PUNE METROPOLITAN REGION DEVELOPMENT AUTHORITY, PUNE

PUNEMETROPOLIS

CSD - 1

Extension to Short EOI Notice No. 2 for FY 2020-21

The submission of Expression of Interest through offline tendering for "Providing all type Infrastructure Facility for proposed 800 Bedded Covid Hospital (600 Oxygenated beds + 200 ICU beds) at Balewadi , Pune" is postponed.

The date of submission is extended till 30 July 2020 upto 16.00 hours.

The location of this Covid Hospital is now proposed at COEP Ground, Shivajinagar, Pune.

Existing EOI Notice No. 2 published on 24.7.2020 on this website has been modified and Revised EOI document is attached herewith.

Kindly submit your bids considering provisions of this revised document as per the schedule mentioned therein.

Revised Schedule-

i) Pre-bid meeting: - Dt 29.7.202 Time 17.00 Hrs

- By google meet (Link--- meet.google.com/brd-rfpq-pck)

ii) Last date of submission of EOI: Dt 30.7.2020, Time 16.00 Hrs

iii) Presentation by Bidders: Dt 30.7.2020, Time 17.30 Hrs

iv) Opening of the financial Bid (submitted over password protected file) of technically qualified Bidder: Dt 31.7.2020, Time 11.00 am (Possible)

The CSC, CSD if any will be available on www.pmrda.gov.in.

Vivek Kharwadkar
Chief Engineer,
Pune Metropolitan Region Development Authority,
Pune

Revised EXPRESSION OF INTEREST

(published as CSD-I)

For providing all types of infrastructure facilities for the proposed 800 bedded COVID hospital (600 Oxygenated beds + 200 ICU beds) at COEP ground, Shivajinagar, any other suitable location at Pune

PMRDA Pune invites eligible bidder to submit Expressions of Interest on Lump Sum basis, for Turnkey Infrastructure Execution as mentioned above (in 22 days from the date of work order) and (24 X 7)non medical Management of Covid-19, ICU and Oxygenated beds at Pune for PMRDA for the duration of six (6) months or COVID-19 disease subsides, whichever is earlier, however if the duration increases beyond six months, bidder shall extend the services as per the terms of this EOI.

A. Background:

In light of COVID -19 Pandemic, apart from strengthening and enhancing the number of beds, both Oxygenated and ICU with ventilators at PMC, PCMC area and Government hospitals, PMRDA is taking up an ambitious plan to set up a Dedicated COVID Hospital (DCH) and Dedicated COVID Healthcare Centre (DCHC) of jumbo facilities within the city for COVID-19 treatment.

In this regard, various agencies for Turnkey Infrastructure Execution & hospitality Management of ICU and Oxygenated beds for COVID-19 at COEP ground, Shivajinagar, Pune or any other location in the city are required.

B. Expression of Interest

Expression of Interest (EOI) is hereby invited from the intending bidders for "Planning, Architectural Designing, Procurement, Construction and Equipping of COVID-19 jumbo facility that will have 600 Oxygenated Beds, 200 Critical Care beds (140 HDU and 60 ICU) facility at Pune using German Hangars on Turnkey Basis, on Built & Transfer Model including all facilities as per Indian Standards.

C. Scope of work:

1. Planning, Designing, Procurement, Construction and Equipping of COVID-19 jumbo facility including ICU at Pune using Large Span Prefabricated German Hangars on Turnkey Basis adhering to Indian Public Health Standards

2. Indicative Hospital / ICU Facility Size: 600 oxygenated beds, 200 Critical Care beds (140 HDU and 60 ICU)

3. Proposed Location: COEP ground, Shivajinagar, Pune (Proposed location may shifted to another convenient location).

4. Detailed Scope of Work:

a. Design & Architectural Scope :

To evaluate the broad development feasibility of site development requirements as per the program requirements, that shall be taken under development for the DCHC / DCH.
To prepare a master layout for the entire site to segregate the patient, staff, and emergency movement within the site premises.(Indicative layout attached as Annexure 3.)
To prepare a conceptual & detailed designing plan for each facility/ building, based on the requirements of the medical planning team and accommodating the same within the site context. To cater to any other site-specific requirement/s pertaining to DCHC / DCH, from the optimization of hospital logistics to the local availability of medical gas and the individual sterile requirements of spaces.
The turnkey provider shall integrate the necessary concepts from the design phase onwards, resulting in the seamless and efficient implementation of a highly functional DCHC / DCH, in consultation with the Consultant appointed by PMRDA.

The decision of the PMRDA / Infrastructure Committee / Steering Committee or any other committee appointed for the said purpose on the above process shall be final and binding.

b. Infrastructural Scope :

1. Leveling of Ground at the selected/ site, Providing BT surface over the appropriate base course for the required complete Hospital area with at least 7 m circumferential margin and with stormwater drainage and sewerage facility. Floor level of the hospital area shall be minimum 0.35 m above the surrounding average ground level.

Water tank of minimum capacity 1 Lakh Litres to be provided at appropriate height so as to get water flow by gravity as well as complete plumbing work for the whole hospital premises.

Water supply will be provided by the authority. Monthly water charges will be paid by PMRDA.

Minimum Space requirements :

Sr. No.	Description	Detail	Space Req.
1.	Oxygenated Beds with provision of contactless booths and Nurse station, and admission desk	600 Beds	Min area of the hangar facility to be 6300 sq.m. (preferably 105*60 m. 10 to 12 Sq.m Per Bed)
2.	Critical Care Beds (ICU + HDC + Admin Area + Pathlabs + Octonorm Room)	200 Beds (140 HDU + 60 ICU)	Min area of the hangar facility to be 4400 sq.m. (preferably 110m*40m i.e. 22 to 24 Sq.m Per Bed)
3.	Utility Area, Donning, Doffing,		Min area of the hangar

	Command Centre, Admin area, etc.		facility to be 1200 sq.m. (preferably 15m*80m)
4.	Washrooms (Proper segregation shall be done for patient usage and staff usage)	WC 200 (combination of Indian and Western); Urinals 100; Washbasins 125; Bath And Shower facility 125; Sink 25; Sluice room (for critical care areas) as per the plan	Min area of the facility should be provided as per the norms.
5.	Mortuary, Disinfection area, bio-medical waste, laundry, Space for AHU, space for LMO, Plant and Manifold room, visitors parking, staff parking, Ambulance parking, stores		Mortuary: 500 sqft Disinfection area, bio-medical waste, laundry: As per design space for LMO: As per PESO requirements Others: as per design

* Indicative layout is attached as Annexure III for the bidder's reference.

2) Installation of DCHC /DCH facility for ICU and Oxygenated beds. The structure shall sustain a minimum wind speed of 80-100 kmph and a rainfall more than 50 mm. Bidder is advised to take proper insurance of this temporary hospital at his own cost. In the event of collapse or damage to the structure with wind velocities less than 80 kmph or due to rainfall more than 50 mm, then no compensation is payable to the bidder and he should make the structure operational again, at his own cost, in a reasonable time.

In case of flooding of the area or damage to the hangar structure, if the patients are required to be shifted from this location, it shall be done by the bidder at his own cost.

3) Appropriate ventilation of oxygenated bed area to maintain proper air circulation including provision of pedestal fan to each oxygenated bed (600 nos.) and other such measures to maintain comfortable ambient temperature, Air-conditioning of General Area, Negative Pressure Air conditioning of ICU and Critical Care Units with maintaining required negative pressure between 2.5 to 5 Pa, Erection of Registration and Facilities areas, Medical Gas Pipeline Systems (Specifications attached addendum1) as per need of the 800 beds., Heating Ventilation Air Conditioning (HVAC) of adequate capacity, required Fire Fighting arrangements, etc. for seamless functioning of the facility 24x7.

4) Fabrication of Partitions (specifications for oxygenated bed area as well as for ICU partitions/panels are attached in addendum1), Temporary and permanent Flooring, Partition Walls of 4 ft for oxygenated bed area and 10 ft for ICU or as appropriate, False Ceiling, and Insulation of the ICU structure. Erection and civil work related to Toilets and Washrooms and wash basin facilities with uninterrupted water supply and appropriate drainage arrangement so as to maintain the hygiene of the DCHC/DCH premises.

5) Non-Medical furniture (including beds for oxygenated area, beds (specifications attached addendum1), mattresses with covers, pillows with covers, etc.), Sanitization Tunnels, Donning and Doffing Areas, Doctor's Lounges, Nurse Station, Cafeteria, Registration Lounge,

6) IT Enabled Services* (hardware including LAN, cabling, internet and free Wi-Fi to all staff and patients), Audio Visual Equipment (music system, 5 giant TV screens), PA system, nurse call / light system, CCTV, 24x7 uninterrupted power backup with number of rented DG sets to provide minimum output of 1500 KVA along with rented standby DG sets (2 nos.) of at least 1500 KVA and UPS of suitable rating facility sufficient to cater to the needs of admitted patients, etc. and all related electrical works.

*Procurement of all necessary softwares will be done by PMRDA

7) All required electrical connections (with all gadgets, switched, as per room data sheets supplied by PMRDA consultant). Electric supply will be made available from MSEDCL, and the monthly electric bills will be paid by PMRDA.

8) Liquid medical oxygen tanks (min 2) of suitable capacity for 800 patients assuming daily consumption of 26000 litres per day.

9) Brief specifications of the important items are enclosed herewith (Addendum - 1). The bidder shall note that these specifications are bare minimum and remaining items shall be executed as per standard specifications and practices to establish and run a dedicated covid centre 24x7 for the six months, however if the duration increases beyond six months, the bidder shall extend the services as per the terms of this EOI.

10) All facilities mentioned above in the said DCHC / DCH shall be made user-friendly for differently abled patients.

All the above activities shall be performed in consultation with the Health Care Consultant appointed by PMRDA and after taking clearance from appropriate Medical Authority from time to time. Anything that is provided by the bidder if communicated to him as unacceptable by any of the competent authorities, shall be replaced within reasonable time at bidder`s cost.

Further, the selected bidder shall make the site clear and encumbrance free (as in original state) after the closure of the Dedicated COVID Healthcare Centre facility by removing all temporary as well as permanent structures erected including BT surface, if any, as well as complete Hospital Infrastructure and

handing over the Medical and Nonmedical furniture and equipment to the competent Authority.

The decision of the PMRDA / Infrastructure Committee / Steering Committee or any other committee appointed for the said purpose on the above process shall be final and binding.

c. Hospitality Services & Non-Medical Manpower Procurement & Management Scope

Catering, accommodation, as well as transportation for all staff i.e. medical as well as non-medical, and related Services, procurement, Logistics, Food & Beverages Services, Security Services (for the entire facility), Housekeeping and sanitation Services (for the entire facility including the wards and premises), Support staff for general management, and Laundry Services, in consultation with the Health Care Consultant appointed by PMRDA. All the manpower services are to be provided with appropriate uniforms as per general practice. All the personnel should wear the ID cards provided and the bidder should confirm that all their personnel wear uniform as well as ID card when on duty.

The entire infra as well as operations team will report to the command centre manned by PMRDA / PMC / PCMC / Collectorate officials

The decision of the PMRDA /Infrastructure Committee/ Steering Committee or any other committee appointed for the said purpose on the above process shall be final and binding.

Important Note: All the works shall be planned and executed as per the ICMR guidelines. In case no specific issue is covered in ICMR guidelines, Indian Standard shall be adhered to and in case no standards are available, the agency shall get the approval of the authority for execution of such works.

d. Project Duration

The time duration for Completion of work: 22 Days + 6 Months (as per the requirement mentioned below)

i. For the establishment of Hospital - 22 Days from the date of the work order and after confirmation of designs by PMRDA.

ii. For the operation of the Hospital - This hospital shall be kept operational with a complete set of 800 beds as mentioned above 24x7, for the duration of six (6) months from the date as approved by the competent medical authority after full-fledged functioning or till COVID-19 disease subsides, whichever is earlier. However, if the duration increases beyond six months, the bidder shall extend the services as per the terms of this EOI.

D. Eligibility Criteria:

1. The Bidder shall be a Limited or a Private Limited Company registered under the Indian Companies Act, 1956, or any Public or private establishment or a registered contractor and should set up full-fledged branch operations in Pune

2. The Bidder must have a minimum of five years of experience in completing large scale ~~graph~~ infrastructure projects and must have worked with Government/ semi Government/ private agencies, National / International clients with National / International Presence and recognition considering the German Hangers being used as the main infrastructure for the execution of similar hospitals.
3. The Bidder must not have been debarred/blacklisted by any government entity in India as on the last date of Proposal submission.
4. The Bidder must have prior experience of setting up at least one Hospital having more than 200 regular beds and 100 ICU beds capacity or comparable facility.
5. The bidder shall have a minimum annual turnover of Rs. 18 Cr. in at least one of the last five years.
6. The bidder shall have a minimum net worth of Rs. 2 Cr. in at least one of the last two years (2019-20, 2018-19).

E. General Instructions and documents to be submitted by the interested bidder

1. PMRDA anticipates issuing EOI for the selection of a total service provider for implementation of Dedicated COVID Healthcare Centre facility for COVID-19 patients as described above.
2. The aim of the EOI is to identify potential bidders with the capacity to provide Turnkey Infrastructure Execution & Non-Medical Management of Covid-19, General, ICU, and Oxygenated beds at Pune for PMRDA for the duration of six (6) months or COVID-19 disease subsidies, whichever is earlier however if the duration increases beyond six months, bidder shall extend the services as per the terms of this EOI.
3. Potential bidder shall submit their EOI along with requisite documents and financial bid by email on comm@pmrda.gov.in with cc to sepmrda@gmail.com . Hard copy may be submitted to Metropolitan Commissioner, Pune Metropolitan Development Authority, Maharaja Sayajirao Gaikwad Udyog Bhawan, Aundh, Pune 411 007, from 24th July 2020 at 10.00 Hrs up to 30th July 2020 before 16.00 Hrs.
4. Looking at the short period of submission, the potential bidders are informed to submit their bid in time. No extension to the date and time of submission will be granted. Bid submitted by email or hard copy submitted after 16.00 hours on 30th July 2020 will not be considered.
5. Financial Bid shall be submitted as prescribed in Annexure-II in a password protected file over mail, whose password shall be shared with PMRDA during or after the evaluation of technical bid when asked for.
6. For any additional information, please contact Bharatkumar Bawiskar, Executive Engineer, PMRDA (Mob: 9823122829).
7. The Expression of Interest shall be downloaded from www.pmrda.gov.in.
8. CA certificate shall be submitted as a proof of net worth and annual Turnover

F. Expression of Interest shall include the following documents:

1. The bidder shall submit on his letterhead, the declaration about unconditional acceptance of terms and conditions of this EOI and that the documents and information submitted by him are true and

correct.

2. Documents related to the similar experience of the bidder having adequate knowledge and experience in creating similar facilities.

3. Completed E.O.I. Form along with Annexures (Annexure II (financial bid) shall be submitted in a separate password protected file)

4. Conceptual Architectural Designs of the 600 Oxygenated Bedded and 200 Critical Care Bedded (140 HDU + 60 ICU) i.e. total 800 bedded DCHC / DCH.

5. Copies of all relevant certificates.

6. All Bidders will have to give a presentation to the appointed members of the Evaluation Committee / Infrastructure Committee / Steering committee appointed for this purpose, on the prescribed date and time as informed with one day notice. The presentation must cover the following key areas:

    1. Quality of Service
    2. Financial aspects
    3. Experience of the firm and manpower to be provided

The financial offer of a qualified bidder will only be considered.

This Expression of Interest does not entail any commitment on the part of PMRDA and does not constitute a solicitation. PMRDA reserves the right to change, alter or cancel this E.O.I. without assigning any reasons, to accept or reject any or all expressions of interest without incurring any obligation to inform the affected Applicant of the grounds. Any costs associated with the submission of the E.O.I. will have to be borne by the Applicant and any such associated costs will not be reimbursed by PMRDA.

G. Deleted

H. Acceptance of E.O.I.: -

The decision of the Steering Committee / Metropolitan Commissioner shall be final and binding on the bidders. PMRDA does not pledge itself to accept the lowest or any E.O.I. The Metropolitan Commissioner reserves the right to reject any or all offers without assigning any reasons.

Please note that PMRDA requires complete turnkey solutions. Hence, bidders are required to include all infrastructure work to be included in the scope for setting Dedicated COVID Healthcare Centre facility.

a. Incomplete and Conditional offers will not be accepted.
b. The successful bidder to mutually agree upon payment terms and the payment after deducting

statutory taxes etc. shall be made as per agreed terms.

c. A total no of ICU beds in each facility stated above shall be provided. However, payment will be made as per the actual execution of work in that facility.

d. Mobilization period: - The successful bidder will be given 2 days to start the said work at the site. If a successful bidder fails to mobilize required materials within a given time, the work order issued will be canceled and the work may be assigned to other qualified bidders completely or on sharing of unit basis.

e. Professional excellence: - It is the sole responsibility of the Bidder to provide turnkey services. It is expected that the Bidder / Group company shall provide their services of highest professional excellence. The Bidder should have the highest integrity and ethics towards their profession.

f. Stamp Duty: The successful bidder shall enter into an agreement with PMRDA. It is required to pay required stamp duty in the form of e-SBTR (electronic Secure Bank and Treasury Receipt), as per prevailing rules at the time of agreement..

I. i) Security Deposit-

Selected Bidder shall pay @ 2% of the accepted offer amount after acceptance of the offer in the form of bank guarantee. The same shall be returned after dismantling the structure and handing over the clear site to the competent Authority.

ii) Retention money :

Retention Money @ 5 % of the total amount payable shall be withheld from each RA bill. The same shall be returned after dismantling the structure and handing over the clear site to the competent Authority.

J. Liquidated Damages:

This EOI is published for providing the dedicated covid centre on an emergency basis. In case, the successful Bidder fails to provide the facility complete in all respects within 22 days, liquidated damages to the tune of 0.1% of the offer amount per day subject to the total damages up to 10% of the offer amount will be applicable. The bidder is therefore advised to make all efforts to avoid any delay in providing the above facility.

Further, if the hospital does not remain functional 24x7, and the life of the admitted patients is at risk, damages will be recovered from the payment due

K. (a) Payment Schedule:

The work for providing the infrastructure facility will be divided into milestones and 60 % payment will

be made across completion of each milestone with an initial 15 % as mobilisation advance.

Mobilisation advance will be adjusted against the first RA bill i.e.at the time of payment for first milestone 1.

The details of each milestone have been given below. The decision about satisfactory completion of each milestone will be made by the competent authority and will be final and binding. In case of any discrepancy, the bidder should make the facility good as directed by the competent authority.

Work Done	**Amount to be Paid (as % of Total Accepted Bid Cost)**
Mobilisation Advance	15%
Milestone 1: Erection of the complete structure at site	25%
Milestone 2: Commencement of Operations of DCHC/DCH	20%

The remaining 40 % payment will be made in 6 equal monthly installments after the satisfactory operation of the facility. The decision made by the competent authority about the satisfactory operation will be final and binding. If the period of COVID center seizes before 6 months, the balance payment will be done on a pro-rata basis.

In case of extension of this contract, the payment per day will be paid at following rate:

Per day Payment in extension period = (0.4* Accepted Bid Cost) / 180

Extension period payment will be done on a monthly basis.

K.(b). Termination:

It is the responsibility of the successful bidder to provide this facility exclusively within a specified period of 22 days as above and he is required to keep it operational 24x7 with required satisfactory services. In case if the successful bidder fails to commence this facility within 22 days, unless allowed by the competent authority on specific grounds, or fails to operate it 24x7 in a satisfactory manner or he takes away any of the required medical or non-medical equipments or furniture before expiry of the contract (which will be communicated to him in writing, in advance), his contract will be terminated and the payment due to him will be forfeited. Further, the retention money withheld earlier will also be forfeited.

L. Committees of the Competent Authority:

The competent authority will appoint from time to time various committees for the acceptance of the EoI till the completion of the operation of this facility. The decisions of these committees will be final and

binding on the successful bidder.

M. Additional Requirements:

1. PMRDA will obtain all necessary permissions and NOCs for providing this hospital facility. The successful bidder shall be responsible for providing fire safety and other required safety measures as per the norms.
2. All the hospital infrastructure excluding - the rented Hangers, cladding and other rented commodities- will be the property of PMRDA. All other facilities, Medical and Non-Medical reusable equipment and furniture shall be handed over in good condition to PMRDA. The cost of damaged articles will be recovered as per the quote of the bidder from his Retention Money. Therefore, all such facilities and equipment shall be properly used and protected during the operation of the hospital.
3. The successful bidder shall make the hospital site completely free and bring it to original status at his own expenses and handover the clear site to the competent authority.
4. The retention money will be released only after satisfactory compliance of the above.

   Therefore, before submitting the offer, the bidder shall make himself completely aware of the various requirements of the site and submit his bid considering all the above aspects.

5. The bidder is required to provide this Hospital facility at **COEP ground, Shivajinagar, Pune or any other suitable location at Pune** specified by PMRDA, after receipt of the offer. No change in the offer will be applicable due to this change in location.

N. Timeline:

Sr. No.	**Task**	**Date and Time**
1.	Advertisement in Newspaper	23.07.2020
2.	Submission of EOI with all required documents via e-mail	24.07.2020 10.00 Hrs. to 30.07.2020 16.00 Hrs.
3.	Pre-Bid meeting by video conference (Link for VC: meet.google.com/brd-rfpq-pck)	29.07.2020 17.00 Hrs
4.	a) Evaluation of Technical Bids at the Office of the Metropolitan Commissioner, Pune Metropolitan Development Authority, Maharaja Sayajirao Gaikwad Udyog Bhawan, Aundh, Pune.	30.07.2020 17.00 Hrs.
	b) Presentation by Bidders (5-10 mins each bidder)	30.07.2020 17.30 Hrs.

5.	Opening of the Financial Bid submitted over password protected file	After successful evaluation of the technical bid (possible date and time Friday 31st July, 11.00 Hrs.)

O. Variation:

1. This DCHC/DCH facility is to be provided for 800 beds (600 oxygenated + 140 HDU + 60 ICU beds). However the facility may be required to be extended for more beds in case of emergency. The bidder shall be required to make arrangements for 20% extra beds i.e. for 160 extra beds if required. The payment of providing these additional beds will be as per the per day per bed offer of the bidder.
2. The number of ICU beds may be required to be increased in case of Emergency. The bidder shall make arrangements to convert the HDU beds partly or fully to ICU beds as per requirements. The payment of converting these HDU beds to ICU beds as per the difference between per day per bed offer of the bidder for HDU and ICU beds.

P. Dispute Resolution:

The Infrastructure Technical committee and the healthcare consultant appointed by PMRDA for the project will closely review and monitor the day to day activities of the bidder. In case of any disputes, the matter shall be referred to the infrastructure technical committee. And if not resolved, it shall be referred to the Steering Committee headed by the Hon. Divisional Commissioner, Pune Division. The decision of the Steering Committee shall be final and binding on all the parties.

Q. Coordination:

This Project has interdependability between various authorities like Steering Committee, Infrastructure Technical Committee, Health Technical Committee, PMRDA, PMC, Healthcare Consultant, etc. The successful bidder shall coordinate with the DCH Management Authority. PMRDA's approval to be taken before commencing any activity and this DCH is to be established under consultation of the healthcare consultant appointed by PMRDA. The decision of the Steering Committee shall be final and binding on all the parties.

R. Appointment of Project Management Consultant:

The successful bidder shall appoint project management consultant at his own cost for internal coordination and to ensure efficient delivery of services. The appointment of the said consultant should be done with the prior approval of PMRDA. This Project Management Consultant should have sufficient experience of execution of such or similar projects. The role of Project management consultant will be to assist the bidder in providing the facilities as per the scope of work mentioned in this EOI and to work as a link between the bidder and all other authorities as mentioned above. The

decision of PMRDA / Steering Committee about the PMC shall be final and binding on all the bidder.

S. Providing the services to other location:

If required, similar DCHC/DCH facilities may be required to be provided at other locations through PMRDA. In such case, the successful bidder or any other qualified bidder shall provide this scope at any other location in Pune district at this accepted rate. The decision of the PMRDA / Steering Committee in this regard shall be final and binding on all the bidders.

(Vivek Kharwadkar)
Chief Engineer, PMRDA

(Dr. Suhas Diwase)
Metropolitan Commissioner, PMRDA

Full Name, Signature of the bidder With official seal and address
(For the acceptance of EOI conditions)

ANNEXURE -I

Technical Bid

Date:-.....

(Following information to be submitted along with EOI as detailed hereinbelow on the letterhead of the Bidder. Put a tick mark where applicable. Write NA where not applicable. All fields are necessary)

1. Name & Postal Address and Telephone Number of the Registered Head Office of the Bidder.

2. Names and addresses of all the Directors.

3. e-mail address Directors.

4. Name of the Power of attorney holder

5. Details about the responsible managers to be provided for execution at site,

Sr. No.	Name, Address, Telephone, Mobile Number, Fax Number of competent personnel	Qualification	Designation	Registration No.
Note: To be attached separately with Name, Signature of the bidder With official seal and address.				

6. The bidder has to be registered under the Indian Companies Act-1956 (1 of 1956)

a. Furnish photocopy of Certificate of Registration.

b. In the case of Limited Companies furnish a copy of the memorandum of Association and Articles of Association.

c. Name and post of the Officer / Address, Phone Number who should be contacted by this office in case of emergency. Details of the present similar services provided by the bidder

d.Bank Details of the bidder

Name of the Bank:

Branch:

Account Type:

Account No :

IFSC Code:

MICR Code:

e. Other Relevant Documents:

I/We have carefully gone through the EOI requirement; we are confident to fulfil the exact requirement asked for with the required documents to be provided along with the EOI. I/We assure you for the same and accordingly I/we are participating in this EOI process.

I/We have carefully gone through the EOI documents and the term and conditions mentioned therein & are all acceptable & agreeable in entirety to me/us.

Full Name, Signature of the Bidder with Official Seal & Address

ANNEXURE -II

Financial Bid

(To be submitted over mail in a Password Protected File)

Financial Quotation inclusive of all taxes (excluding GST)

To arrive at the total cost as below, the bidder may refer minimum requirements specified in Annexure IV

Sr. No.	Facility	Total cost for the facility for 180 days (Capital cost + Rental cost + manpower cost, etc. all inclusive) (INR)
1	600 Oxygenated Beds	
2	140 HDU Beds	
3	60 ICU Beds	
	Total cost (INR)	(A)

Offer Per Bed Per Day Cost INR (in figures)

= A / (800 x 180)

=.....

Per Bed Per Day Cost INR (in words) ----------

*The per bed per day cost shall be arrived at by dividing the total cost of infrastructure by 800 beds and by 180 days and this shall be mentioned above as an offer.

The amount shall be mentioned in Numbers and words.

a. In case of error, the amount mentioned in words will be considered.
b. All other statutory taxes will be deducted by PMRDA while releasing the payments as per the policy.

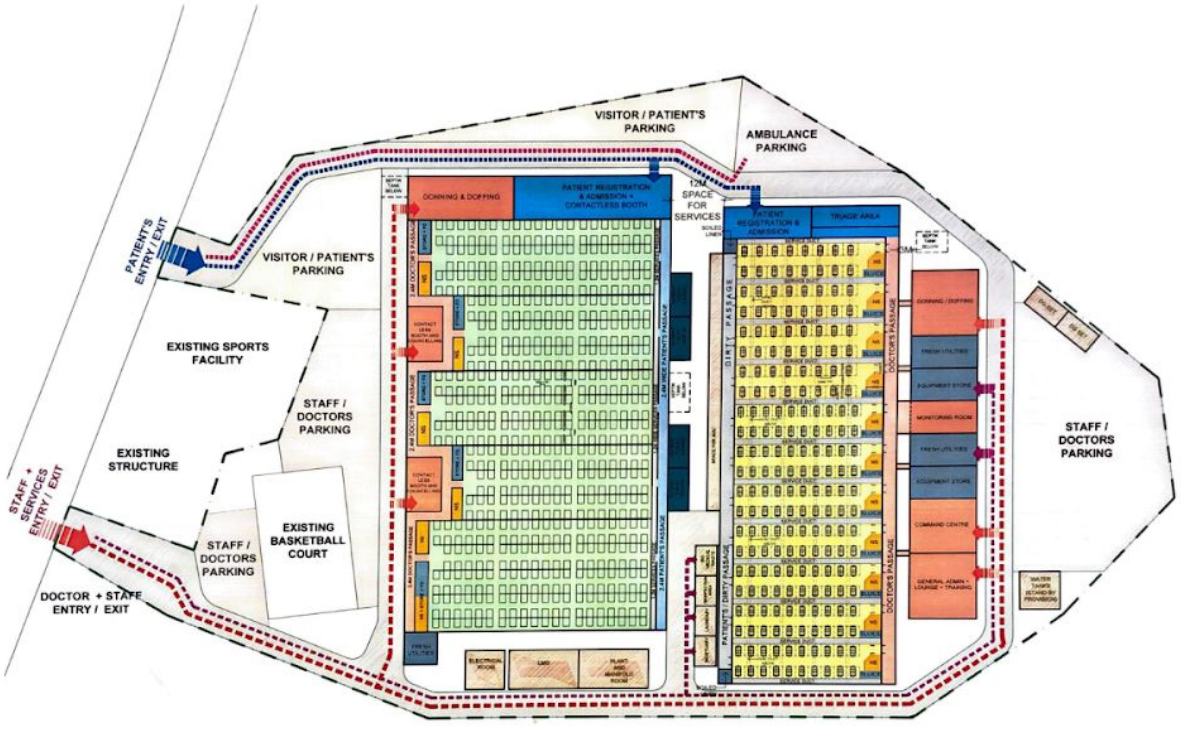
c. The rate quoted shall be inclusive of all types of expenses like Taxes (Excluding GST, GST will be paid separately at actuals), insurance charges, allowances, conveyance, food, municipal charges like water supply, electricity bill, biomedical waste management, and any other such expenses that may be applicable in all respects.

d. Financial Offers will be compared considering Average per bed per day cost (for 800 beds and for 180 days).

e. The statutory taxes will be deducted by PMRDA while releasing the payments as per the policy.
f. Financial offers may be submitted by the Potential bidder along with requisite documents and financial bid from their own email-id to comm@pmrda.gov.in with CC to sepmrda@gmail.com. Also, a hard copy of such Bids can be submitted to Metropolitan Commissioner, Pune Metropolitan Development Authority, Maharaja Sayajirao Gaikwad Udyog Bhawan, Aundh, Pune 411 007, from 24th July 2020 at 10.00 Hrs up to 30th July 2020 before 16.00 Hrs.
g. Financial Bid shall be submitted as prescribed in this Annexure-II in a password protected file over mail, whose password shall be shared with PMRDA during or after the evaluation of technical bid when asked for.

ANNEXURE -III

Indicative Layout



ANNEXURE -IV

Minimum Requirements of this EOI

Budget Estimate					
Sr. No.	**Particulars**	**Qty**	**CAPEX**	**OPEX**	**Total Estimated Budget**
	Infrastructure				
1	German Hangar 1 - Non AC (56,000 sqft -600 beds) Including General Lights, cabling, Power Distribution and Fittings	56000 Sqft			
2	German Hangar 2 - Non AC (56,000 sqft -600 beds) Including General Lights, cabling, Power Distribution and Fittings	40000 Sqft			
3	Ground Levelling/ BT surfacing				
4	Water Supply & Drainage				
5	DG Set Rentals				
6	Electricity Bill/ Ws-Drainage arrangement/ Bill				
7	Miscellaneous Rents				
8	Shower and Toilets	200 Nos (100+100)			
9	Internal Structure for ICU (40000sqft)	40000 Sqft			
10	Medical Gas Pipeline System (for 800 beds)	96000 Sqft			
11	HVAC - Critical Care with Negative pressure, Hepa filtration	Suitable capacity			
12	Human Resource (IT, Software, CCTV, Internet Electricians, Technicians, HVAC, Housekeeping, Security, etc.)				
13	Accomodation	As per requirement			
14	Catering	As per requirement			
15	Insurance	Full Capacity			
16	IT (Hardware, Software, Lan cables and points, Internet)	100000 Sqft area			
17	overheads				

18	Contingency				
19	Other Requirements				
Total					

Addendum - 1

Technical Specifications for various Items(Quantities are indicative)

1. German Hangars:

Specification : German Hangars 60 m, 40 m Pillarless
Eave height: 4.5 mtr
Ridge height: 5.65-8.65 m, main profile size: 166x88x3mm
Cover, Side Walls : Double PVC coated polyester, 850g/sqm, block-out, water-proof
UV resistant, fire retardant double PVC coated polyester,
850g/sqm, block-out, water-proof, UV resistant, fire retardant
Connectors: Hot dipped galvanized steel

2. Fabrication of Partitions, ceilings, flooring etc.:

Sr. No.	Item	SPECIFICATION	Unit	Approx. Quantity
1	**Supply & Application of Panel**	Supply & Installation of Fibre reinforced aerated cement sandwich modules of 75 mm thick of size 3000 mm x 600 mm, Non Asbestos Panels having a tongue and groove on longitudinal side of the sandwich modules for joint of walls.These Panel modules are erected/installed using galvanised GI tracks of 0.5 mm thick, and of size 25mm x mm x 14mm as bottom track, 25mm x 101 mm x 25mm as top track for fixing to the floor and top of the wall respectively including all necessary material required for erecting and fixing the wall panel complete as per the direction of the Engineer -in-charge. Finally the bevelled edges of the board in the Panel are to be jointed & finished using Fiber Tape & Jointing Compound so as to achieve flush finish.	sqft	65636.00
2	**Antibacterial Paint**	Antibacterial Paint to be applied on the finished surface of the Panels.	Sqm	65636.00

3	**1 MM powder coated grid ceiling system on 400mm X 400mm Metal Grid**	Providing and Fixing of Grid Ceiling System of 1 mm thick Powder Coated Light Weight Metal Grid , Silicon filling on all joints.	Sqm	30000.00
4	**Supply & Application of Vinyl Flooring**	Providing and Application of Vinyl Flooring 2 mm Thick with welded joint and coving.	Sqm	43000.00
5	**Structural Framework for Partition & Ceiling**	Supply of Structural Framework:Mild steel Duly designed & certified by Registered Structural Engineer. With Columns, Truss, Cross members,Blue members,White members, Foundation Bolt & Miscellaneous connection items. Painting on MS Structure with 1 coat of Red Oxide .	Tonn	100.00

3. HVAC:

Supply Installation & Commissioning of Negative Pressure Air Conditioning

Air Cooled A/C Unit 140 Tr and 110 Tr capacity each
Supply Air Handling Unit
EU-4 Filter. Supply Air as per required CFM. Along with HEPA Filters and standby motor
Exhaust AHU
Exhaust AHU- double skin Along with HEPA Filters and standby motor as per specification rev. TS-2
Flexible and GSS Ducting:

Supplying fabrication installation testing and commissioning of GI. Sheet metal ducting. Zinc coated. Complete with all Standard Accessories, G.I. Hardware, Self Adhesive elastomeric foam gasket, support etc as per SMACNA specification. Providing thermal insulation to supply air ducting with 19mm. thickness nitrile rubber
HEPA filter
Containment HEPA Filter (H14) Housing with Test elbow port
with BIBO Indigenous with Test elbow port: The HEPA filter plenums made in SS304 (14 gauge) with airtight and leak proof construction. The HEPA filter plenums shall be provided with Isolation dampers at Inlet and Outlet and shall have provisions and facility to carry out onsite HEPA filter scanning, testing and validation, magnehelic pressure gauge to monitor pressure drop across the HEPA filter, fumigation ports to allow IN-SITU decontamination of HEPA filters and Bag-In- Bag-Out facility for change / replacement offers. Provided on the basis of supply air room volume, length of duct.
Cable Tray
Readymade 2500mm standard length, prefabricated, perforated cable tray from MS sheet and then hot dip galvanised, and associated accessories such as coupler plates, tees, elbow etc. Galvanisation thickness shall be minimum 86 Micron. 100 x 25mm (W x H) - (16 SWG - 1.6mm) without cover
Note: Air temperature of 25-26 degrees to be maintained inside the ICU unit

4. **Specifications for Oxygenated Beds:**

Iron Cot Specifications:
32mm x 16 Gauge MS Pipe Legs
20mm x 16 Gauge Pipe Leg Supports.
Bed Frame Material: 20mm x 40mm x 16 Gauge Rectangular Pipe and 18 Gauge CR Sheet.

Finishing : Powder Coated.
Size: 30" x 72" Length.
Complete welded assembly.
With teflon bushes for bottom covers.
Load capacity of 150 kgs.

5. MGPS:

Sr. No.	Item	Unit	Qty
1	SITC of Copper Pipes of 54mm OD x 1.2mm thk: Medical Grade Copper Tube/Pipes : It should be confirmed and meets with BS:EN:13348:2008 copper pipes: All medical grade degreased copper pipes must be inspected and duly Third Party Certified by Lloyd's Registered Asia. Medical Grade Copper pipes manufactured from Phosphorous de-oxidized non-arsenical copper to BS:EN: 1412:1996 grade CW 024A (Cu-DHP) manufactured to metric outside diameters and having mechanical properties in accordance with BS:EN: 13348:2008 & 250 (Half hard), Degreasing of pipe shall be such that there is less than 20 mg/m2(0.002mg/cm2) of hydrocarbons on the degreased surface when tested by the method specified BS:EN:13348:2008	Mtrs	250
2	SITC of Copper Pipes of 35mmOD x 1.2mm thk Medical Grade Copper Tube/Pipes : It should be confirmed and meets with BS:EN:13348:2008 copper pipes: All medical grade degreased copper pipes must be inspected and duly Third Party Certified by Lloyd's Registered Asia. Medical Grade Copper pipes manufactured from Phosphorous de-oxidized non-arsenical copper to BS:EN: 1412:1996 grade CW 024A (Cu-DHP) manufactured to metric outside diameters and having mechanical properties in accordance with BS:EN: 13348:2008 & 250 (Half hard), Degreasing of pipe shall be such that there is less than 20 mg/m2(0.002mg/cm2) of hydrocarbons on the degreased surface when tested by the method specified BS:EN:13348:2008	Mtrs	275
3	SITC of Copper Pipes of 28mm OD x1.0mm thk Medical Grade Copper Tube/Pipes : It should be confirmed and meets with BS:EN:13348:2008 copper pipes: All medical grade degreased copper pipes must be inspected and duly Third Party Certified by Lloyd's Registered Asia. Medical Grade Copper pipes manufactured from Phosphorous de-oxidized non-arsenical copper to BS:EN: 1412:1996 grade CW 024A (Cu-DHP) manufactured to metric outside diameters and having mechanical properties in accordance with BS:EN: 13348:2008 & 250 (Half hard), Degreasing of pipe shall be such that there is less than 20 mg/m2(0.002mg/cm2) of hydrocarbons on the degreased surface when tested by the method specified BS:EN:13348:2008	Mtrs	300
4	SITC of Copper Pipes of 22mm OD x1.0mm thk Medical Grade Copper Tube/Pipes : It should be confirmed and meets with BS:EN:13348:2008 copper pipes: All medical grade degreased copper pipes must be inspected and duly Third Party Certified by Lloyd's Registered Asia. Medical Grade Copper pipes manufactured from Phosphorous de-oxidized non-arsenical copper to BS:EN: 1412:1996 grade CW 024A (Cu-DHP) manufactured to metric outside diameters and having mechanical properties in accordance with BS:EN: 13348:2008 & 250 (Half hard), Degreasing of pipe shall be such that there is less than 20 mg/m2(0.002mg/cm2) of hydrocarbons on the degreased surface when tested by the method specified BS:EN:13348:2008	Mtrs	1050

5	SITC of Copper Pipes of 15mm OD x 0.9 or 1.0mm thk Medical Grade Copper Tube/Pipes : It should be confirmed and meets with BS:EN:13348:2008 copper pipes: All medical grade degreased copper pipes must be inspected and duly Third Party Certified by Lloyd's Registered Asia. Medical Grade Copper pipes manufactured from Phosphorous de-oxidized non-arsenical copper to BS:EN: 1412:1996 grade CW 024A (Cu-DHP) manufactured to metric outside diameters and having mechanical properties in accordance with BS:EN: 13348:2008 & 250 (Half hard), Degreasing of pipe shall be such that there is less than 20 mg/m2(0.002mg/cm2) of hydrocarbons on the degreased surface when tested by the method specified BS:EN:13348:2008	Mtrs	4215
6	SITC of Copper Pipes of 12mm OD x 0.9 or 1.0mm thk Medical Grade Copper Tube/Pipes : It should be confirmed and meets with BS:EN:13348:2008 copper pipes: All medical grade degreased copper pipes must be inspected and duly Third Party Certified by Lloyd's Registered Asia. Medical Grade Copper pipes manufactured from Phosphorous de-oxidized non-arsenical copper to BS:EN: 1412:1996 grade CW 024A (Cu-DHP) manufactured to metric outside diameters and having mechanical properties in accordance with BS:EN: 13348:2008 & 250 (Half hard), Degreasing of pipe shall be such that there is less than 20 mg/m2(0.002mg/cm2) of hydrocarbons on the degreased surface when tested by the method specified BS:EN:13348:2008	Mtrs	2600
7	SITC of Medical Gas Terminal Units (Gas Outlet Points) for Oxygen : It should fully comply and meets with the requirements of the UK DOH Health Technical Memorandum 02-01 (HTM 02-01) standards only. It shall be duly CE marked to the Medical Device Directive 93/42/EEC under the auspices of notified body no. 0088 and under this directive, med gas products are classified as Class IIb Medical Devices. It shall have gas indexing geometry. Other gas specific indexing geometries are not acceptable. Terminal unit front fascia should be metal and it should be hundred percent metal. Gas specific components comprising the terminal unit second fix shall be manufactured from die-cast zinc alloy or similar hard wearing metal. Plastic components are not acceptable. Terminal units socket castings shall be permanently coated with a low friction fluoropolymer for maximum reliability and service life. The terminal unit socket die-casting shall incorporate a gas indexing pin to overcome the risk of loosening due to rough handling or abuse. The second fix socket shall incorporate a sheer-plane to safeguard the first fix and pipeline in the event of accidental damage or bed jacking. Gas specific components shall incorporate the gas identity marking permanently stamped or cast into the component surface. The first fix shall be all metal construction, with a brass base block and copper stub pipe. The first fix shall incorporate an integral check valve to enable servicing of the second fix and valve seals without isolation of the gas supply. Wall mounted terminal units shall be provided with white ABS mounting box with matching fascia.	Nos	1023

8	SITC of Medical Gas Terminal Units (Gas Outlet Points) for MA4 : It should fully comply and meets with the requirements of the UK DOH Health Technical Memorandum 02-01 (HTM 02-01) standards only. It shall be duly CE marked to the Medical Device Directive 93/42/EEC under the auspices of notified body no. 0088 and under this directive, med gas products are classified as Class IIb Medical Devices. It shall have gas indexing geometry. Other gas specific indexing geometries are not acceptable. Terminal unit front fascia should be metal and it should be hundred percent metal. Gas specific components comprising the terminal unit second fix shall be manufactured from die-cast zinc alloy or similar hard wearing metal. Plastic components are not acceptable. Terminal units socket castings shall be permanently coated with a low friction fluoropolymer for maximum reliability and service life. The terminal unit socket die-casting shall incorporate a gas indexing pin to overcome the risk of loosening due to rough handling or abuse. The second fix socket shall incorporate a sheer-plane to safeguard the first fix and pipeline in the event of accidental damage or bed jacking. Gas specific components shall incorporate the gas identity marking permanently stamped or cast into the component surface. The first fix shall be all metal construction, with a brass base block and copper stub pipe. The first fix shall incorporate an integral check valve to enable servicing of the second fix and valve seals without isolation of the gas supply. Wall mounted terminal units shall be provided with white ABS mounting box with matching fascia.	Nos	409
9	SITC of Medical Gas Terminal Units (Gas Outlet Points) for Vacuum : It should fully comply and meets with the requirements of the UK DOH Health Technical Memorandum 02-01 (HTM 02-01) standards only. It shall be duly CE marked to the Medical Device Directive 93/42/EEC under the auspices of notified body no. 0088 and under this directive, med gas products are classified as Class IIb Medical Devices. It shall have gas indexing geometry. Other gas specific indexing geometries are not acceptable. Terminal unit front fascia should be metal and it should be hundred percent metal. Gas specific components comprising the terminal unit second fix shall be manufactured from die-cast zinc alloy or similar hard wearing metal. Plastic components are not acceptable. Terminal units socket castings shall be permanently coated with a low friction fluoropolymer for maximum reliability and service life. The terminal unit socket die-casting shall incorporate a gas indexing pin to overcome the risk of loosening due to rough handling or abuse. The second fix socket shall incorporate a sheer-plane to safeguard the first fix and pipeline in the event of accidental damage or bed jacking. Gas specific components shall incorporate the gas identity marking permanently stamped or cast into the component surface. The first fix shall be all metal construction, with a brass base block and copper stub pipe. The first fix shall incorporate an integral check valve to enable servicing of the second fix and valve seals without isolation of the gas supply. Wall mounted terminal units shall be provided with white ABS mounting box with matching fascia.	Nos	409
10	SITC of Imported Medical Gas Area Line Pressure Alarm for 1 Gas : It should fully complies and meets with the requirements of the NFPA-99 & It should be UL or ETL Listed	Nos	17
11	SITC of Imported Medical Gas Area Line Pressure Alarm for 3 Gases : It should fully complies and meets with the requirements of the NFPA-99 & It should be UL or ETL Listed	Nos	12

12	SITC of Imported Dual Pressure witches for Oxygen, Air & Vacuum : It should fully complies and meets with the requirements of the NFPA-99 & It should be UL or ETL Listed	Nos	53
13	SITC of Oxygen Manifold (10+10size) : Oxygen Main Manifold (10+10). with 20nos. pig tail pipes & 20nos. of non return valves with middle frame complete. 10cylinder manifold bank as left side and 10cylinder manifold bank as right side complete with 20 nos.pig tailpipes and 20nos. non-return valves. It should fully comply and meet the requirements of the UK DOH Health Technical Memorandum 02-01 (HTM 02-01) standards only. It shall be duly CE marked to the Medical Device Directive 93/42/EEC under the auspices of notified body no. and under this directive, med gas products are classified as Class IIb Medical Devices. It shall be provided with a copy of the certificate of origin from the chamber of commerce. All header racks and cylinder tailpipes should be 230 bar rated, with high pressure copper link pipes verified by technical files with the quality system. It should have all regulators which should be adiabatic certified. The oxygen manifold supply system shall consist of an automatic changeover manifold control panel, hereinafter referred to as manifold control panel, complete with cylinder header racks and tailpipes with capacity and sizes as mentioned in schedule of quantities for high pressure gas cylinders.	Nos	2
14	SITC of Imported Digital Oxygen Fully Automatic Changeover Control Panel of 2000lpm : It should fully complies and meets with the requirements of the NFPA-99 & It should be UL or ETL Listed	Nos	2
15	SITC of Stainless Steel Probe.	Nos	1841
16	SITC of Imported Oxygen Flow Meter.	Nos	818
17	SITC of Imported Humidifier Bottle	Nos	818
18	SITC of Imported 1 Gas Valve Box with pressure gauge only for Oxygen. : It should fully comply and meet the requirements of the NFPA-99.	Nos	17
19	SITC of Imported 3 Gases Valve Box with pressure gauge only for Oxygen , MA4 & Vacuum. : It should fully comply and meet the requirements of the NFPA-99.	Nos	12
20	SITC of Imported Lockable Ball Valve/ Isolation Valves for 15mm with pipe (Pre Piped valve). : It should fully comply and meet the requirements of the NFPA-99.	Nos	55
21	SITC of Imported Lockable Ball Valve/ Isolation Valves for 22mm with pipe (Pre Piped valve). : It should fully comply and meet the requirements of the NFPA-99.	Nos	28
22	SITC of Imported Lockable Ball Valve/ Isolation Valves for 28mm with pipe (Pre Piped valve). : It should fully comply and meet the requirements of the NFPA-99.	Nos	22
23	SITC of Imported Lockable Ball Valve/ Isolation Valves for 35mm with pipe (Pre Piped valve). : It should fully comply and meet the requirements of the NFPA-99.	Nos	21
24	SITC of Imported Lockable Ball Valve/ Isolation Valves for 54mm with pipe (Pre Piped valve). : It should fully comply and meet the requirements of the NFPA-99.	Nos	20
25	SITC of Imported Vacuum Pump : It should be a rotary vane vacuum pump, having each Pump Capacity of 3300 LPM with Motor rating of minimum 7.5 HP. Vacuum Pump Dimension should be (977 x 583 x 418) mm approx. Wight should be 160 KG approx. Vacuum pump shall comprise of air cooled, oil lubricated rotary vane vacuum pumps suitable for both continuous and frequent start / stop operation at inlet vacuum vessels between 525mm Hg and 700 mm Hg. The Vacuum Pump should be air cooled and oil lubricated rotary vane vacuum pumps designed for use in the field	Nos	4

	of high quality vacuum. It should be a robust construction, reliable operation, highly resilient carbon fibre vanes. The unit should have extremely low vibration. The noise level of the pumps should not exceed 75dB A. It should be maintenance free. Apart from changing oil and filters at regular service intervals, no further maintenance shall be required. (2 working and 2 as stand by)		
26	SITC of Imported Vacuum Filter (Bacteria Filter) of 100cfm– 3" Filter housing with drain flask: It fully complies and meets with requirements of UK HTM 02-01. The bacteria filter should be designed for critical application involving removal of liquid, solid and bacterial contamination from suction side of vacuum pump system. It should have efficiency of at least 99.99% when tested by sodium flame test and that should be according to BS 3928:1969 utilizing particles in 0.02 to 2 micron size range. It should be provided with transparent drain flask. (2 working and 2 as stand by)	Nos	4
27	SITC of Indigenous Vacuum Receiver Tank of 2000 Litres water capacity with Pressure Gauge.	Nos	2
28	SITC of Imported Oil Free Scroll Air Compressor : It should be 50Hz, 3 Phase, 440volts. 8 Bar, 116 Psig. 85cfm at 8 Bar. 22 Kw & 30 Hp. The 85cfm flow capacity for each compressor unit having suitable motor rating of scroll air cooled compressor. Compressors shall be oil free scroll compressors suitable for both continuous and frequent start/stop operation at a nominal outlet pressure of 800 kPa (8 bar). Each compressor shall have at least two individual scroll elements. The air quality shall be 100% oil free, certified ISO8573-1. The compressor shall have a sound insulating enclosure. (3 working and 3 as stand by)	Nos	6
29	SITC of 250cfm Heatless Air Dryer - It should have air dryer desiccant type, each having full capacity of plant flow with a minimum accuracy in a range from -20 deg.C to -60 degC atmosphere dew point with a set point of -45 c degree. (2 working and 2 as stand by)	Nos	4
30	SITC of Imported coarse coalescing filter 3/4" 85 SCFM Filter Housing Complete	Nos	2
31	SITC of Imported Fine coalescing filter 3/4" 85 SCFM Filter Housing Complete	Nos	2
32	SITC of Imported Activated Carbon Filter 3/4" 85 SCFM Filter Housing Complete	Nos	2
33	SITC of Imported Fine Dust Filter 3/4" 85 SCFM Filter Housing Complete	Nos	2
34	SITC of Indigenous Air Receiver Tank of 2000 Litres water capacity with Pressure Gauge.	Nos	2
35	SITC of Indigenous 4 Bar Reducing Regulator	Nos	2
36	SITC of Imported Medical Gas Rubber Tubing: Tubing shall be color coded throughout their length. All hoses shall incorporate an anti-static inner core. Medical oxygen - white, Medical air - black, Vacuum - yellow	Mtrs	500
37	SITC of Imported Digital Vacuum Regulator	Nos	204
38	SITC of Imported Vacuum Collection Jar 1000ml with lid	Nos	204
39	SITC of Electrical Control Panel for Vacuum pumps	Nos	1
40	SITC of Electrical Control Panel for Air Compressors	Nos	1
41	SITC of Electrical wiring inside plant room only for interconnection of vacuum pumps and air compressors (*Hospital will provide 3 phase & single phase power supply with cable inside the gas manifold and plant room. Hospital will provide DG	Nos	1

	back up and phase preventer + Isolation Transformer. Hospital will provide all electrical fixtures like exahust fan, light, power sockets inside gas manifold and plant room)		
42	SITC of Slotting angle cable tray (inside gas plant room area only)	Nos.	1
43	SITC of Empty D Type Cylinders ISI Marked with cylinder valve and Cap for Oxygen	Nos	80
44	SITC of Bed Head Panel Horizontal Double Duct of 1200mm with provision for 6 gas outlets & 8 electrical sockets. (* 6nos. Gas outet points to be fitted in the bed head panel.) Please note cost of gas outlet points not included in the cost of bed head panel since it is separate line item as mentioned above). 8nos. Electrical sockets cost included in the bed head panel. (* As per Drawing enclosed)	Nos	204