

**HAFFKINE BIO PHARMACEUTICAL CORPORATION LIMITED****Procurement Cell****(A Government of Maharashtra Undertaking)****Regd. Office : Acharya Donde Marg, Parel, Mumbai 400 012 (INDIA)****Phone No: 022- 24129320-23****Managing Director :022-24150628****General Manager (Procurement Cell) :022-24100478****Website : http://www.vaccinehaffkine.com****E-mail: procurementcell@vaccinehaffkine.com**दि: १०.११.२०२३ प्रशासकीय मंजूर निर्घो २५,००,००,०००/-
(केद्र राज्य हिस्सा निर्घो २०१३-१८) (Qty.- ०१)**No. 7324 /Haffkine/Procurement Cell/ RT-4577/ Turn Key Work For Linear Accelerator with Bunker & Allied Rooms / 2022-23.****Date: 15/03/2023****To,****M/s. The Woodsmiths,**

18/36, Ballyguange Place East,

Kolkata – 700019.

Contact No. 9831133538.

E-Mail: the_woodsmiths@yahoo.com**Subject : Work Order for Tender No. RT-4577/Turn Key Work For Linear Accelerator with Bunker & Allied Rooms.****Reference: 1. Tender No. RT-4577/HBPCL/PC/Turn Key Work For Linear Accelerator with Bunker & Allied Rooms/ 2022-23.****2. शासननिर्णय, क्रमांक - जीसीए -२०१७/प्र.क्र.४०७/प्रशा-१ दिनांक :१० नोव्हेंबर, १७****3. Sanction of Tender Approval Committee Meeting No. 173****Date : 08.02.2023.**

With reference to the tender cited under reference no 1, you are requested to complete the following work as per details mentioned below to consignee list enclosed with this order.

Sr. No.	Name of the item	Specification of item	Quantity / Unit (DMER)	Unit Rate inclusive of GST(Rs.)	Total Amount Rs.
1	Turn Key Work For Linear Accelerator with Bunker & Allied Rooms	As per Annexure X	01	97,32,954.94/-	97,32,954.94/-
Total amount in words: Ninety Seven Lakhs Thirty Two Thousand Nine Hundred Fifty Four Rupees Ninety Four Paise Only.					
Factory Location: 18/36, Ballyguange Place East, Kolkata – 700019.					

- Forwarding:** Forwarding Free on Road Destination. I.e. door delivery basis.
- Work Completion Period:** 90 days from the date of receipt of work order by the contractor.
- Risk purchase clause:** If the bidder fails to supply the stores within the stipulated delivery period, the order will stand cancelled. Undersigned shall be entitled to purchase such stores from any other source at such price which ordinarily should not be more than 10% of the tender price. The extra expenditure in such cases shall be recovered by Managing Director, Haffkine Bio Pharmaceutical Corporation Ltd. (Procurement Cell), Mumbai from the Supplier.

- 4 **Payment Terms:** 95% R A Bill of part payment within 21 days from the invoice date and 5% DLP for 6 months period.
- 5 **Acceptance & Receipt:** It should be submitted in Appropriate Format to the purchasing authority.
- 6 **Delivery Challan** - Should be sent in the name of consignee in duplicate. It should specify Name of Equipment / Mfg. by / packing & quantity.
- 7 **Invoice Copy** - Should be sent in triplicate on the Name of Managing Director, Haffkine Bio Pharmaceutical Corporation Ltd. (Procurement Cell), Mumbai, Along with Bill of Entry and Country of Origin Certificate of the consignment.
- 8 **Other Terms :**
 - 1) Warranty: The warranty period shall be for 1 year from the date of project operational.
- 9 **Contract Agreement:** Bidder should submit Contract Agreement on non-judicial stamp paper of requisite value.

Fall Clause

It is a condition of the contract that all through the currency there of the price at which you will the supply stores should not exceed the lowest price charged by you to any customer during the currency of the contract and that in the event of the prices going down below the rate contract prices you shall promptly furnish such information to us to enable to amend the contract rates for subsequent supplies.

- 10 The Bidder should submit (within 7 days) amount of 1.5% i-e. **Rs. 1,45,994/-** of order value to meet other incidental expenditure and 3% i-e. **Rs. 2,91,989/-** as Security Deposit in form of Bank Guarantee. The Bank Guarantee valid for 2 months after the expiry of date of warranty issued by any Nationalized / Scheduled Bank.
- 11 **Penalty on Late Delivery:** The Project execution period will be 90 days from the date of receipt of work order by the contractor. In the event of the from the date late completion of turnkey work the contractor will recover from contractor by way penalty, a sum equal to **half Percent (1/2 %)** price of the work carried out calculated from the next day after the agreed work execution over.
- 12 The measurement book (M.B) should be signed by Dean and PWD engineer. The maintenance of measurement book is responsibility of dean and PWD Engineer, Rules of PWD about quality and reasonability shall apply

Amount to be deposited to Following Account:

Name of Account	Haffkine B P C L (Procurement Cell), CESS Account
Name of the Bank & Branch	Bank of Maharashtra, Branch- Mumbai Parel
Account No.	60381379835
IFSC Code	MAHB0000079

Consignee: As per list enclosed

मा. आयुक्त
वैद्यकीय शिक्षण व संशोधन, संचालनालय मुंबई
यांच्या मान्यतेने व करिता


General Manager

Haffkine Bio Pharmaceutical Corporation Ltd.
(Procurement Cell), Mumbai.

Copy to:

- 1) Commissioner Health Services, Mumbai.
- 2) Director, Medical Education & Research, Mumbai-400 001.
- 3) Account Manager, Haffkine Bio Pharmaceutical Corporation Ltd. (Procurement Cell), Mumbai.
- 4) Office File.

Copy to Consignee: Government Medical College & Cancer Hospital, Aurangabad.: As per Tender Condition No.17 The user Institution should get the Comprehensive Maintenance Contract done with supplier agency @ 5% of the Order value (excluding taxes) of equipment per year for Eight years after Completion of warranty period.

Copy Submitted to: 1) Secretary, Medical Education & Drug Department, Mantralaya, Mumbai.

Annexure-X

Technical Specification for Turn Key Work For Linear Accelerator with Bunker & Allied Rooms			
S.N.	Description	Unit	Qty.
Electrical & Networking Works			
Bunker + Console + UPS			
A	Electrical Panel		
1	Main Distribution LT Panel		
	Supply, Erection, Testing and Commissioning of cubicle type free standing, dust and vermin proof, busbar chambers, shell made of 14SWG CRCA sheet, doors made of 16SWG CRCA sheet with powder coating, Compartmentalised, modular type IP 42 Protection, with support clamps and angles frames as required as per the site condition. MAIN DISTRIBUTION PANEL consisting of the following. Incomer : 1 no 320A TP 25KA MCCB + Neutral link with built-in adjustable O/L, S/C & E/F. MCCB with rotary handle mechanism. Outgoings : 1nos 160A TP MCCB with rotary handle mechanism for UPS, 1nos. 100A 25KA TP MCCB with rotary handle mechanism for Chiller 3nos. 63A 25KA TPN MCB for AC & DB. Busbar : Busbar rating shall be 1.2 sqmm per ampere for main bus bars with aluminium .Incoming and outgoing cables shall be Top of bottom entry only.	No.	1.00
2	UPS Output Panel Board	No.	1.00
	Supply, Erection, Testing and Commissioning of cubicle type free standing, dust and vermin proof, busbar chambers, shell made of 14SWG CRCA sheet, doors made of 16SWG CRCA sheet with powder coating, Compartmentalised, modular type IP 42 Protection, with support clamps and angles frames as required as per the site condition. UPS Output Panel consisting of the following. Incomer: 1No 160A TP 25K MCCB + Neutral link with built in adjustable O/L, S/C & E/F MCCB with rotary handle mechanism. Outgoings: 1nos. 125A 25KA TP MCCB with rotary handle mechanism & 2nos. 63A TPN MCB for Machine Room DB Busbar: Busbar rating shall be 1.2 sqmm. Per ampere for main bus bars with aluminium. Incoming and outgoing cables shall be Top of bottom entry only.		
B	Electrical Wiring & Cabling		
1	DISTRIBUTION BOARDS		
	Supply, Erection, Testing and Commissioning the following MCB DB Double door type, IP 42 powder coated comprising of fixed flush with the wall. The cost of providing adaptor box above the DB shell also be included		
a	DISTRIBUTION BOX		
	8 WAY 7 Segment MCB DB		
	I / C - 63 AMPS FP MCB - 1 No		
	O / G - 63AMPS DP MCB - 3 Nos		
	O / G - 10/16A SP MCB - 18 Nos		
	Including all interconnections and other accessories etc as reqd	No.	2.00
2	Supply, Installation, Testing and Commissioning 100A TPN MCCB with water proof enclosure including earthing and all other required accessories as per site conditions. For near Chiller	No.	1.00
3	LT Cables		
	Supply, Laying, Testing and Commissioning of 1100V PVC insulated XLPE and sheathed Armoured Copper / Aluminium Conductor cables laid over MS supports / Cable racks /fixing of walls including clamping the cable to the support in all approved manner as all		
a	4R 50sq.mm Copper flexible cable Truebeam UPS Incoming & Outgoing	R.M.	50.00
b	4R 35 sq.mm Copper flexible cable for GE Panel board to Modulator	R.M.	30.00
c	1C 50 sq.mm Copper flexible cable for Body Earth for Machine Room	R.M.	200.00
d	4C 16 sq.mm Copper flexible Cable for Chiller	R.M.	80.00
e	4C 10 sq.mm Copper flexible Cable for AC	R.M.	80.00

f	4C 6 sq.mm Copper flexible cable for DB	R.M.	75.00
g	12C 0.75sqmm Copper flexible Cable with PVC conduit for Chiller to control panel at console room & Warning Light	R.M.	150.00
h	1C 6sq.mm Copper flexible cable for DB Earthing	R.M.	100.00
4	Cable Terminations		
	Supply, Erection, Testing and Commissioning for the following sizes of 1100V PVC insulated Cu / Al. conductor cables including providing single compression type cable gland copper sockets for copper cables, crimping lugs, insulation tape including gland		
a	4R 50 sq.mm Copper flexible cable	No.	6.00
b	1C 50 sq.mm Copper flexible cable	No.	10.00
c	4C 35 sq.mm Copper Flexible cable	No.	2.00
d	1C 35 sq.mm Copper Flexible cable	No.	4.00
e	4C 16 sq.mm Copper Flexible Cable	No.	4.00
f	4C 10 sq.mm Copper Flexible Cable	No.	6.00
g	4C 6 sq.mm Copper Flexible Cable	No.	6.00
5	Submain UPS and Raw Power Circuits		
a	Supply & Laying of 2R 2.5sqmm 1R 2.5 PVC insulated FRLS multistrand copper wire with 25mm dia FRPVC conduit with all accessories as required as per site conditions.	R.M.	400.00
b	Supply & Laying of 4R 1.5sqmm PVC insulated multistrand copper wire with 25mm dia PVC conduit with all accessories as required for emergency push button.	R.M.	100.00
6	Point Wiring		
	Supply, Installation, Testing & Commissioning of 3R 1.5sqmm PVC insulated FRLS copper wire with FRPVC conduit along with Modular 6A one way switch with moulded front plate GI anodised enclosure and other associated accessories as required as per the site (for TRUE BEAM Bunker)		
a	PRIMARY POINT	No.	15.00
b	SECONDARY POINT	No.	10.00
c	Dimmer light point With Dimmer	No.	4.00
7	Sockets		
a	Supply, Installation, Testing & Commissioning of 1no13A socket and 1no 6A switch and with moulded front plate GI anodised enclosure and other associated accessories in the work station as required as per the site conditions. (for TRUE BEAM Bunker, UPS Power)	No.	30.00
b	Supply, Installation, Testing & Commissioning of 1no 6/16A socket and 1no switch and with moulded front plate GI anodised enclosure and other associated accessories in the work station as required as per the site conditions.	No.	15.00
8	Installation of Light Fittings		
a	Supply, Erection, Testing and Commissioning of 2' X 2' LED 36 watts recessed mounting fitting with all accessories and interconnecting with 3 R 1.5 sqmm PVC insulated FRLS copper wire Make: Philips, other branded first class companies preferred. (for TRUE BEAM Bunker Consol)	No.	30.00
b	Supply, Erection, Testing and Commissioning of LED 15 watts recessed mounting down light fitting with all accessories and interconnecting with 3 R 1.5 sqmm PVC insulated FRLS copper wire Make: Philips, other branded first class companies preferred. (for TRUE BEAM Bunker)	No.	10.00
c	Supply, Erection, Testing and Commissioning of single 3 watt Recessed fixed type LED fitting with Electronics ballast and all accessories and interconnecting with 3 core 1.5 sqmm PVC insulated FRLS copper wire and fixing the same in the Ceiling.	No.	4.00
9	Data, Voice & Network		
a	Supply, Laying, Testing and Commissioning of Cat - 6 UTP Cable with FR PVC conduit and all accessories as required.	R.M.	500.00
b	Supply, Fixing, Testing and Commissioning of Information Outlet for Cat-6 UTP cable quader front plate with Back box and all accessories as required.	No.	15.00

c	Supply, Fixing, Testing and Commissioning of Telephone Outlet front plate with Back box and all accessories as required.	No.	4.00
d	Supply, Fixing, Testing and Commissioning of 4U Communication Rack (for TRUE BEAM Bunker)	No.	1.00
e	Supply & Fixing of 24port Patch panel and 10/100/1000 mbps Base T Switch with 24 port patch panel	No.	1.00
f	Supply, Fixing, Testing and Commissioning of 2 pair Telephone cable .	R.M.	150.00
10	Earthing		
a	Supply and Installation of 4 way earth bus with accessories as required	No.	1.00
b	Supply, Installation, Testing & Commissioning of Copper Earthing with 600x600x3mm Copper Plate and 25x6mm Copper flat bar confirming IS:3043 with the provision for watering & inspection chamber.	Pit	4.00
11	Perforated Type GI Cable Tray		
a	Supplying, fabricating, erecting and connecting the following 1.6mm thickness GI perforated type cable trays with necessary supports, tees, elbows, bends, bolts and nuts and any other associated accessories to complete the job.-150mm (wide) X 50mm (collar height)	R.M.	50.00
b	Supply & Fixing of 50 mm PVC Pipe for CC TV, IRM and speaker cable pulling	R.M.	10.00
12	Warning Light		
	Supply fixing Testing & Commissioning of Warning Light, LED Green, Yellow, Red, Green, Red, + Power Supply. (Warranty for 1 Year)	No.	1.00
13	Emergency Stop Switch		
	Supply fixing Testing & Commissioning of Emergency Switch, 4 No. NO,NC Element With Box	No.	4.00
	TPS (Ground Floor)		
A	Electrical Wiring & Cabling		
1	DISTRIBUTION BOARDS		
	Supply, Erection, Testing and Commissioning the following MCB DB Double door type, IP 42 powder coated comprising of fixed flush with the wall. The cost of providing adaptor box above the DB shell also be included		
a	DISTRIBUTION BOX		
	8 WAY 7 Segment MCB DB		
	I / C - 63 AMPS FP MCB - 1 No		
	O / G - 63AMPS DP MCB - 3 Nos		
	O / G - 10/16A SP MCB - 18 Nos		
	Including all interconnections and other accessories etc as reqd	No.	1
2	LT Cables		
	Supply, Laying, Testing and Commissioning of 1100V PVC insulated XLPE and sheathed Armoured Copper / Aluminium Conductor cables laid over MS supports / Cable racks /fixing of walls including clamping the cable to the support in all approved manner as all		
a	4C 6 sq.mm Copper flexible cable for DB	R.M.	75
b	1C 6sq.mm Copper flexible cable for DB Earthing	R.M.	100
3	Cable Terminations		
	Supply, Erection, Testing and Commissioning for the following sizes of 1100V PVC insulated Cu / Al. conductor cables including providing single compression type cable gland copper sockets for copper cables, crimping lugs, insulation tape including gland		
a	4C 6 sq.mm Copper Flexible Cable	No.	6
4	Submain UPS and Raw Power Circuits		
a	Supply & Laying of 2R 2.5sqmm 1R 2.5 PVC insulated FRLS multistrand copper wire with 25mm dia FRPVC conduit with all accessories as required as per site conditions.	R.M.	600
b	Supply & Laying of 4R 1.5sqmm PVC insulated multistrand copper wire with 25mm dia PVC conduit with all accessories as required for emergency push button.	R.M.	100
5	Point Wiring		

	Supply, Installation, Testing & Commissioning of 3R 1.5sqmm PVC insulated FRLS copper wire with FRPVC conduit along with Modular 6A one way switch with moulded front plate GI anodised enclosure and other associated accessories as required as per the site (for TRUE BEAM Bunker)		
a	PRIMARY POINT	No.	15
b	SECONDARY POINT	No.	10
6	Sockets		
a	Supply, Installation, Testing & Commissioning of 1no13A socket and 1no 6A switch and with moulded front plate GI anodised enclosure and other associated accessories in the work station as required as per the site conditions. (for TRUE BEAM Bunker, UPS Power)	No.	80
b	Supply, Installation, Testing & Commissioning of 1no 6/16A socket and 1no switch and with moulded front plate GI anodised enclosure and other associated accessories in the work station as required as per the site conditions.	No.	80
7	Installation of Light Fittings		
a	Supply, Erection, Testing and Commissioning of 2' X 2' LED 36 watts recessed mounting fitting with all accessories and interconnecting with 3 R 1.5 sqmm PVC insulated FRLS copper wire Make: Philips, other branded first class companies preferred. (for TRUE BEAM Bunker Consol)	No.	15
b	Supply, Erection, Testing and Commissioning of LED 15 watts recessed mounting down light fitting with all accessories and interconnecting with 3 R 1.5 sqmm PVC insulated FRLS copper wire Make: Philips, other branded first class companies preferred. (for TRUE BEAM Bunker)	No.	10
8	Data, Voice & Network		
a	Supply, Laying, Testing and Commissioning of Cat - 6 UTP Cable with FR PVC conduit and all accessories as required.	R.M.	800
b	Supply, Fixing, Testing and Commissioning of Information Outlet for Cat-6 UTP cable quader front plate with Back box and all accessories as required.	No.	80
c	Supply, Fixing, Testing and Commissioning of Telephone Outlet front plate with Back box and all accessories as required.	No.	4
d	Supply, Fixing, Testing and Commissioning of 12U Communication Rack (for TRUE BEAM Bunker)	No.	1
e	Supply & Fixing of 24port Patch panel and 10/100/1000 mbps Base T Switch with 24 port patch panel	No.	4
f	Supply, Fixing, Testing and Commissioning of 2 pair Telephone cable.	R.M.	250
g	Supply & Laying Testing & Commissioning Optical Fiber cable for old TPS data rack to new TPS data rack All Accessories	R.M.	150
h	Optical Fiber Kick	Set	2
Civil & Interiors works			
	Bunker		
1	Supplying, Providing and placing in position M25 Reinforced cement concrete for foundation of accelerator and maze rooms including vibrating, curing, etc., complete, including cost of providing steel form work with plywood lining for all shapes (including scaffolding, centering, etc.), but excluding the cost of providing reinforcement all as per specifications. Include precautions to control heat of hydration by mixing ice with water used for the mix to bring down temperature of concrete at time of placing and obtaining a homogeneous compact concrete. All exposed concrete surface to be of form finish.	5.00	Cu.M.
2	50mm thick Cement Concrete Flooring finished with 2mm thick antistaticVinyl Flooring after the self-levelling of the floors	66.7	Sq.M.
3	P/F skirting with BWR plyboards and vinyl(as described above) pasted on the same of ht 100 mm	36.6	R.M.
4	Providing and fixing of wall panels on 25 mm x 25 mm aluminium grids ,12 mm BWR ply fixed on it and finished with hi end laminates (Basic rate - 2000/- per sheet)	51.5	Sq.M.
5	Providing and fixing of the high end designer tiles on the walls as specified in the drawing over and above a cement mortar backing of app 25 mm thick (Basic rate	34.4	Sq.M.

	- 180/- per sq.ft)		
6	P/f of high end vitrified tiles of size 600mm x600mm on the back wall upto the ht of 900 mm over and above a cement mortar backing of app 25 mm thick (Basic rate - 70/- per sq.ft)	7.92	Sq.M.
7	Panelling of the back wall above the vitrified tiles with aluminium frame work, 12 mm BWR ply fixed and finished with textured walls as specified including the finished paint	18.48	Sq.M.
8	Providing and fixing of Gypsum ceilings suspended on GI sections as specified with all coves and niches as specified in the drawing	33.44	Sq.M.
9	P/F aluminium powder coated 600mm x600mm grid ceiling (without tiles) hangged from true ceiling to hold the skylites	33.23	Sq.M.
10	Providing and fixing of skylites with LED lights	33.23	Sq.M.
11	Constructing Cable trenches / Race way as 1' wide X 1' deep properly finished with plaster and paint.	40.00	R.M.
12	Providing & fixing G.I. Angle framing, 19mm plywood cover with handle and 1mm laminte to cable trenhes 1' wide.	40.00	R.M.
13	Supply and Installation of Load Hooks (Ref services dwg)	6.00	No.
14	Wall-mounted storage cupboards within LINAC room; to store: Dosimetry & QA Items, LINAC accessories. (Location: Treatment Room) Size: 1.8m wide x 2.6m high x 0.6m deep (19mm thick Marine Grade Ply)	2.00	No.
15	Painting of the gypsum ceiling with proper taping, sand papering, application of 1 coat of priemer and 2 coats of paint	66.88	Sq.M.
16	Decorative step up (3 step)	1.00	No.
17	Providing & fixing of Cubical curtain 1.2 m wide	1.00	No.
18	Core Cutting Bunker Wall 1500 Depth 100 Dia (for chiller piping sleeve, Accessories cables sleeves) and repairing with GP-2 chemical	2.00	No.
19	600mmx 600mm Vitrified tiles with 100mm matching tile skirting Providing and laying approved quality, colour, design and shade fully homogeneous 600 x 600 mm (thickness to be specified by the manufacturer)Vitrified tile flooring (Marbonite or Granamite, confirming to IS code 15622 with water absorption less than 0.08%)flooring in pattern as detailed in drawing or as directed by the institute and grouted with matching colour approved quality readymade grout, curing, cleaning etc to required line level etc. all complete at all leads, lifts and heights to the entire satisfaction of the institute. Providing and fixing 2-3mm thick POP protection over polythene covering sheet to flooring areas till handed over and cleaning, etc all complete as per drawings & Specification. (Basic rate - 70/- per sq.ft)	34.10	Sq.M.
20	Vitrified tile skirting of 100 mm ht	33.00	R.M.
21	P/f of high end vitrified tiles of size 600mm x600mm on the wall upto the ht of 900 mm over and above a cement mortar backing of app 25 mm thick (Basic rate - 75/- per sq.ft)	29.70	Sq.M.
22	Two coats of Plastic Emulsion Paint over 2 coats of wall putty including primer.	69.30	Sq.M.
23	Providing and fixing of Gypsum ceilings suspended on GI sections as specified with all coves and niches as specified in the drawing	10.23	Sq.M.
24	Providing and Fixing minerel fibreFalse Ceiling of panels size 600 x 600 mm with Aluminium ceiling frame work.	23.87	Sq.M.
25	Patient railing (made from SS 304)	20.00	Mtr
26	Providing and fixing solid core flush door shutter in commercial type ply with single leaf 32mm thick with / without half partition of glass with wrought iron hold fast, stainless steel fixtures, hinges, locks and handles on both sides with 1mm laminate complete. Cost to include door frame. (2 m wide)	1.00	No.
	Console		
1	600mmx 600mm Vitrified tiles with 100mm matching tile skirting Providing and laying approved quality, colour, design and shade fully homogeneous 600 x 600 mm (thickness to be specified by the manufacturer) Vitrified tile flooring (Marbonite or Granamite, confirming to IS code 15622 with water absorption less than 0.08%)flooring in pattern as detailed in drawing	35.05	Sq.M.

	or as directed by the institute and grouted with matching colour approved quality readymade grout, curing, cleaning etc to required line level etc. all complete at all leads, lifts and heights to the entire satisfaction of the institute. Providing and fixing 2-3mm thick POP protection over polythene covering sheet to flooring areas till handed over and cleaning, etc all complete as per drawings & Specification.		
2	Vitrified tile skirting of 100 mm ht	26.62	R.M.
3	P/f of high end vitrified tiles of size 600mm x600mm on the wall upto the ht of 900 mm over and above a cement mortar backing of app 25 mm thick (Basic rate - 75/- per sq.ft)	23.96	Sq.M.
4	Two coats of Plastic Emulsion Paint over 2 coats of wall putty including primer.	55.90	Sq.M.
5	Providing and fixing of Gypsum ceilings suspended on GI sections as specified with all coves and niches as specified in the drawing	10.52	Sq.M.
6	Providing and Fixing mineral fibreFalse Ceiling of panels size 600 x 600 mm with Aluminum ceiling frame work.	24.53	Sq.M.
7	Providing and fixing solid core flush door shutter in commercial type ply with single leaf 32mm thick with / without half partition of glass with wrought iron hold fast, stainless steel fixtures, hinges, locks and handles on both sides with 1mm laminate complete. Cost to include door frame. (2 m wide)	1.00	No.
8	Providing & fixing 800 mm deep Console Table with attached Race Way / Cable trenches with drawer and pedestal. (Ref drawing)	8.38	R.M.
9	Supplying of height adjustable revolving chairs, medium-back with hand rest..	5.00	No.
10	Storage 450 mm deep made out of 19mm commercial ply ISI grade with shutters and partitions complete. Cost shall be included of all necessary hardware like hinges, S.S handle, locks, etc. complete in all respect.	7.54	Sq.M.
11	Providing and fixing laminate finished 200 mm htbox type panelling with with 12 mm plywood and 1 mm thick laminate of approved shade for witches and sockets. Rate to include that for all necessary hardware, adhesive, etc.	8.38	R.M.
12	Providing & fixing soft board with approved fabric with wooden frame work for display drawings and documents.	5.03	Sq.M.
13	Providing and making 2 No. change room of size 1.9 mtr x 1.82 mtr x 2.1 mtr(ht) made of aluminium powder coated extruded section framework including door clad with 12 mm pre laminated boards an all sides and having fixed ceiling inside with provisions of mirror, coat hooks, small shelves complete	2.00	No.
TPS (Ground Floor)			
1	600mmx 600mm Vitrified tiles with 100mm matching tile skirting Providing and laying approved quality, colour, design and shade fully homogeneous 600 x 600 mm (thickness to be specified by the manufacturer)Vitrified tile flooring (Marbonite or Granamite, confirming to IS code 15622 with water absorption less than 0.08%)flooring in pattern as detailed in drawing or as directed by the institute and grouted with matching colour approved quality readymade grout, curing, cleaning etc to required line level etc. all complete at all leads, lifts and heights to the entire satisfaction of the institute. Providing and fixing 2-3mm thick POP protection over polythene covering sheet to flooring areas till handed over and cleaning, etc all complete as per drawings & Specification.	68.64	Sq.M.
2	Vitrified tile skirting of 100 mm ht	35.42	R.M.
3	P/f of high end vitrified tiles of size 600mm x600mm on the wall upto the ht of 900 mm over and above a cement mortar backing of app 25 mm thick	74.38	Sq.M.
4	Providing and fixing of Gypsum ceilings suspended on GI sections as specified with all coves and niches as specified in the drawing	20.59	Sq.M.
5	Providing and Fixing mineral fibreFalse Ceiling of panels size 600 x 600 mm with Aluminum ceiling frame work.	48.05	Sq.M.
6	Providing and fixing solid core flush door shutter in commercial type ply with single leaf 32mm thick with / without half partition of glass with wrought iron hold fast, stainless steel fixtures, hinges, locks and handles on both sides with 1mm laminate complete. Cost to include door frame. (1 m wide)	1.00	No.
7	Supplying of height adjustable revolving chairs, medium-back with hand rest.	15.00	No.

8	Providing making fixing work station 600mm deep and 750mm high with providing required framing/supports with one drawer unit, pvc cable manager,CPU stand, etc. work station should be made of 19mm thk ply board make century ply/green ply, with 1 mm thk laminate over the all outer surface and 0.8mm thk white laminate on all inner surface. cost shall be included of all necessary hardware like hinges, handle, locks, etc. complete in all respect.	34.00	R.M.
9	Providing & supplying storage units (400 mm deep) of required length with required height. Made up of BWR "AA" Grade Ply with white, Ply for sides, Shuttters, shelves, top, bottom and vertical portions. Shuttters shall be fixed with 75 mm long SS cut hinges, tower bolts and magnetic catchers at top/ bottom and locks as required. Handles shall be 316 SS grade. All external surfaces shall have 1.0 mm laminate of approved shade, and 0.8 mm white laminate inside.	20.40	Sq.M.
10	Providing and fixing laminate finished 200 mm htbox type panelling with with 12 mm plywood and 1 mm thick laminate of approved shade for witches and sockets. Rate to include that for all necessary hardware, adhesive, etc.	34.00	R.M.
11	Providing & fixing soft board with approved fabric with wooden frame work for display drawings and documents.	20.04	Sq.M.
UPS			
1	50mm thick Cement Concrete Flooring finished with 2mm thick antistaticVinyl Flooring after the self-levelling of the floors	48.31	Sq.M.
2	P/F skirting with BWR plyboards and vinyl(as described above) pasted on the same of ht 100 mm	36.78	R.M.
3	Two coats of Plastic Emulsion Paint over 2 coats of wall putty including primer.	77.24	Sq.M.
4	Providing and fixing of Gypsum ceilings suspended on GI sections as specified with all coves and niches as specified in the drawing	48.31	Sq.M.
5	Providing and fixing solid core flush door shutter in commercial type ply with single leaf 32mm thick with / without half partition of glass with wrought iron hold fast, stainless steel fixtures, hinges, locks and handles on both sides with 1mm laminate complete. Cost to include door frame. (1 m wide)	2.00	No.
6	Providing and fixing of powder coated aluminium framed 3 track sliding windows with 5.5 mm clear glass	4.80	Sq.M.
HVAC Works			
Bunker + Console			
1	Supply , installation ,testing & commissioning of aircooled ductable split air conditioner with low side works (up to 50 running meters) with ceiling suspended IDU and all standard fitting, GSS sheet metal duct (insulation using resin bounded glass wool with 7 micron aluminium foil) for air distribution 22/24 G, IDU SS drain pan as per specification complete with suitable capacity drive motor , aircooled condensor with all accessories ,hermetically sealed scroll compressor, electronic microprocessor pendant controller with digital display, first charge refrigerant gas, vibration isolator pads, structural support for fixing IDU/ODU, safety devices including thermal protector, pressure release valve ,overload relay single phase preventer etc, power wiring and control cabling(indoor to outdoor), thermostat wiring, high-low pressure cut out suitable for 3 phase 440V supply etc complete as required. (11Tr x 2 Nos.)	22.00	Tr.
UPS + TPS			
1	Supply, installation, testing and commissioning of 2.0 T Split AC 3/4 star with copper condenser coil, stabilizer, 10 mtr cooper line, synchronise timer, water pump, etc. complete. (UPS - 2Tr x 2Nos. + TPS - 2Tr x 4 Nos.)	12.00	No.
Chiller Piping Works			
Bunker			
1	SITC of 18G 13/8" Hard Copper pipes for supply and return lines of Chiller including all necessary fittings, elbows, tees, clamps, supports chanel ,cable tray etc. The complete length of the pipe to be duly insulated with 19mm Nitrile Insulation with tapes etc as per standard practice.	R.M.	60
2	Supply, installation, testing of UV treatment including 1 layer of UV Glass cloth	R.M.	50

	and 2 Layers of Starbond 30-36 for exposed length of Copper pipe open to atmosphere.		
3	Supply & installation and commissioning of chillier inlet & outlet Equip. flange union	No.	2
4	Installation, testing & commissioning of chillier inlet & outlet Equip. flange union	No.	2
5	SIIC of following valves, gauges, accessories etc		
a	Pressure gauges, size 3 inch dia ,make Remax, Range zero psig to 100 psig	No.	3
b	Temperature gauges, size 3 inch dia , Make Remax, Range 0 to 100 degree C	No.	2
c	25 mm brass made Drain Valve make zoloto with 10 mtr pvc piping with all fittings and support hardware	No.	1
d	40mm brass Ball valves make Zoloto	No.	5
6	Supply and refilling of DM water	Lot	1
7	Supply & commissioning of water panel with brass nut and all fittings	No.	1

FireFighting Works

	Bunker + Console + UPS + TPS		
1	Supply fixing and drawing of 19mm MS conduit along with PVC insulated copper conductor cable all accessories and GI boxes in recess/surface including cutting wall and making good the same as required.	200.00	R.M.
2	Supply, testing, installing and commissioning of the following fire detection and alarm accessories complete with connection etc. as required including the system's interlink connections with the Fire alarm panel at the reception :		
a	Manual break glass unit	3.00	No.
b	Smoke detector	28.00	No.
c	Fire Alarm hooter	2.00	No.
d	Response indicator	6.00	No.
c	Two zone Fire alarm panel complete with battery enclosure with required batteries in a sheet metal box painted to approved colour as shown in the drg. as required	2.00	No.
d	Supplying, fixing and drawing cable for connecting with existing Fire Panel in MS conduit with all accessories as required.	200.00	R.M.
e	Supply and installation of portable fire extinguishers of class ABC / CO2 type electrical fire with wall mounted and indicators in 5.0 Kg capacity	10.00	No.

Consignee Details

M/s. The Woodsmiths		
Turn Key Work For Linear Accelerator with Bunker & Allied Rooms		
Delivery Period	06 weeks	
PO Ref. No.	No.: 7924 /Haffkine/Procurement Cell/RT-4577/ Turn Key Work For Linear Accelerator with Bunker & Allied Rooms /2022-23. Date: 15/03/2023	
	दि: १०.११.२०१७ प्रशासकीय मंजूर निधी २५,००,००,०००/- (केंद्र राज्य हिस्सा निधी २०१७-१८) (Qty.-०१)	
Sr. No.	Name & Address of the Consignee	Qty.
1)	Government Medical College & Cancer Hospital, Aurangabad.	01
	Total	01

मा. आशुक्त
वैद्यकीय शिक्षण व संशोधन, संयात्मनालय मुंबई
यांच्या मान्यतेने व करिता

General Manager

**Haffkine Bio Pharmaceutical Corporation Ltd.
(Procurement Cell), Mumbai.**