

Budget Paper

COVID CARE FUND Sambalpur, Odisha

Location: Sambalpur, Odisha, INDIA

Summary

The Vision Mission (TVM) has been working with Trilochan Netralaya (TN) since 2014. Over this period, we have sponsored and conducted thousands of free surgeries, and done much for the upliftment of eye-care in region surrounding Sambalpur. Now, with Sambalpur, the region, the country and the world at large at the throes of a pandemic, we wish to step up our support to provide Covid Care during this most critical period.

Purpose:

We probably don't have to explain why it is essential that we all stand up and be counted at this hour. All of us have in some way, directly or indirectly, been impacted by Covid-19. We wish to help by enabling these brave frontline workers to the maximum extent possible. As a starter, this project and budget paper seeks to focus on the following:

- Supporting Covid Care Centers with Laboratory Services for Optimal Covid Patient Care
- Help Assess and Manage Protocols in order to provide the best care possible under the circumstances

About The Vision Mission

The Vision Mission is a Non-Profit, Social Enterprise founded in Singapore in 2014, with the objective to eradicate blindness worldwide and bring high quality eye care to all those in need regardless of locale and socioeconomic status. The Vision Mission US and Vision Mission India were setup in 2018 to further this same cause. We seek to serve as a conduit enabling transnational collaboration of dedicated ophthalmic experts in providing free high quality eye care and surgery to patients in areas of need, with a view to eradicate treatable vision impairment and allow eye care access to all. We wish to set up and operate sustainable eye care programs focusing on treating cataracts in areas of need, in collaboration with local ophthalmologists.

Why Sambalpur? Why now?

Every 2nd person in Sambalpur, 3rd in Bargarh test Covid +ve

Times News Network

Bhubaneswar: Almost every second person in Sambalpur, who underwent a Covid test, was found to be positive. Besides, every third person undergoing the test in Bargarh, Kalahandi and Nuapada districts in the past 24 hours was found to have contracted Covid-19, the state's latest single-day infection count on Thursday shows.

Of the 677 persons who underwent the Covid test in Sambalpur, the results of 323 returned positive with a test positivity rate (percentage of samples returning positive) of 47.71%. Similarly, in Bargarh district, four out of every 10 samples returned positive. Of the 779 persons tested, 339 were found to be infected with a positivity rate of 43.3%. Surprisingly, the number of tests was less in

the two districts with the highest positivity rates compared to others. In Nuapada district, 420 of the 1,000 samples were found to be positive (42.0%). While 292 of the 930 samples (31.3%) were found to be positive in Kalahandi, 396 of the 1,453 samples (27.25%) were positive in Jharsuguda, 121 of the 586 samples

(20.64%) in Gajapati and 474 of the 2,353 samples (20.14%) in Sundargarh, among other districts with very high positivity rates.

Overall 6,566 tested positive from among the 44,064 samples with a test positivity rate (percentage of samples returning positive) of 14.9%. Jayant Panda, government's technical adviser on

Covid-19, said, "The double (B.1.617) variant, also called the Indian variant, of the virus is spreading fast and is the reason behind very high positivity rate. If one person of a family is found to be positive, all others are catching the infection. If one person in an office or even in a crowd is positive, others are also turning positive." He added that since the virus is spreading very fast, there are clusters where almost all are getting affected. However, every infected person is not falling ill and among those showing symptoms, around 5% are requiring hospitalization. People must minimise outdoor visits and when they have to move, they must wear masks, maintain social distance and personal hygiene. In case of the slightest symptom, they must undergo the necessary tests, he said.

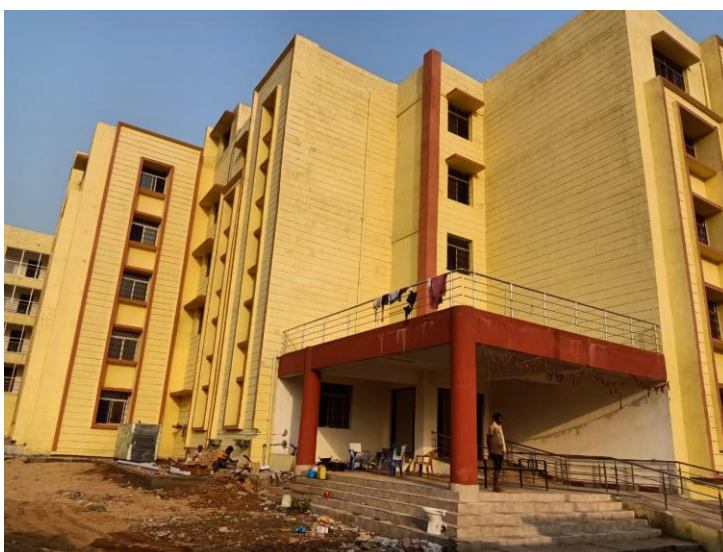
People wait for their turn to get vaccinated in Bhubaneswar

Supporting Covid Care Centers

with Laboratory Services for Optimal Covid Patient Care

The Vision Mission (TVM) is partnering with our long and trusted partner in Orissa, India - Trilochan Netralaya (TN). TVM will be supporting TN in its initiative to provide hospital care to moderately ill Covid positive cases so that mortality rate is reduced in them as well load of critically ill patients in ICU is reduced. This will be done via 2 Covid Care Centres (see pics below) to be setup in buildings in and around the town of Sambalpur:

- CCC Sambalpur, bed strength 600
- CCC Burla, bed strength 450



Funding Requirement

We need to raise S\$105,840.00 for this initiative. Details and cost breakdowns are provided in the following pages.

This being an ongoing crisis, we intend to monitor it closely, and on a day-to-day basis to respond to changing conditions on the ground for the better or worse, and to be able to amend and improve upon this paper as the need arises.



Supporting Covid Care Centers with Laboratory Services for Optimal Covid Patient Care

Covid Care Centers or CCC are set up with the aim of providing hospital care to moderately ill Covid positive cases so that mortality rate is reduced in them as well load of critically ill patients in ICU is reduced.

CCC aims to house all Covid positive cases who require medicine, oxygen and doctors supervision but not ICU level of care. Their oxygen saturation level is above 88 % and if that deteriorates, they will be shifted to nearby Covid hospital ICU.

Trilochan Netralaya Sambalpur aims to provide comprehensive care at CCC so that clinically the conditions of patients remain stable and gradually improves to a level so that they are discharged.

To make this happen, measuring blood parameters at the time of hospital admission, monitoring them in the interval of 24-48-72 hours depending on the patient's condition and administering medications appropriately will reduce overall mortality.

At the present scenario, blood tests and medications depending on blood tests reports is not happening in any CCC run by district administration in Odisha.

With the request of the district administration, Trilochan Netralaya has stepped into this initiative with the sole aim of containing the second wave pandemic and reducing Covid deaths.

BLOOD TESTS -

As blood parameters are very basic and critical in determining the disease process inside the body of the patient, daily monitoring of the blood parameters are essential in the appropriate treatment of all **Covid positive symptomatic patients.**

Trilochan Netralaya seeks to do all these tests at no cost to the patient from time to time and availability of test reports within 24 hours.

Following **BASELINE** blood tests will be done for all moderate and HIGH RISK COVID patients (COVID PATIENTS WITH COMORBIDITIES) at bedside which are basic requirement for Covid patient treatment -

- Fasting or Random Blood Sugar
- HbA1c Blood Sugar (for known diabetic patients)



- D DIMER - important and only indicator for anticoagulant therapy. Baseline level at the time of admission, repeated every 48 hours, if SPO2 declines
 - CRP - C Reactive Protein
 - LDH- Lactate Dehydrogenase
 - LFT - Liver Function Tests
 - Serum Ferritin
 - Renal function tests - Serum Creatinine, Blood Urea
 - Complete Blood Count (CBC)
- Cost - 1800/-**

List of **REPEAT** blood tests -

- Complete Blood Count ,CBC
 - D Dimer
 - C reactive Protein
 - LDH
 - Fasting / Random Blood sugar
- Cost - 1020/-**

Patient's Load Estimation -

Trilochan Netralaya seeks to provide this service at the two CCC run by Sambalpur District Administration, after getting request from the District Collector.

CCC Burla, bed strength 450

CCC Sambalpur, bed strength 600.

Total bed strength (CCC inside Sambalpur Municipality Corporation, SMC area) - 1050.

Total patients admission into CCC = 840 (assuming 80% bed occupancy at any point of time)

Average patient stay duration = 10 days

Approximate Patient load per month - $(840 \times 3) = 2520$

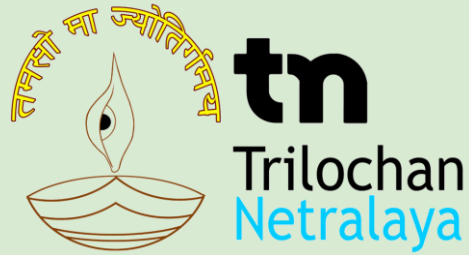
Approximate monthly Baseline blood tests number = 2520

Repeat blood tests number @50% - $(2520 \times 50\%) = 1260$

Expenses Associated -

These blood tests will require support of a pathology laboratory. The cost of the above tests will be approximately 3600/- at time of admission. Taking a patient turnover of 50% rate for repeat investigation, the cost for such tests would be approximately 2040/-. Details of blood tests prices are listed at the end of this document. Trilochan Netralaya is calculating the actual consumable cost as well as required man power cost at 50% of the listed price for this noble cause.

HR requirement for blood testing -



- Lab Technician - 3
- Lab Assistant - 4

For a CCC of 1050 bed strength and with 80% occupancy at any point of time,

- Baseline blood tests cost - Rs 45,36,000/- per month with Rs 1800/- as cost of the baseline tests per patient and 2520 patients.
- Repeat blood tests cost - Rs 12,85,200/- assuming 50% of the admitted patients (1260) will need a repeat test and cost of repeat blood tests @ Rs 1020/- per patient.
- **Total blood tests cost per month - Rs 58,21,200/- for both baseline and repeat tests.**

Outcome Objectives -

- 80% or more of CCC admission patients recover while in CCC itself without requiring referral to Covid hospitals or ICU admission
- Less than 20% of CCC admission patients get referred to Covid hospitals for ICU Care
- Reduction of death rate in referred patients limited to less than 20%