

चिकित्सा शिक्षा विभाग के अन्तर्गत राजकीय मेडिकल कॉलेज देहरादून / हल्द्वानी / श्रीनगर / हल्द्वानी / अल्मोड़ा की कोविड की तैयारियों की अद्यतन स्थिति ।

S.No.	PARTICULARS	Dehradun	Srinagar	Haldwani	Almora
1	<b>COVID-19 Vaccination</b>	N/A	N/A	N/A	N/A
2	Availability of Logistics -Antigen, Trunat, PPE N 95 etc, VTM Vials, Pulse Oximeter, CIPAP,BIPAP,O2 Concentrators	<ul style="list-style-type: none"> <li>• PPE- 4134,</li> <li>• N-95- 59078,</li> <li>• VTM Vials-10843,</li> <li>• RAT Kit – 450</li> <li>• TrueNat – 02 Machines</li> <li>• Pulse Oximeter-191,</li> <li>• Thermometer -231,</li> <li>• CIPAP/BIPAP-00,20</li> <li>• Oxygen Concentrators-519</li> <li>• Oxygen Cylinder – D type - 561 &amp; B Type - 167</li> </ul>	<ul style="list-style-type: none"> <li>• PPE- 16437,</li> <li>• N-95- 12955,</li> <li>• VTM Vials-1542,</li> <li>• RAT Kit – 450</li> <li>• TrueNat – using only for National Tuberculosis Elimination Program</li> <li>• Pulse Oximeter -240,</li> <li>• Thermometer -231,</li> <li>• CIPAP/BIPAP-05,46</li> <li>• Oxygen Concentrators-216</li> <li>• Oxygen Cylinder – D type - 380 &amp; B Type – 100</li> <li>• Antigen Kit-2230</li> </ul>	<ul style="list-style-type: none"> <li>• PPE- 10600,</li> <li>• N-95- 34374,</li> <li>• VTM Vials-3000,</li> <li>• RAT Kit – 450</li> <li>• TrueNat Chips – 7109</li> <li>• 3 liar Mask- 156550</li> <li>• CIPAP/BIPAP-00,08</li> <li>• Oxygen Concentrators-150</li> <li>• Antigen Kit-20508</li> </ul> <p>Oxygen Cylinder – D type - 500 &amp; B Type - 150</p>	<ul style="list-style-type: none"> <li>• PPE- 27416,</li> <li>• N-95- 32921,</li> <li>• VTM Vials-1237,</li> <li>• RT-PCR -6000</li> <li>• RAT Kit – 600</li> <li>• TrueNat Chips – 700</li> <li>• CIPAP/BIPAP-00,08</li> <li>• Oxygen cylinder – 311 D TYPE, 84 B TYPE</li> <li>• Oxygen Concentrator-250</li> </ul>
3	Oxygen Generation Plant status, FUNCTIONAL STATUS & MANPOWER / Oxygen Concentrators.	<ul style="list-style-type: none"> <li>➤ PSA Plant 2X1000 LPM By D.R.D.O- Both plants are Operational.</li> <li>➤ PSA Plant 1X1000 LPM By Aanjaneya Pvt. Ltd. Lucknow PSA Plant – is ready for trial run after electricity connection. (Delay due to Peyjal Nigam)</li> <li>➤ Oxygen Concentrators. Total – 741 (5L - 493, 7L - 90 , 10L - 158)</li> </ul>	<ul style="list-style-type: none"> <li>➤ Oxygen Generation Plant:2X 500LPM (OPERATIONAL)</li> <li>➤ Oxygen Generation Plant:1X 500LPM (OPERATIONAL)</li> <li>➤ Oxygen Generation Plant:2X 1000LPM installation completed (OPERATIONAL)</li> <li>➤ Oxygen Generation Plant:1X 1000LPM workcivil and electrical work completed (OPERATIONAL)</li> <li>➤ Manpower Oxygen plant:-04</li> </ul>	<ul style="list-style-type: none"> <li>➤ Oxygen Generation Plant:2X 500LPM (OPERATIONAL)</li> <li>➤ Oxygen Generation Plant:2X 1000LPM installation completed (OPERATIONAL)</li> <li>➤ Oxygen Generation Plant:2X 1000LPM installation completed (OPERATIONAL) but not in used due to upgradation electricity sub-station.</li> <li>➤ 20KL of 01 liquid oxygen plant in progress.</li> <li>➤ 20KL of 01 liquid oxygen plant for General B.C . Joshi covid hospital in</li> </ul>	<ul style="list-style-type: none"> <li>• HILL 500 LPM- 2</li> <li>• DRDO 1000LMP -1</li> <li>• ANJANEYA 1000 LMP-2</li> </ul>

				<b>progress.</b>	
4	Manpower	<p><b>Faculty :-</b></p> <ul style="list-style-type: none"> <li>➤ Professor -16,</li> <li>➤ Associate Prof-30,</li> <li>➤ Assistant Professor-64</li> <li>➤ EMO -04</li> <li>➤ Senior Resident-26</li> <li>➤ Junior Resident-55</li> <li>➤ PG Resident- 07</li> <li>➤ Tutor - 19</li> </ul> <p><b>Under NHM :-</b></p> <ul style="list-style-type: none"> <li>➤ GDMO -23,</li> <li>➤ Senior Consultant - 02,</li> <li>Junior Consultant -05</li> </ul> <p><b>Non teaching Staff</b></p> <p>Permanent- 285  Covid- 609  Contractual (Non Covid)-48  UPNL (Non Covid)-168  Security Guard (Non Covid)-139</p>	<p><b>Faculty :-</b></p> <ul style="list-style-type: none"> <li>➤ Professor -22,</li> <li>➤ Associate Prof-14,</li> <li>➤ Assistant Professor-28</li> <li>➤ EMO -00</li> <li>➤ Senior Resident-11</li> <li>➤ Junior Resident-85</li> <li>➤ PG Resident- 00</li> <li>➤ Tutor - 10</li> </ul> <p><b>Under NHM :-</b></p> <ul style="list-style-type: none"> <li>➤ GDMO -01,</li> <li>➤ Senior Consultant - 01,</li> <li>Junior Consultant -00</li> </ul> <p><b>Manpower ICU:</b> Pediatricians-05(Professor-01, Assistant Professor-02, S.R-02 Consultant NHM-01)  Junior Resident Trained in Pediatrics care-09  Intern Trained in Paediatrics care-20  Nursing Staff- 30 trained in Paediatrics care  Ward Attendant:12</p>	<p>Manpower:-  Faculty and other doctors-288</p> <p>Nursing staff-332  Technician – 95  Ministerial staff- 157  Fourth class-456  Others- 369</p>	insufficient
5	Regular Capacity Building of Various level of Health Care Workers (ICU Staff, Hospital Staff & front line workers)	Being done regularly.	<ul style="list-style-type: none"> <li>• Training and re-orientation sessions are conducted at regular interval. Till now 987 health care professional and ancillary staff has been trained. COVID-19 ICU training. Ventilator training. Oxygen therapy. Case management and IPC are important domains covered during training.</li> <li>• Currently institute is involved in training of Medical officers and Nursing officers nominated by state from four districts. Till now two batches has been covered. Proposal for next two training has been sent to state for approval.</li> </ul>	<ul style="list-style-type: none"> <li>• Training and re-orientation sessions are providing to all staff.</li> </ul>	<ul style="list-style-type: none"> <li>• ICU staff (deficiency) Required</li> <li>• 15 OT Technician, Hospital Staff</li> <li>• 20 Staff Nurse,</li> <li>• 10 Ward boy,</li> <li>• 10 Lab attendant</li> </ul>
6	ICU status / PICU /NICU STATUS – FUNCTIONAL STATUS &	a) ICU Beds-100,  <b>PICU/NICU TOTAL</b>	ICU-beds Adults-50 A) Ventilators adults-80 B) Oxygen beds-465 C) <b>Manpower</b>	<b>PICU/NICU</b>  PICU-82 ICU+ICCU for positive patient-	<ul style="list-style-type: none"> <li>• ICU BEDS- 40</li> <li>• Adult ICU-20</li> <li>• PICU-10</li> <li>• NICU- 10</li> </ul>

MANPOWER / Ventilator

PICU-158  
NICU+SNCU- 141  
Oxygen Bed- 375  
Total = 674

	Previous	Present
PICU	08	53
NICU	22	43
O2 BEDS	62	105
TOTAL BEDS	92	201

**Manpower**

A, Total Doctor Anaesthetist-09  
b, Junior Resident ICU+PICU-18  
c, Nursing Staff -72  
d, ICU Technician-25  
e, Ward Boy-49  
f, Fourth Class Staff including PICU-49

**Manpower -**

**Paediatrician – 12**

**Junior Resident Trained in**

**Paediatrics care – 09**

**Interns Trained in Paediatrics care –**

**10**

**Nursing staff – 30 Trained in Paediatrics care**

A, Total Doctor  
Anaesthetist-06  
b, Junior Resident  
ICU+PICU-14  
c, Nursing Staff -20  
d, ICU Technician-04  
e, Ward Boy-12  
f, Ancillary Staff including  
PICU- 08

PICU/NICU Status  
PICU-15  
NICU-34  
Pediatric Ventilators-10

**119  
SNCU-24**

	<b>Ventilator -</b>	<b>Ward boys – 08</b>  <b>Ventilator – 80, Maintenance &amp; Audit being done regularly.</b>	<b>Ventilator</b> maintenance and audit Committee constituted with head of anesthesia as nodal officer and in-charge COVID-ICU Done as per guidelines and needs.	<b>Ventilator – 200</b> (180 operational and 20 under repair)	<b>Ventilators Available-Functional-56</b>
7	Bed Availability & Escalation plan in case of surge.	<b>Total Beds 700 (90% Oxygen beds)</b> <b>COVID Beds 430</b> <b>Oxygen Beds 300</b> <b>ICU Beds (Adults) 100</b> <b>Ventilator (Adults) 82+20 = 102</b> <b>Pediatric Ventilator 08</b> <b>NICU Beds 43</b> <b>PICU Beds 53</b> Further Escalation is possible only after completion of Trauma building which is expected in coming month.	<b>ICU Beds (Adults) -50,</b> <b>Ventilator (Adults) - 80,</b> <b>Oxygen Beds -465</b> <b>Pediatric Ventilator</b> <b>PICU/NICU Status</b> <b>PICU-15</b> <b>NICU-34</b> <b>Pediatric Ventilators-10</b> <b>Pediatric oxygen beds-70</b> Beds can be increased depending upon circumstances.	<b>For GMC Haldwani teaching hospital</b> <b>ICU Beds - 100,</b> <b>Oxygen Beds - 376</b>  <b>For General B.C . Joshi covid hospital</b> <b>ICU Beds - 125,</b> <b>Oxygen Beds - 375</b>	Bed Availability- <ul style="list-style-type: none"> <li>• General ward- 240</li> <li>• Covid ward 30 reserved for pediatrics</li> </ul>
8.	Ambulance & Transport Facility.	<b>ALS Ambulance – 03</b> <b>BLS Ambulance -06</b> <b>Mammography Van – 01</b> <b>Hearse Ambulance -01</b>	Total Ambulance-06	Cardiac ambulance- 01 Ambulance- 02	Ambulance-0 Demand already send in case of research we manage with the help of admistration as in previous wave (2 <sup>nd</sup> wave)
9 / 10 /11	Optimal Utilization of Covid-19 Testing Capacity /Testing of ILI / SARI Cases / Optimal Utilization of RAT Testing Strategy.	<b>Covid-19 RTPCR Lab</b> <b>1. Daily Sample Testing Capacity</b> <ul style="list-style-type: none"> <li>• With pooling: 3200-3500 samples/day (subject to positivity rate).</li> <li>• Without pooling: 1500-1800 samples/day</li> </ul> <b>2. Manpower</b> <ul style="list-style-type: none"> <li>• Faculty: 03</li> <li>• PG Resident: 02</li> <li>• Research Scientist: 03</li> <li>• Research Assistant: 05</li> <li>• Lab. Technician: 22</li> <li>• Data Entry Operators: 06</li> <li>• Lab. Attendant: 03</li> </ul> <b>3. Shifts/Day:</b> 02/03( depending on the sample load) <b>4. Logistics</b> <ul style="list-style-type: none"> <li>• RT-PCR: 52,800 Reactions</li> <li>• RNA Extraction: 20,300 Reactions</li> <li>• Rapid Antigen test kits: 450 Reactions</li> <li>• Automated RNA extraction Machines: 05</li> <li>• RT-PCR Machines: 04</li> <li>• CBNAAT Machines</li> </ul>	As per ICMR recommendation and state guidelines. Total RT-PCR Sample till date 141309 Total positive sample till date 31682  Screening and testing as per ICMR guidelines  A per ICMR recommendation and state guidelines total 3 shift functional at HNB Base Teaching Hospital area also deputed 30 other places requirement and request by other departments	<b>VRDL Lab- 2500-3000 testing per day</b>  <b>MRU Lab- 1000-1500 testing per day</b>  <b>Antigen test-</b> capacity 200 test per day presently 30-35 test conducted per day  <b>Trunat Test.-</b> capacity 80-100 test per day presently 0-5 test conducted per day  <b>Testing of ILI / SARI Cases</b> – test related to ILS/SARI under ICMR project.  <b>Optimal Utilization of RAT Testing Strategy-</b> RAT test providing in college.	Optimal Utilization of Covid-19 testing Capacity 1000/day  Testing of ILI / SARI Cases Already plan for 24-hour lab services for covid diagnosis Manpower & reagents is on process.

		<p>a. Gene-Xpert: 01 b. TrueNat Machines: 02(Installed at Doon Hospital)</p> <p><b>5. Data as of 25.11.2021</b></p> <ul style="list-style-type: none"> <li>Total Samples tested till date <b>4,59,637</b></li> <li>Total No. of Positives reported till date <b>23,504.</b></li> <li>Overall positivity rate <b>5.11%</b> Total Positive sample on 1<sup>st</sup>Nov 2021 to 25<sup>th</sup> Nov 2021 - <b>19/13330</b></li> </ul> <p>Month wise data from Mar 2021 to till date</p> <table border="1"> <thead> <tr> <th>Month</th> <th>Total No of samples</th> <th>Total Positive</th> <th>Positivity rate</th> </tr> </thead> <tbody> <tr> <td>March</td> <td>16,788</td> <td>528</td> <td>3.14%</td> </tr> <tr> <td>April</td> <td>24,038</td> <td>5,694</td> <td>23.68%</td> </tr> <tr> <td>May</td> <td>25,780</td> <td>5,127</td> <td>19.88%</td> </tr> <tr> <td>June</td> <td>25,515</td> <td>336</td> <td>1.31%</td> </tr> <tr> <td>July</td> <td>25,252</td> <td>68</td> <td>0.26%</td> </tr> <tr> <td>Aug.</td> <td>33,314</td> <td>37</td> <td>0.11%</td> </tr> <tr> <td>Sept.</td> <td>33067</td> <td>25</td> <td>0.07</td> </tr> <tr> <td>OCT</td> <td>17431</td> <td>24</td> <td>0.13</td> </tr> <tr> <td>NOV till 25<sup>th</sup></td> <td>13330</td> <td>19</td> <td>0.14</td> </tr> <tr> <td><b>Total</b></td> <td><b>214515</b></td> <td><b>11858</b></td> <td><b>5.52%</b></td> </tr> </tbody> </table>	Month	Total No of samples	Total Positive	Positivity rate	March	16,788	528	3.14%	April	24,038	5,694	23.68%	May	25,780	5,127	19.88%	June	25,515	336	1.31%	July	25,252	68	0.26%	Aug.	33,314	37	0.11%	Sept.	33067	25	0.07	OCT	17431	24	0.13	NOV till 25 <sup>th</sup>	13330	19	0.14	<b>Total</b>	<b>214515</b>	<b>11858</b>	<b>5.52%</b>			
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12	Control room management	PRO Office(24x7), War Room(Dr Anurag Agarwal-Nodal Officer/Dr Narayanjeet Singh-Co-ordinator/Dr Nidhi Uniyal-Co-Nodal Officer.)	PRO Office(24x7), War Room(Dr Mohit saini-Nodal Officer/DrKS Bulota -Arjun singh Co-Nodal Officer.)	not concern with college	Functional of district control room established at base hospital																																												
13 & 14	Genome Sequence Testing in GDMC / Surveillance of International Travelers & WGS Testing.	<ul style="list-style-type: none"> <li>WGS started in GDMC from 21<sup>st</sup> November 2021.</li> <li>Total Samples Sequenced till date = 18 (Based on Initial RTPCR – CT Values)</li> <li>Number of sample successfully sequenced = 15</li> <li>Sequencing failed =03 Total number of Delta Variants = 06/15 (B 1.617.2) (03 From Dehradun, 02 From Haridwar &amp; 01 From Pauri Garhwal) Vaccination History – None 03/06 Required Hospitalization 100 Sample for Whole Genome Sequencing in process x100</li> </ul>	<ul style="list-style-type: none"> <li>Sample are sent to GDMC dehradun.</li> <li>As per ICMR and state guidelines.</li> </ul>	<p>Genome Sequence Testing in GDMC- This testing equipment facilities providing in under microbiology lab of MRU.</p> <p>Surveillance of International Travelers &amp; WGS Testing- not concern with college</p>	<p>Space is not available for expansion only one microbiologist is working at present.</p> <p>Surveillance of international travelers &amp; WGS testing by district health administration</p>																																												
15	Inter-sectoral	N/A	All sort of communication	All sort of	Inter sectoral																																												

	Co-ordination.		are done with all authorities of different departments (Police, PWD, Nagar Nigam etc) as per need for proper implications of proposal.	communication are done with district management and health department.	coordination (coordination with other department)
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