

# SAGA OF SANJEEVANI IN FIGHTING COVID -19

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**Abstract:** Sanjeevni hospital despite being in a remote area of District Sonbhadra, Uttar Pradesh acquired a good place in preventing Coronavirus disease 2019 (COVID-19) caused by severe acute respiratory syndrome corona virus 2 (SARS-CoV-2). Following all the preventive measures and from all the manual approaches like setting-up necessary infrastructure , distribution of masks, spreading awareness, proper medical check-ups to technical approaches like initializing online hospital management software for virtual doctor consultancy in order to provide minimal hospital visits to employees and patients, Sanjeevani hospital developed an organized strategy for fighting against corona virus disease.

**Keywords:** COVID-19, SARS-CoV-2, Influenza, Control, Prevention, Awareness.

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## I. INTRODUCTION

NTPC Limited (formerly known as National Thermal Power Corporation) is a Central Public Sector undertaking under the Ministry of Power, G.O.I. & is India's Largest Energy Conglomerate with presence in the entire power value chain.

Conceived way back in the year 1975 solely as a thermal power-producing company with the intention to accelerate the power development in the country, this organization has matured into a 61000+ M.W. Company in a span of four & half decades & has forayed into Hydro, Solar & gas based generation as well.

Recognizing its outstanding contribution to the overall development & growth of the country it was bestowed with the prestigious "MAHARATNA" status in the year 2010, one amongst the only four P.S.U. to be conferred with this Honour.

Singrauli Super thermal Power Station popularly known as N.T.P.C. Singrauli is located at Shakti Nagar, in Sonbhadra district of UP, 200 km from Varanasi. & was the First project of N.T.P.C. Conceived in the year 1975 & is affectionately referred to as the Mother plant of N.T.P.C. It has an installed capacity of 2000 M.W. & is amongst the best-operated power stations of the country in terms of Plant Load Factor. The employees, their families & associates, are housed in a nearby township & to cater to the health requirements of all of them including the neighbouring community is a 100 bedded Hospital Called "SANJEEVANI".

In the next few pages, we'll share with you the initiatives & experiences of Sanjeevani in handling the situation arising out of this pandemic from this remotely located hospital.

Since an ample amount of contract workers manoeuvre in the N.T.P.C. area, hence, the hazard of corona spread could have prospected at a higher rate. So, following an allocation, "Prevention is better than cure" Sanjeevni hospital with 'Samarpan' N.T.P.C. Singrauli's own N.G.O. headed by C.M.O. placed an arrangement for safeguarding health of all the workers and made them aware of all the safety measures and precautions.

## II. HIGHLIGHTS

- ❖ Sanjeevani hospital organised medical check-ups for people working in NTPC area with proper social distancing measures.
- ❖ NGO Samarpan distributed about 500 masks at township gates.
- ❖ Corporate IT cell of Sanjeevani hospital developed an online hospital management software in order to provide virtual doctor consultancy for covid-19.

## III. PREVENTIVE MEASURES

Predominantly, Sanjeevani hospital, as per government guidelines, developed isolation wards of 10 beds each, for quarantine purposes and specialized respiratory or flu clinic for management of all cough and cold cases.

**Table 1: Abbreviations Used**

N.T.P.C	National Thermal Power Corporation
C.O.V.I.D -19	Corona Virus Disease - 2019
S.O.P.	Standard Operating Procedure
I.T.	Information Technology
SARS-CoV-2	Severe Acute Respiratory Syndrome Corona virus 2
G.O.I.	Government Of India
M.W.	Mega-Watt
P.S.U.	Public Sector Unit
K.M.	Knowledge Management
N.G.O.	Non-Government Organisation
C.M.O.	Chief Medical Officer

Moreover, we organized an awareness session for patients, contract workers, health workers, and biomedical waste disposal staff. Also, we displayed videos all over plant, offices and hospitals and spread awareness across the township to avert them from the pandemic and even uploaded PPT on the protective measures of corona for employees on the 'knowledge management (K.M.) portal'.

Further, we took medical check-ups of about 100-125 workers in 2 days and more, as days passed by, in a spacious training centre far from the main township and following other social distancing measures like allotting different doors for entry and exit. The tests included some general tests like-

- Thermal Screening
- Eye-testing
- Blood pressure
- Pulse
- SPO2 test, etc.

### **A. Distribution of PPE**

Doctors and health workers were considered a charioteer in this warfare, and their protection was also essential. Hence, we procured P.P.E. for all the health workers and doctors and provided H.C.Q. (hydroxychloroquine) to the whole staff for preventive dosing.

### **B. Precautions and SOP Development**

We provided entry points of the hospital, O.P.D., and emergency with washbasins for proper sanitization and distributed homoeopathy medicines for immunity boosting. We at Singrauli developed various S.O.P.s related to patient management during C.O.V.I.D. 19, hospital management, office management, township management etc. We too received S.O.P.s from Corporate which we ardently followed.

**C. Virtual Doctor Consultancy and HR initiatives**

To minimize employee patients' visits to hospital our Corporate I.T. has developed online hospital management software which can be accessed from home or office, thereby enabling patients to take virtual consultation from doctors. Our H.R. department provided comprehensive management and tremendous support by forwarding sanitizers and essential things to other departments and even 'Samarpan' N.G.O. headed by our C.M.O. distributed about 500 masks at township gates.

**D. Some Other Preventive Measures**

Since some people, due to the fear of humiliation, don't let reality get known to others. Hence, we took a written agreement letter from them that neither they ported city from two months nor have any sign of corona.

Efficacious guidance and forethought were provided by our general managers and head of the project. Our doctors and staff received required training on various aspects of Corona management and enriched themselves with the knowledge to deal with COVID-19 suspects at initial stages.

**Table 2: CORONA VIRUS DISEASE- SPECIAL PROJECTS**

S.NO	AREA
1	AWARENESS TO -CONTRACT WORKERS AND STAFF OF OPD
2	KM PORTAL-PPT ON CORONA UPLOADED FOR EMPLOYEES
3	AWARENESS TO OPD PATIENTS AWARENESS IN SAFETY DEPT BY OUR DOCTORS-PLANT CONTRACT WORKERS
5	FLU CLINIC STARTED
6	TV IN OPD BLOCKS-AWARENESS
7	THERMAL SCREENING AT HOSPITAL GATES
8	HCQ (HYDROXY CHLOROQUINE) PROVIDED TO ALL STAFF FOR PREVENTIVE DOSING
9	PROVIDING SANITIZERS TO HR FOR OTHER DEPARTMENTS
10	ONLINE HMS REGISTRATION AND OPD SLIP GENERATION BY EMPLOYEES FROM HOME SO THAT VISIT TO HOSPITALS CAN BE MINIMISED.
11	NECESSARY INFRASTRUCTURE READY
12	HOME QUARANTINE LIST PREPARED AND FOLLOWED ON DAY TO DAY BASIS
13	CORONA CERTIFICATE COURSE BY HARVARD MEDICAL SCHOOL DONE BY DOCTORS.
14	MASK DISTRIBUTION-500 AT TOWNSHIP GATE TO ADJOINING POPULATION
15	TRAINING TO ALL STAFF ON CORONA AWARENESS AND PATIENT HANDLING
16	VENTILATOR TRAINING TO ALL DOCTORS
17	SOP MADE FOR CONTRACT WORKERS FOR OVERHAUL AND CONSTRUCTION.
18	WASH BASINS AT ENTRY POINTS OF HOSPITAL OPD AND EMERGENCY.
19	PME(preventive medical examination) FOR OVERHAUL AS PER SOP
20	DISTRIBUTION OF HOMEOPATHY MEDICINE FOR IMMUNITY BOOSTING
21	CONTINGENCY PLAN ( under guidance of corporate medical cell) DEVELOPED FOR CRISIS MANAGEMENT IN CASE OF REQUIREMENT IN OTHER NTPC HOSPITALS; WE WILL BE SENDING OUR TEAM FOR HELP.

#### IV. CONCLUSION

Therefore, Sanjeevani hospital built a systematic and coherent strategy for prevention from the pandemic but still while considering if we missed something, deputed health workers at the hospital, and township gates for thermal screening.

Also, since this was the team fight against the global pandemic, so we already developed a contingency plan for crisis management. In case of requirement in other N.T.P.C. hospitals, we'll be sending our teams.

While Sanjeevani being a non-COVID hospital, our Corporate medical cell produced immense efforts in liaising with corporate hospitals in big cities and our local management in liaison with district administration for management of COVID-19 confirmed patients with the constant support of our local town administration department, I.T. department, operations department, and our medical team.

Hence, even despite located in remote area and constraint resources Sanjeevani hospital constituted a systematic approach to evade everyone from this pandemic by following adequate steps and proper support and guidance in the right direction. All the activities were undertaken & executed under the overall leadership of Head of the station, Sh. Debasish Chattopadhyay.

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