more

- III
- Table:**
- a. The table should be horizontal floating type
- b. Bucky table with floating table top with immense flexibility and ease in positioning
- c. Table top positioning with release of electromagnetic brakes controlled with a foot operated lever
- d. Table Height – 75 cm ( $\pm 5\%$ )
- e. Table top – 218 x 80 cm ( $\pm 10\%$ )
- f. Table top should be made up of low radiation absorption, water proof material, stain free
- g. Longitudinal Travel:  $\pm 40$  cm ( $\pm 2\%$ )
- h. Transverse Travel :  $\pm 12.5$  cm ( $\pm 2\%$ )
- i. Electromagnetic locking of the table movement

- IV
- Bucky:**
- a. Grid 10:1, 60 lines / cm, focused at 100 to 120 cm / suitable range
- b. 50 cm travel; movement arrested by electromagnetic brakes
- c. Tube shall be centered to bucky in transverse direction eliminating need for positioning table for every exposure
- d. Suitable for cassettes in cm and inch formats and should be capable to accommodate 14"x17"

- V
- X-Ray Ceiling column /Floor Stand Model**
- a. Travel range: 195 cm ( $\pm 10\%$ ); movement arrested with electromagnetic brakes
- b. Vertical travel: 135 cm ( $\pm 10\%$ ); movement arrested with electromagnetic brakes
- c. Column rotation:  $360^\circ$ ; from  $+180^\circ$  to  $-180^\circ$  in  $90^\circ$  increments
- d. X-ray tube rotation:  $\pm 180^\circ$ ; locks at  $0^\circ$  /  $+90^\circ$  /  $-90^\circ$

- VI
- Others:**
- a. The offer should be accompanied by original product data sheet/brochure of the product and AERB type approval certificate or valid No Objection Certificate (NOC) for the model offered. In case of NOC valid type approval certificate has to be submitted prior to submission of invoice for payments.
- b. QA test should be done free of cost during warranty period (once in every year) and yearly QA test shall be done in the CMC period (once in every year) also and the rates shall be included in the CMC offered. A copy of the report shall be sent to KMSCL.

VII **ACCESSORIES - The rate for the following accessories are fixed in the tender and shall be ordered separately. The rates of these accessories not included in the main equipment rate**

- a. Three fold X-ray protection barrier
- b. Light weight Radiation protection Apron of 0.5mm lead equivalence with Thyroid guard and Gonad shield
- c. Light weight latest model cassettes with high speed screen 15x12, 12x10, 10x8

d. Free standing chest stand and cone for skull x-rays.

e. X-Ray view box (LED Type) Double

f. Floating table

g. 6 way table

h. Suitable capacity stabiliser

VIII

#### **POWER SUPPLY REQUIREMENTS**

a. 380 to 440Vac, Three phase, 50/60 Hz.

IX

#### **SPECIFICATION OF RADIATION PROTECTION LEAD APRON.**

a. Should be AERB approved.

b. Should be light weight 0.5mm lead equivalent.

c. Should be hook and loop type (Velcro).

d. Should be supplied along with thyroid guard.

e. Heavy duty wall hanger should be supplied.

X

#### **SPECIFICATION FOR THREE FOLD LEAD PROTECTIVE BARRIER.**

a. Should be a threefold mobile lead protective barrier.

b. Should be a mounted on heavy duty casters.

c. Should have a viewing window size 8"x8" of 1.5 mm thick lead equivalence.

d. The centre part should have 3 feet width and 6 feet height. The sides should be 1.5 feet width and 6 feet height

#### **XI 6 WAY TABLE:**

- a. The table should be horizontal 6 way movements, motorized height adjustment with foot switch lock and having a weight bearing capacity of 200 kg.
- b. Motorised Bucky with immense flexibility and ease in positioning
- c. Foot switch control
- d. Table Height – 75 cm ( $\pm 5\%$ ) up/down travel at least 20 cm
- e. Table top – 218 x 80 cm ( $\pm 10\%$ )
- f. Table top should be made up of low radiation absorption, water proof material, stain free
- g. Longitudinal Travel:  $\pm 40$  cm ( $\pm 2\%$ )
- h. Transverse Travel :  $\pm 12.5$  cm ( $\pm 2\%$ )

#### **XII VERTICAL BUCKY:**

- a. In built Motorised Bucky
- b. Tilttable bucky

#### **XIII X- Ray Lobby (LED)-Double Film**

- 1. Should have double film size(14" x 17") capacities.
- 2. The equipment should have high level of control luminance, without flicker, from a unit that is easy to clean and maintain.

3. The X-Ray viewing screen illumination should be dimmable LED of minimum 60000 hours life and shall work on single phase power supply.
4. Should have minimum 10000 Lux output adjustable.
5. Should have individual brightness & ON/OFF controls.
6. The front panel diffuser should be of a glare free type.
7. Should have clipless mechanism to hold & secure the X-Ray negative film when in use.
8. LED Lamps should provide a uniform level of illumination across the entire front panel diffuser and should be controlled by electronic step-less dimming controls to provide flicker free dimming from maximum brightness to off.
9. Individual light controls for each plate.
10. Equipment shall be elegant & compact.
11. Body should be made up of mild steel / Aluminum powder coated
12. Should be grounded properly.

**XIV** The equipment should be rodent proof. The supplier shall install the machine and undertake rodent proof activities during the warranty period

**XV** Should be supplied with suitable capacity matching the power output of the machine with input voltage range of 360Vac to 450Vac automatic servo stabiliser.