

WINNING THE COVID 19 CHALLENGE



THE LOCKDOWN PERFORMANCE NOTES



SOUTH CENTRAL RAILWAY

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FOREWORD

The COVID-19 pandemic has presented a huge challenge to the Nation, testing its capabilities to the core. An unprecedented country-wide lockdown from 24th March, 2020, including stoppage of all passenger carrying train services as part of the strategy to contain the virulent pandemic. Later to this, important express services have commenced as special trains, with plans to gradually upscale operations to the normal.

Indian Railways, the core transport service provider to the Nation has been in the forefront in waging the battle to combat the virus, doing its best to keep the supply chain going so as to ensure that citizens do not get inconvenienced. Acting on cue, South Central Railway drew a multipronged plan of action with emphasis on meeting national needs, at the same time utilizing the lockdown period to also attend to core infrastructure and other works.

I am proud of the fact that the immensely motivated officers and staff of SCR rose to the occasion, keeping aside their own priorities, to keep the rail wheels moving. The Zone was amongst the first on Indian Railways to run exclusive parcel special trains to transport essentials to various cities, including the "Doodh Duronto" specials to carry milk to the National capital, New Delhi from Renigunta. Running of goods trains has continued uninterrupted. SCR was also the first to introduce "Shramik Special Trains" to transport migrant workers to their native destinations. Several Special Trains are being run to a fixed schedule connecting important cities. On the flip side, we have capitalised the break time to undertake a host of major infrastructure strengthening and maintenance works which would not have been easy during normal train movements. SCR has also gone beyond the call of duty to reach out to the needy sections of society in terms of distributing food, essential commodities, financial aid etc., The belief centered around the fact that challenges come hard, but also hold potential to unlock your true strength.

Team SCR is proud to put together a compilation of excellent work done by the SCR rail force during these critical times who have time and again risen to every challenge with an impeccable performance. The entire success is an outcome of positive thinking and hard work, which can always make the impossible, possible.

(GAJANAN MALLIYA)
General Manager
South Central Railway

SCR Started
1ST
SHRAMIK
SPECIAL
OVER INDIAN RAILWAYS

THE ZONE
is the First on
INDIAN RAILWAYS
to start
Shramik Special
from Lingampalli
to Hatia
on 1st May, 2020



SHRAMIK SPECIALS

The unprecedented lockdown across the Nation in the wake of threat from pandemic COVID-19 Virus resulted in people getting stranded away from their homes and native places, in particular the migrant workers.

Indian Railways took up the challenge to tranship migrant workers and their families home from places of their work, throughout the country. Always alert to take the lead towards any societal cause, South Central Railway rose to the occasion and ran the first "Shramik Special Train" in the country from Lingampalli Railway Station in the western suburbs of Hyderabad to Hatia, Jharkhand on 1st May, 2020, incidentally coinciding with the International Workers Day too.

The widely acknowledged initiative moved ahead with full steam and in the span of two months, 243 Shramik Special Trains have been operated from various stations on SCR, covering Telangana, Andhra Pradesh and Maharashtra to various North & North West bound destinations across the country. Utmost priority has been accorded to aspects concerning safety and security of Shramik passengers travelling by these special trains, so as to ensure they reach home comfortably.

A RECORD
43
SHRAMIK
Special Trains
Roll out from the
Zone within a
span of 12 hours

A record number of 43 Shramik Special trains were run within a span of 12 hours from various railway stations on SCR's jurisdiction towards various destinations in the states of Central and North India. The big scale operation was undertaken between 04.00 pm of 23rd May, 2020 and the early hours of 24th May, 2020. Out of 43 Shramik Specials originated from the Zone, 40 Shramik Special trains have run from various railway stations in Telangana, 2 from Andhra Pradesh & 1 from Maharashtra State. The destinations of these Shramik Special Trains include 11 in Bihar, 06 in Jharkhand, 09 in Uttar Pradesh, 12 in Odisha and 05 in Other States.

STATE - WISE NUMBER OF ORIGINATING TRAINS & PASSENGERS

243
TOTAL SHRAMIK
SPECIALS RUN
TILL 30th JUNE 2020



TELANGANA
151
TRAINS

1,87,303
PASSENGERS

ANDHRA
PRADESH
74
TRAINS

89,971
PASSENGERS

MAHARASHTRA
18
TRAINS

23,432
PASSENGERS

SHRAMIK SPECIAL PROTOCOL

- * State Governments have been tasked with identifying needy shramik workers who wanted to travel back to their native places. Railways held the onus to take charge of the shramik travellers from the moment they enter into the railway stations, all through the journey till destinations.
- * Railway stations and coaches were completely sanitized before being offered for transporting the passengers.
- * At stations, Railway Officials along with State Government authorities shall be conducting thermal screening of passengers to ensure no covid symptomatic person undertakes journey. Masks are mandatory before boarding the trains and during journey.
- * While boarding, social distancing is to be maintained by the travellers who are also counseled about the pandemic virus and precautions needed to stay safe.
- * At originating station all the passengers are to be supplied with food and water in coordination with state government and local NGOs.
- * Enroute, food and water to be supplied by IRCTC and Railways, involving NGOs wherever possible.
- * Passengers travelling by these Shramik specials are to be rendered medical assistance if required during the course of journey, wherever possible.
- * At destination, passengers need to mandatorily follow the health protocol laid down by the concerned State Governments.



STATE - WISE ORIGINATING STATIONS ON SCR

From Telangana

Bibi Nagar, Bolarum, Cherlapalli, Ghatkesar, Hyderabad, Kacheguda, Karimnagar, Kazipet, Lingampalli, Mahabubnagar, Medchal, Nagulapalli, Ramagundam, Secunderabad

14
STATIONS

From Andhra Pradesh

Anantapur, Chittoor, Kadapa, Gudur, Kovvuru, Kurnool City, Mangalagiri, Tirupati, Namburu Narsapur, Nellore, Nidadavolu, Ongole, Rajahmundry, Rayanapadu

15
STATIONS

From Maharashtra

Aurangabad
Jalna
Nanded

03
STATIONS



SHRAMIK SPECIALS //

SUPPLY OF FOOD BY SHRAMIK SPECIALS

South Central Railway in coordination with IRCTC and from its own resources, has served food and water to migrant workers travelling by Shramik Special trains which ran on SCR. Till 30th June 2020, catering service has been arranged around 1200 times for 761 shramik special trains, serving Breakfast, Lunch, Dinner etc, several times serving more than one of the meals by the trains, as per the journey timings on the zone.

Various NGOs have also come forward to lend a helping hand in terms of distributing meals, snacks, fruits, water etc thereby supplementing the efforts of the IRCTC & Railways in this direction. These voluntary helping hands have served around 1.15 lakh meals in 81 Shramik Special Trains at 16 important stations i.e., Secunderabad, Warangal, Rajahmundry, Vijayawada, Rayanapadu, Nellore, Gudur, Renigunta, Guntakal, Raichur, Aurangabad, Parbhani, Nanded, Nizamabad, Kurnool City & Guntur on the Zone. Care was taken to supply food to suit the eating habits of passengers who come from different regions.

Railway officials at various stations, have in their personal capacity have also come forward to serve food items, snacks, water bottles and milk to children etc. Till 30th June, 2020, 32 shramik special trains were catered by the rail personnel serving 35,637 meals at 25 stations.

Division Wise Stations Where Food Supplied

SECUNDERABAD DIVISION	Vikarabad, Secunderabad, Kazipet, Warangal, Lingampalli, Chevella, Ghatkesar, Nagulapalli
HYDERABAD DIVISION	Kurnool City, Mahbubnagar, Bolarum, Nizamabad
VIJAYAWADA DIVISION	Tuni, Samalkot, Rajahmundry, Vijayawada, Ongole, Gudur, Rayanapadu, Nellore
GUNTUR DIVISION	Guntur, Diguvametta
GUNTAKAL DIVISION	Guntakal, Renigunta, Dharmavaram, Kadapa, Gooty, Raichur, Dhane, Chittoor
NANDED DIVISION	Aurangabad, Purna, H.S.Nanded, Akola, Parbhani

DESTINATION WISE NUMBER OF ORIGINATING SHRAMIK SPECIAL TRAINS & PASSENGERS HANDLED



ASSAM

01

968

BIHAR

63

81,997

CHATTISGARH

04

4,949



3,13,534

TOTAL PASSENGERS
TRANSPORTED THROUGH
SHRAMIK SPECIALS
TILL 30th JUNE 2020



SWIFT ACTION IN THE WAKE OF GAS TRAGEDY NEAR VIZAG

SCR's basket of challenges was compounded when there was a major gas leak tragedy near Vizag on 07th May, 2020 which claimed several lives. The zone swiftly stopped movement of Shramik Special trains towards Howrah & Guwahati, running through Vizag for over 48 hours, as a pre-emptive measure to maintain passenger safety. The Zone undertook timely action to ensure smooth rerouting of the special trains with shortest possible delay, duly making arrangements for water and catering throughout. Crew members who were involved in operating of Shramik special trains were evacuated from their rest houses at Simhachalam North, so as to ensure their safe health and uninterrupted duties.



From May 01, 2020 to June 30, 2020

SHRAMIK SPECIAL TRAINS RUN	MEALS DISTRIBUTED	ORIGINATING SHRAMIK SPECIAL TRAINS	PASSING THROUGH SHRAMIK SPECIAL TRAINS
1004	19,86,651	243	761
TOTAL CATERING SERVICES	IRCTC	STATE GOVERNMENT	RAILWAYS
1415	1159	243	13



JAMMU & KASHMIR

01

983

JHARKHAND

25

27,338

MADHYA PRADESH

13

13,216

MAHARASHTRA

04

3,278

MANIPUR

04

5,517

MIZORAM

01

1,143



ORISSA

48

77,582

RAJASTHAN

10

9,847

TRIPURA

01

975

UTTAR PRADESH

51

61,517

UTTARAKHAND

01

1,180

WEST BENGAL

14

20,156





SPECIAL TRAINS

SPECIAL TRAIN SERVICES

As part of partial restoration of train services post relaxation of COVID-19 Lockdown, Indian Railways introduced 15 pairs of special train services from 12th May and followed it up with 100 pairs of special train services commencing from 01st June 2020.

Accordingly, SCR is handling 10 pairs of originating trains and 7 pairs of passing through special trains catering to around 25,000 passengers each day, with 64 major Railway stations being provided with stoppages.

Elaborate arrangements have been made for the safety of passengers and staff as per the COVID-19 protocol norms issued by Government of India.

Railway stations and coaches are cleaned and disinfected for safe travel of the passengers. Separate entry and exit gates nominated to handle the incoming and outgoing passengers at the Railway Stations. To ensure only those passengers who hold confirmed reservations and are asymptomatic enter the station premises to travel, comprehensive checking is undertaken in terms of Thermal Screening, Contactless Sanitisation, social distance marking and contactless ticket checking. Additionally, Sanitizers are provided inside the trains too. Passengers, alighting at various stations on SCR, will have to adhere to protocol norms prescribed by the concerned State governments.

ORIGINATING
TRAINS



10
PAIRS

PASSING THROUGH
TRAINS



07
PAIRS

PASSENGERS
PER DAY



AROUND
25000

STOPPAGES
PROVIDED AT



64
STATIONS

INNOVATIVE PROTOCOL PROCEDURE

Innovative protocol procedures have been implemented at most important Railway stations on Zone for hassle-free and efficient handling of passengers before boarding the trains.

- * Rail personnel on duty at the time of train movement are fully equipped with safety gear including facial shields, masks and gloves. Availability of PPEs is also ensured, to meet any exigencies.
- * Perfectly laid steel chain barricades to maintain lanes, footprint marks for social distancing are in place
- * Automatic Mist Hand sanitizing machines have been provided at entrances to enable passengers undergo sanitisation.
- * Eliminating manual interference in temperature screening and ticket checking altogether, a system is in place wherein passengers will show their tickets before the camera for verification by ticket checking staff on display monitors inside a cubicle, besides body temperatures of each passenger being automatically checked by thermal scanners.
- * The identification and checking process is totally recorded on camera, while the passengers themselves can view the live status.



OPENING OF RESERVATION COUNTERS

RESERVATION COUNTERS



OPENED AT
MORE THAN

200

LOCATIONS ACROSS THE ZONE

VIJAYAWADA
DIVISION



49

SECUNDERABAD
DIVISION



46

GUNTAKAL
DIVISION



46

GUNTUR
DIVISION



23

NANDED
DIVISION



21

HYDERABAD
DIVISION



19

- * In order to normalise ticketing services for the benefit of rail users, Reservations counters have been opened at more than 200 locations across the Zone. These counters will issue reservation tickets for the special trains on run and also disburse refund for tickets purchased at the counters for trains cancelled.



//PARCEL SERVICES//

PARCEL SERVICES

The outbreak of Covid-19 pandemic resulted in a Nation-wide lockdown, impacting supply of essential commodities. SCR came up with plans to run time-tabled Special Parcel Services from stations as Secunderabad / Hyderabad / Kacheguda to different destinations like Kakinada, Renigunta, Howrah, Nizamuddin, Mumbai, Amritsar etc., to balance the supply chain and serve National interests. Apart from this, the Zone has operated several parcel cargo express from Vijayawada, Renigunta, Guntakal etc. to various destinations across the country. The commodities include milk, medicines, fruits, fish, dry fish, eggs, lemon, ghee etc. 25,822 tonnes of essential commodities were transported by the Zone through Parcel service during the lockdown period till June 2020.

PARCEL LOADING

- 204 RAKES DISPATCHED
- 313 NO. OF SLRS LOADED
- 624 NO. OF PARCEL VANS LOADED
- 14492 TOTAL LOADING IN TONNES

NEW STATION OPENED FOR PARCEL TRAFFIC

Medchal Railway station in the vicinity of Hyderabad has been notified for the first time to handle parcel traffic, facilitating transportation of essential commodities during the lockdown period. 92 tonnes of milk products and 80 tonnes of courier goods were handled at the station. 61 tonnes of college/school study material was sent to Kolkata, HazratNizamuddin and New Jalpaiguri.



DOODH DURONTO SPECIAL TRAINS

Prior to the COVID-19 Lockdown, milk was regularly being transported from Renigunta on the Zone to the national capital Delhi, by attaching milk tankers to scheduled passenger carrying trains. However, cancellation of passenger train services put a brake to the same for some time, until SCR came up with the concept of "Doodh Duronto" special trains, fully comprising of milk tankers every alternate day from Renigunta to New Delhi. This initiative enabled meet the essential needs of New Delhi. During the Lockdown period till June 2020, around more than **1 Crore** Litres of milk has been transported by these special trains.

MILK LOADING

- 44 RAKES DISPATCHED
- 275 NO. OF MILK TANKERS LOADED
- 11330 TOTAL LOADING IN TONNES

NEW PARCEL DESTINATION

For the First time, weekly Parcel Express with 7 Parcel vans (VPU) are being loaded and dispatched to New Guwahati Goods Shed from Kacheguda Railway Station.

ZONE STOOD **3rd** in transporting essential commodities through parcel services during the lockdown

POSITION OVER
INDIAN RAILWAYS

ESSENTIAL
COMMODITIES
TRANSPORTED
25822 TONNES
(APR - JUN 2020)

MILK



11330.4
TONNES

FRUITS



1012.6
TONNES

MEDICINES



930
TONNES

PADDY SEEDS



77.5
TONNES

FISH & DRY FISH



5161.5
TONNES

EGGS



996
TONNES

LEMON



575
TONNES

GHEE



195.1
TONNES

OTHER COMMODITIES

5544
TONNES



//FREIGHT TRAFFIC//

FREIGHT OPERATIONS

SCR has been in the forefront to keep the freight supply chain going uninterrupted during the lockdown, so that the national and economic priorities are not hampered. Freight services continued to run for transporting food grains, coal, cement, petroleum products, fertilizers etc., to various parts of the country.

FOOD GRAINS LOADING

The focus for the Zone through these hard Lockdown times, has been to ensure transportation of essential food grains, so that the kitchens do not run short of basic family needs anytime. During April to June 2020, SCR has loaded 2.79 Million Tonnes of food grains, a staggering increase of 173% over the same months in the previous year. This has been possible on account of the close coordination between Railway officials, Food Corporation of India and various State governments.

CREW ROUND TRIPS

On an average 60% of crew have returned to Headquarters with out touching the running room during lock down period. This has benefitted loco-pilots immensely as they can reach home faster and without having to spend time at outstation running room.



JAI KISAN SPECIALS

SCR has introduced a unique concept of running "Jai Kisan" Special freight trains so as to ensure speedy delivery of food-grains to different parts of the country. Under this concept, two freight trains loaded from two different destinations are clubbed at one nearest junction and moved further as a single train till the common junction point of the destination stations, duly taking advantage of path availability on account of curtailment to passenger carrying train services. The Zone has run 42 Jai Kisan Specials during April & May 2020 to different destinations on Southern, Central and East Coast Railways.

NEW TRAFFIC CAPTURED

- * Industrial Salt loading from Kakinada Sea Ports Ltd.
- * Rice loading from Sri Venkateshwara Warehousing, Kaukuntla and M/s. Lakshmi Narasimhaswamy Siding, Nagireddipalli.
- * Pulses loading from Kadapa
- * Dry Chillies loading from Tadepalligudem and Reddipalem to Bangladesh
- * Turmeric loading from Nizamabad to Bangladesh.
- * Onion Loading from Nagarsole to Bangladesh

A Total of 29 Rakes were loaded with a revenue of Rs. 5.36 Crores

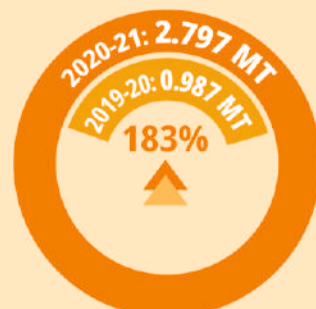
OPERATION OF NEW FREIGHT TERMINALS

- * M/s Sri Lakshmi Venkateshwara Warehousing and PFT Pvt. Ltd. at Kaukuntla has started its operations by loading its first rake of food grains to Erode, Tamil Nadu.
- * M/s Lakshmi Narsimha Infra Pvt. Ltd. at Nagireddipalli has started its operations by loading its first rake of food grains to Arakkonam, Tamil Nadu.

FOOD GRAINS TRANSPORTED

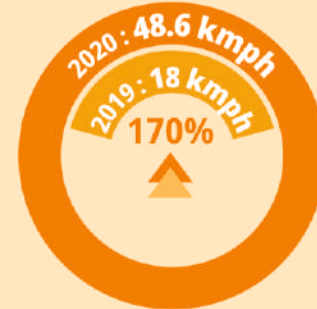


No. of Rakes



Weight in Million Tonnes

OPERATIONAL EFFICIENCY



Average Speed of Freight Trains

LOADING BEYOND COUNTRY BORDERS - TO BANGLADESH RAILWAYS





RAKE MAINTENANCE

MAINTENANCE OF RAKES FOR SPECIAL TRAINS / SHRAMIK SPECIALS

- * SCR has been the hub for maintenance of Special trains heading from various locations on its network towards Mumbai CSMT, Howrah, Amritsar, Danapur, Guntur, Visakhapatnam, Tirupati, H.Nizamuddin and New Delhi.
- * Special attention has been given for 175 Foreign Railway Shramik Special trains Passing through the Zone.
- * On Board House Keeping Staff (OBHS) have been deputed for on board cleanliness of Special trains.
- * The OBHS staff are supplied with PPE Kits, Sanitisers and masks for their personal safety.
- * Sanitizer and Liquid soap containers have been provided at Doorway areas and near wash basins for usage of travelling public
- * Clean Train Station (CTS) facility is made available at four stations over the Zone viz., Secunderabad, Guntakal, Vijayawada and Renigunta to ensure cleanliness of Shramik / special trains.
- * Spraying of diluted sodium hypo chloride inside and outside of coaches done before and after maintenance
- * Regular Sanitisation of rakes and Work Area has been done.
- * Disinfection of Pit lines done before and after departure of the trains
- * Awareness Posters displayed at prominent places regarding COVID precautions to be followed by staff and rail users.
- * Display of COVID-19 precautions on LED scrolling boards at work places in vernacular languages

SAFEGUARDING OF EMPTY RAKES

TOTAL EMPTY RAKES SAFEGUARDED

315

RPF POSTS/ OUTPOSTS

68

WAYSIDE STATIONS

46

EMPTY RAKES

244

EMPTY RAKES

71

ESCORTING OF TRAINS

NO. OF TRAINS

2894

AVERAGE PER DAY
94



MAINTENANCE OF QUARANTINE RAKES

- * Power supply arrangements done for 110 V charging of Quarantine coaches.
- * Regular Voltage checking done for stable rakes.
- * Extra charging arrangements has been arranged for quarantine specials.
- * Over hauling of battery charges and maintenance of battery charging terminals and pre cooling points.
- * Additional Lighting arrangements were done in yards where the special & General rakes are stabled to avoid thefts.

MANAGEMENT OF STABLED RAKES AND LOCOMOTIVES

- * The stabled rakes at out stations are provided charging for low voltage coaches by duly shifting 110V battery chargers from Train Lighting primary maintenance depots.
- * Maintenance of batteries for both AC & Non AC coaches while stabling to keep in readiness for utilisation
- * Battery MCBs are being switched off and checking of battery voltage regularly
- * Batteries being charged by energizing the locos for 2-3 hours every alternate day
- * checking of leakages of lubricants & Transformer oil
- * Safety items of Electric locomotives are being checked regularly

MAINTENANCE OF FREIGHT RAKES

- * Validity of close circuit rakes of BCN/BCNHL is extended to run all over Indian Railways instead of specific routes/sections.
- * Premium rakes are given extended validity of 12+8 days instead of 12+3 days.
- * Examination of Freight trains for carrying essential goods conducted at an average of 26 Rakes/day

MAINTENANCE OF RAKES

BRAKE VANS DISINFECTED

21941

MAINTENANCE OF MILK TANKERS

366

PARCEL TRAINS EXAMINED

271

SPECIAL TRAINS MAINTAINANCE

243

SHRAMIK SPECIALS WITH SCR COACHES

110



ISOLATION COACHES

QUARANTINE / ISOLATION COACHES

SCR was all geared up to act on the advice of the Ministry of Railways to convert rail coaches into Quarantine/Isolation Coaches so as to stay in preparedness for any Quarantine / Isolation requirements. In a swift action in compliance with the directives, SCR has converted 486 Non-AC sleeper class coaches over the Zone into Quarantine / Isolation Coaches. The Workshops / Depots across the Zone have completed the conversion works on a massive scale in shortest possible time, signifying the dedication and commitment of SCR's workforce to handle emergent times. The coaches are stationed at various locations all over the network to meet any exigency.



THE MODIFICATIONS INCLUDE

- * 2 Plastic curtains provided transversely so that the entry and exit to the entire cabin is screened off.
- * 2 Nos of Oxygen cylinders can be accommodated on the side berth of the cabin.
- * All the 9 cabins middle berths are removed along with the middle berth chain.
- * Provision of 02 No's of Stainless-steel Bottle holders are provided for each berth.
- * Provision of 02 No's, 03 peg coat hooks for each cabin.
- * Mosquito net provided for each window to avoid mosquito's entry inside and proper ventilation.
- * Each cabin provided with 3 colour dustbins with foot operated lids with biodegradable disposal garbage bags. All charging points for laptop and mobiles are made functional.
- * In all the cabins, 3 sockets of 5-amp capacity with switch provided to meet the power supply needs.
- * Modification in Toilet Portion: There are 4 toilets in each coach, out of which one Indian style Toilet is converted to Bathroom by removing the toilet pan. The bathroom floor is provided with PVC sheet, one hand shower and additional tap with lift type handle at proper height. In addition, Bucket, Mug, Soap dispenser and stool are also provided.



486

COACHES

CONVERTED AS
QUARANTINE / ISOLATION
COACHES



SECUNDERABAD
DIVISION

120
COACHES

HYDERABAD
DIVISION

40
COACHES

VIJAYAWADA
DIVISION

50
COACHES

GUNTAKAL
DIVISION

61
COACHES

NANDED
DIVISION

30
COACHES

GUNTUR
DIVISION

25
COACHES

LALLAGUDA
WORKSHOP

76
COACHES

TIRUPATI
WORKSHOP

84
COACHES



ISOLATION WARDS

ISOLATION/ QUARANTINE WARDS

SCR's medical wing which comprises of 5 major Hospitals and 44 health units spread over the Zone has been battle ready to handle the situation arising on account of the Covid-19 pandemic. The entire department has swung into action to combat the virus and render whatever medical assistance required.

In addition, the Railway establishments such as Railway Institutes, Schools, Colleges and Function halls were converted as quarantine centres to handle cases related to Covid-19. Accordingly, a total of 1017 quarantine beds were arranged on the Zone.

ISOLATION CUM COVID WARDS SETUP AT RAILWAY HOSPITALS

142

CENTRAL HOSPITAL
LALLAGUDA

100

RAILWAY HOSPITAL
VIJAYAWADA



42

RAILWAY HOSPITAL
GUNTAKAL

1017 BEDS
CONVERTED AS
QUARANTINE / ISOLATION

SECUNDERABAD
DIVISION

172
BEDS

HYDERABAD
DIVISION

147
BEDS

STATE WISE BREAKUP OF QUARANTINE BEDS



TELANGANA

11 LOCATIONS



Vikarabad	-	10
Ramagundam	-	20
Bellampalli	-	30
Bhadrachalam	-	10
Dornakal	-	20
Kazipet (Gen.)	-	54
Kazipet (Dsl.)	-	28
Moula Ali	-	30
RJC Tarnaka	-	87
Rail Kalyan, Mettuguda	-	30
Nalgonda	-	10
TOTAL	-	329

ANDHRA PRADESH

(SCR Jurisdiction)

21 LOCATIONS



Rajahmundry	-	50	Rail Mahal & RPF Barrack, Guntur	-	127
Kakinada	-	19	Guntakal	-	40
Eluru	-	10	Gooty	-	16
Tenali	-	06	Kadapa	-	15
Gudur	-	09	Nandalur	-	13
Bitragunta	-	16	Renigunta	-	45
Bhimavaram	-	08	Pakala	-	25
STPM (BZA)	-	31	Dhone	-	15
Rayanapadu Workshop	-	20	Tirupati	-	20
Nandyal	-	16	CRS/Tirupati	-	20
Donakonda	-	12			
TOTAL	-	533			

MAHARASHTRA

(SCR Jurisdiction)



03 LOCATIONS

Jalna	-	20
Purna	-	40
Nanded	-	70
TOTAL	-	130

KARNATAKA

(SCR Jurisdiction)



01 LOCATION

Raichur	-	25
TOTAL	-	25

VIJAYAWADA
DIVISION

169
BEDS

GUNTAKAL
DIVISION

234
BEDS

GUNTUR
DIVISION

165
BEDS

NANDED
DIVISION

130
BEDS



HEALTH MEASURES

PREPAREDNESS OF SCR MEDICAL WING

SCR's medical wing with 5 major hospitals and 44 health units spread over the Zone geared itself to handle the outbreak of Covid-19 pandemic, with full preparedness. The team of doctors, nurses and paramedical staff have shown the resolve to render medical assistance anytime, in this hour of need. The plan of action includes:

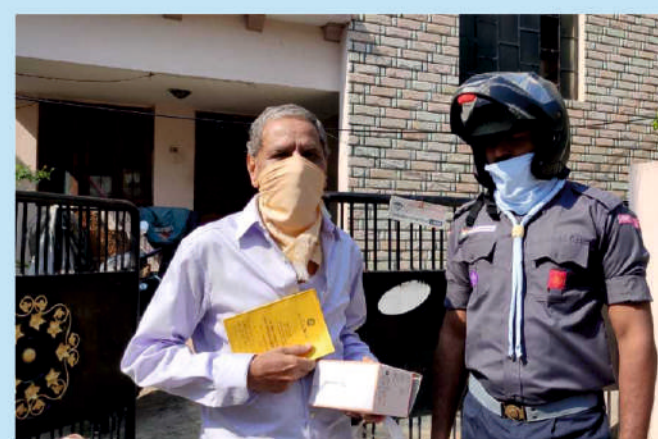
- * All Railway Doctors are briefed and trained on the protocol procedure for treating the pandemic Covid 19 patients through video conferencing by Ministry of Health, Govt of India in coordination with Railway Board.
- * Further, all the Para Medical staff like Nurses, Lab Technician, Pharmacists, Nursing Assistants, Hospital Attendants of the Zone are properly trained and counselled on the precautions and steps to be taken while dealing with Covid -19 patients.
- * Quarantine facilities were developed with 844 beds, across the Zone covering all major cities and towns.
- * Separate isolation cum Covid wards setup at Railway Hospitals at Secunderabad (Lallaguda), Vijayawada and Guntakal.

24X7 FEVER CLINICS

24x7 Fever Clinics were setup at major Railway Hospitals located at divisional Headquarters all over the Zone for railway employees and beneficiaries to access for diagnosis and treatment in case of any symptoms for different ailments, requiring outpatient attention. The newly set up fever clinics are being run round the clock with Doctors, Nursing staff, Pharmacists and Health care workers in all three shifts with proper PPE (Personal Protective Equipment).

TELECONSULTATION & VIDEO CONSULTATION

On Vijayawada division, an innovative Tele-consultation & video-consultation facility through Google duo was initiated for enabling staff to avoid their physical presence at Railway hospitals for OPD services. Employees have been provided the facility of consulting duty doctors through Video Calling, auto phones (Railway Phones) and mobile phones for guidance on medical related aspects.



NO EXPOSURE THROAT SWAB COLLECTION WINDOW

- * As part of COVID-19 preparedness measures and to tackle the spread of virus, Railway Hospitals at Lallaguda, Guntakal and Vijayawada have come up with the unique facility of collecting throat swab samples from patients suspected for COVID-19 symptoms.
- * A swab collection window is developed by using glass panel equipped with two gloves for medical personnel to collect the throat swab sample without physical contact and possibility of spread of droplet or aerosol infections. The swab collected from the patients is kept in Viral transport Medium and preserved in cold chain for dispatching to testing centres of State Govt. This is the safest way to collect swab samples without any physical contact.
- * In addition, Swab collection is also made available at major Railway Hospitals over the Zone.

SUPPLY OF MEDICINES TO RAILWAY FAMILY AT THEIR DOOR STEP

- * SCR's "Reach to the Door Steps" initiative to render best possible medical care services to the employees during the prevailing COVID-19 situation has earned wide acclaim. The initiative enables delivery of medicines at the door steps of Railway personnel, particularly the senior citizens who need not have to travel to the Central hospital, thereby ensuring their safety. Volunteers of the Scouts & Guides have taken up the task to deliver medicines at the last mile.
- * The requests from the retired/serving employees and their families are being received through WhatsApp and after scrutiny, appropriate medicines are supplied through the field volunteers to the doorsteps of the Railway Health Beneficiaries. The retired employees and their families are being issued medicines, which will suffice for two months, while serving employees are being issued medicines up to one month requirement.

EMPANELMENT OF ADDITIONAL MEDICAL STAFF



271

CENTRAL HOSPITAL, LALLAGUDA



43



161

RAILWAY HOSPITAL, VIJAYAWADA



11



36

RAILWAY HOSPITAL, GUNTAKAL



06



14



//RESOURCING NEEDS//

PRO ACTIVE STEPS TAKEN BY SCR WORKSHOPS

- * Sufficient Clamps were manufactured for fitting around 266 oxygen cylinders in Isolation coaches
- * 20 cots and 31 lockers were manufactured by Lallaguda Workshop while 11 cots were manufactured at Rayanapadu Workshop
- * Volunteering by LGDS Employees & their family members by Stitching Masks at Home.
- * Around 5000 Masks were stitched by staff/family members of S&T Workshop, Mettuguda. All the masks were disinfected at 65° C before distribution.
- * Distribution of cooked meals for contract Staff of Workshop
- * Distribution of Groceries to Contract Employees at LGDS Workshop
- * Railway institute at CRS/ Tirupati is provided with 40 beds for utilization as emergency quarantine facility.
- * Daily rated labour to the needy Shelter less persons in and around CRS/Tirupati area without food have been supplied with around 1500 food packets.
- * In Association with state police department, two Rehabilitation centers for shelter less poor people are created and served their basic needs like food & water duly mobilizing the funds from Voluntary railway men and nearby residential Community
- * Pedal operated hand wash with sanitizer dispensing units are provided at Carriage Repair shop, Tirupati at the entrance of each shop and Liquid soap solution provided at all the washrooms.
- * To facilitate cleaning at workshop area in Rayanapadu workshop, all the taps at wash areas have been converted into foot operated taps.
- * Regular announcement is being done at Lallaguda Workshop to create awareness of Post COVID Standard Operating Procedure through PA System in Shop Floor
- * Developed a Telugu tutorial explaining installation, filling relevant data and self assessment test of "Aarogya Setu" and "Covid-19 Survey"

PREPARATION OF HAND SANITISERS

590 LITRES LALLAGUDA WORKSHOP

100 LITRES RAYANAPADU WORKSHOP

700 LITRES CARRIAGE REPAIR SHOP, TIRUPATI

COMPOSITION OF RAW MATERIAL IN THE PREPARATION OF EACH 500 ML HAND RUB SANITIZER

ISOPROPYL ALCOHOL (99.8%)	350 ml
HYDROGEN PEROXIDE (3%)	10 ml
GLYCEROL (98%)	3 ml
RO WATER	140 ml



INNOVATIONS

AUTOMATIC HAND SANITIZER DISPENSER

Innovative Automatic Hand Sanitizer Dispenser is Developed by Lallaguda Workshop by using the following Material -

- * Moisture drain valve with time control - 1 No.
- * Occupancy Sensor - 1 No.
- * Fabrication and Pipelining
- * Cable, Wiring and Sensor Settings
- * Power Supply: 230V 1Ph AC

FOOT OPERATED WATER COOLER TAPS

- * 20 Water Coolers Taps converted into foot operation at Rayanapadu Workshop to avoid usage of Hands by arranging pedal and leverage mechanism

FOOT OPERATED HAND WASHING

- * 31 Hands washing stations were fabricated and kept at all prominent places such as Canteen, Main gate and other work stations in Rayanapadu Workshop. Each wash station consists of one water dispensing drum and one liquid soap dispensing drum provided with foot operated taps.

DISINFECTION TUNNEL

- * Installed a disinfection tunnel to sanitize the people before entering into the Shop floor at Carriage Repair Shop, Tirupati

MARKINGS ON PATHWAYS

- * At Carriage Repair Shop Tirupati, permanent markings were drawn on the road at one meter distance apart, to maintain Social Distance and to conduct Thermal Screening before allowing the staff into workshop and administrative office.

MANUFACTURED

FACE MASKS

17,400
LALLAGUDA WORKSHOP

13,000
CARRIAGE REPAIR SHOP,
TIRUPATI

COVERALL APRONS (PPE KIT)

4100
LALLAGUDA WORKSHOP

1050
CARRIAGE REPAIR SHOP,
TIRUPATI

COTS

20
LALLAGUDA WORKSHOP

11
RAYANAPADU
WORKSHOP



TRACK MAINTENANCE

TRACK MAINTENANCE

- South Central Railway is one of the major Zones on Indian Railways, spread over 6,336 Kms, connecting 754 stations. The Zone has stood at the top amongst all Zones over Indian Railways in execution of Track Maintenance works between 01st April and 30th June 2020, by efficiently utilizing reduced train movements during the lockdown period.
- Track maintenance is a crucial part of train operations which bears a direct impact on safety as well as speed. The Zone capitalised on the time available on account of reduction in train movements to maintain and strengthen rail tracks, on the basis of a meticulous plan of action. Accordingly, identified sections were prioritised for execution of maintenance works, deploying the entire track maintenance machinery for strengthening the tracks, points, crossings, sleepers and ballast. This has a direct impact on the safety, speed and reliability of train operations. As a result, the zone has been able to achieve the highest progress in terms of Track Machine Working across Indian Railways during the lockdown period. The machinery utilised for undertaking maintenance works include Plain packing Machines, Turnout Packing (UNIMAT) Machines, Ballast Cleaning Machines and PQRS Machines, which require less deployment of manpower. Precautions such as social distancing, wearing of masks, sanitising of machinery etc., were abundantly taken.
- Important sections where track maintenance has been undertaken include Guntur - Nadikudi, Guntakal - Wadi, Gooty - Dharmavaram, Secunderabad - Dhane, Secunderabad - Kazipet, Secunderabad - Wadi, Gudur - Vijayawada, Mudkhed - Secunderabad etc.



PLAIN PACKING MACHINE

- It is being done by using 3x, CSM, WST machines to measure the existing track parameters and to lift the track to enable for correction of alignment, longitudinal & cross levels. It is also used for Tamping/packing of ballast under the sleepers in order to strengthen the track.

TURNOUT PACKING MACHINE

- The work is being executed by using UNIMAT machines for correction of alignment, tamping & packing of points and crossings (which are available at the locations where change of track from one line to other line and converging of two lines etc).

BALLAST CLEANING MACHINE (BCM)

- These machines are used to carry out Screening of folded ballast, disposal of muck away from track and to restore clean ballast cushion thereby improving the elasticity (resilience) of ballast bed and drainage of track.

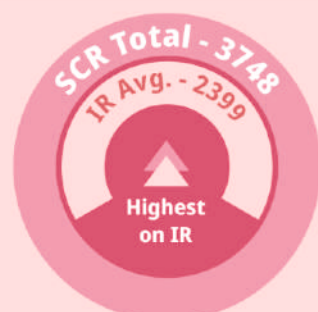
TRACK LAYING EQUIPMENT

- It is done by PQRS (Plaser Quick Relaying System) machine for track and sleeper renewal works and moves on auxiliary track of 3400 mm gauge.

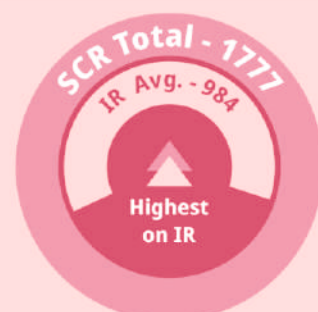


TRACK MAINTENANCE DURING LOCKDOWN PERIOD

SCR 1st
HAD THE BEST
PARAMETERS IN ALL
TRACK MAINTENANCE WORKS
AMONG ALL ZONES OVER
INDIAN RAILWAYS



PLAIN PACKING
(3X, CSM, WST) Km.



TURN OUT PACKING
(UNIMAT) No.s



BALLAST CLEANING MACHINE
(PLAIN TRACK) Km.



PQRS
in Km.



T-28
in No.s



STRENGTHENING INFRA

MEGA MAINTENANCE FOR ICONIC RAIL CUM ROAD BRIDGE

South Central Railway has completed comprehensive track maintenance work on the Iconic second Rail-cum-Road Bridge across River Godavari near Rajahmundry, Andhra Pradesh, seizing the opportunity of regulation of passenger train services in the period. The track maintenance work on the bridge was undertaken after 43 years from the time the bridge was commissioned in 1977. The work was carried out by taking a mega block of 36 hours (Total stoppage of train movement) on the bridge, thereby enabling start to finish undertaking of the task.

The mega track renewal maintenance work on the 3 Km long bridge was completed by laying of new track along with sleepers on the 06 spans with PSC deck slabs by using fully automated modern PQRS (Plaser Quick Relating System) cranes with minimal physical labour in the least possible time. Deep screening of the track length has been carried out by cleaning the ballast stones beneath the track to segregate accumulated wastes such as mud, broken pieces of stones etc.

The execution of work on the bridge has posed challenges on account of several technical aspects, which handles rail traffic on the lower deck and road traffic on the upper deck. All 6 spans of deck slabs are on a sensitive 6 degree curve, making it tough to handle maintenance tasks. Further, the working space on the bridge was insufficient for the rail personnel involved in the job as well as to provide space for auxiliary track to enable movement of PQRS cranes for undertaking the work. The work was completed with utmost precautions at every stage.



TRACTION DISTRIBUTION WORKS

- 18.40** Track Kms including 21 Critical Cross over locations of Failure Prone Catenary Wire Replaced
- 5.306** Track Kms of Failure Prone Contact wire Replaced
- 03** Redundant power line crossing removed
- 2 Cr** Crore saved by reducing demand for electricity at 9 traction sub-stations
- 53** 53 Super Masts erected between Aswapuram & Manuguru New line under construction



REPLACEMENT OF WOODEN LAYOUT SCISSORS X OVER WITH PSC SLEEPERS

Scissors X-overs, at junction stations, are vital link for dispatching and reception of all trains connecting railway lines from different directions. Maintenance of track parameters on these layouts has become a challenge due to decaying wooden sleepers and these crossings unable to sustain the heavy loads due to the increasing traffic. To enhance safety and strengthen the track, South Central Railway has taken up replacement of wooden layout Scissors X over with PSC Sleepers at Kazipet and Vijayawada, two prominent junction stations over the Zone. This task would have been very difficult to handle during the period of normal train operations as it requires considerable amount of Train regulation. The activity was handled duly maintaining social distance and wearing masks, including disinfection of the machinery.

KAZIPET YARD

In Kazipet yard, a scissors x-over which was laid in 1970 on a wooden layout replaced with PSC sleepers by using machinery within a span of 72 hrs time to reduce manpower and time required. Laying and assembling of PSC layout for Scissor X-over and connecting lead rails including adjustment of OHE wires and installing point motors by S&T was done as per RDSO drawing to get perfect geometry/layout.

VIJAYAWADA YARD

Two vital scissors cross overs located at the North & South side in Vijayawada Yard built with wooden layout more than 25 years back was replaced with PSC Sleepers. Both the cross overs are vital links connecting Vijayawada yard with Visakhapatnam & Secunderabad on North side and Chennai direction on South side. The layout has been opened to traffic with Unimat Tamping in Design mode. The layout were replaced by manual assembly in a block of 48 Hrs.

TRACTION DISTRIBUTION MAINTENANCE

28,447 Cantilevers	1019 Turnouts	32 Isolators Upgraded	303 Wornout droppers Replaced	720 Defective Bonds Replaced
528 Crossovers	1945 Overlaps	34,650 Insulators Cleaned	3606 Automatic Tension Device	126 PTF Ethylene Neutral Sections
67 Damaged Catenary Wire Strands Joined by splicing			8257 Track Km Live line & Foot-patrolling checking of sections including Sidings completed	



STRENGTHENING INFRA

CONSTRUCTION & REPLACEMENT OF BRIDGE WORKS

The outbreak of Covid-19 and the resultant Nation-wide lockdown led to curtailment of train operations, except for the movement of parcel and freight trains followed by Shramik specials and passenger special trains to tranship stranded people at different locations. With train services coming down to bare minimal, opportunity came in the form of availability of more time or taking traffic blocks in Railway sections. For SCR, this provided scope to lay special emphasis on all types of bridge repair works including rebuilding, replacement and construction at 23 different locations over the Zone.

SECUNDERABAD DIVISION

- * Bridge -697 on Upline between Kazipet - Vijayawada Section replaced with RCC boxes.
- * Bridge No. 692 on Down line between Kazipet - Vijayawada section replaced with RCC Boxes.
- * Bridge No. 518Up line between Kazipet - Vijayawada section replaced with RCC boxes 3 vents.

HYDERABAD DIVISION

- * Provision of additional vent way with RCC boxes by the side of existing RUB on bridge no. 478 at Nizamabad yard.
- * Rebuilding of Bridge No.74 in Umdanagar Yard.
- * Repair works to RUB at Level crossing gate no. 26 between Thimmapur-Shadnagar stations.
- * Rebuilding of existing stone top culvert Bridge No: 197 with RCC boxes between Gollapalli - Jadcherla stations.

UPKEEP OF S & T EQUIPMENT



Innovative use of web applications was put to use duly ensuring availability of required internet bandwidth at camp offices of senior officials and important locations, to facilitate audio and video conferencing to take the stock of situation from remote places and convey important management decisions to all.



To disseminate COVID-19 related information to common public over SCR jurisdiction, 18 telephone lines were provided over the six divisions of the zone.



Non-Interlocking working completed at Sri Laxmi Narasimha Swamy Infrastructure siding at Nagireddipalli station



GUNTAKAL DIVISION

- * Replacement of entire Steel Girders with PSC slabs for Bridges No. 794 (Upline) and 795 (Downline) between Jakkalacheruvu - Rayalacheruvu stations.
- * Rebuilding of Bridge 508 in Kadapa Yard with Barrel length of 40 meters across 6 tracks and 2 platforms was done by putting 33 segmental boxes.
- * Replacement of Stone-top culvert with RCC boxes on Bridge No:544 completed between Ganganapalle - Krishnapuram.
- * Replacement of Steel Girders with PSC slabs on Bridge No 66 between Anantapur-Taticherla.
- * Rebuilding of existing stone top culvert Bridge No: 1078 Up & Down with RCC boxes between Raichur - Yermaras stations
- * Replacement of RCC Slabs with PSC (Post Tensioned) slabs for Bridge no 215 on Guntakal - Nandyal Section
- * Replacement of old stone top culvert with precast RCC segmental boxes for Bridge No. 1051 & 1052 on Up & Down lines on Guntakal - Wadi Section

VIJAYAWADA DIVISION

- * A new bridge has been constructed between Narasingapalli & Bayyavaram on Vijayawada - Visakhapatnam Section, the cyclone affected track. As a part of it, excavation work, construction of 5 vents with 22.5 m waterway, slabs and placing of 50 boxes has been done.
- * New Water way bridge has been constructed in flood prone area between Tanguturu and Singarayakonda. Placing of 16 boxes and construction of 21 bottom slabs along with excavation works have been done as part of construction of this new bridge.
- * Replacement of 10 RCC boxes for old stone masonry Bridge no. 588 between Ongole - Karavadi stations has been done.

GUNTUR DIVISION

- * The new water way bridge no 97A is constructed by insertion of 28 boxes in four vent ways, between Nadikudi - Macherla



Electrically Operated Lifting Barrier commissioned at LC No. 20A(E) of SC Division

Emergency Sliding Boom arranged at 5 LC Gates

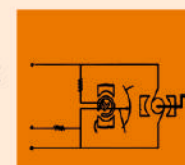
Interlocking circuit has been shifted and commissioned HUT duly providing Mini IPS at Level to New Gate Crossing 54 (E), LC 17 (E) of Secunderabad Division and LC 5(JB) of Hyderabad division.

Interlocking of LC No. 84, provision of HASSDAC & Replacement of Old IBS Gears in Mahbubabad - Gundratimadugu Section

Replacement of Electronic Interlocking at Mahbubabad Station



09 New IP Cameras provided at Anantapur Railway station in Guntakal Division



Cable Meggering carried out at 96 stations/Level Crossings 6 Quad cable meggering has been completed at 145 Block sections



9.8 KM of defective cable replaced.



// HELPING HANDS //

Tough times call for timely unison of people to tide over the situation. The lockdown on account of COVID19 pandemic presented a tough challenge to SCR in rendering succour to the stranded, who faced difficult times. While the Zone undertook extensive measures, efforts coming in from various sections of rail personnel added significantly, showcasing humanity in its true positive hues

FOOD & GROCERIES DISTRIBUTION

- * Vijayawada Division of SCR along with IRCTC distributed 2.5 Lakh free hot cooked meals to the needy, migrants, daily labourers, old age homes etc., at Vijayawada and other major stations on the division. The help rendered by RPF personnel in crowd control and efficiency of distribution was immense. 37 local NGOs contributed to ease the work, with their active participation as signified by the fact that they voluntarily came forward to serve more than 1 lakh meals to the migrants at railway premises. The divisional control staff distributed grocery kits to sanitation workers.
- * On Secunderabad Division, the commercial staff of the division raised out to 200 hamalis and cleaning staff with staple grocery kits worth around Rs 800 each. The RPF personnel of the Division generously helped around 14,000 contract workers and stranded passengers by distributing necessary commodities, besides serving over 10,000 free meals. Staff of Secunderabad & Hyderabad stations and IRSDC helped the Cleaning staff & Hamalis working at Secunderabad and Hyderabad stations with 320 kits comprising of essential food items.
- * On Hyderabad Division, staff of Commercial Department has distributed essential provision kits worth Rs 2 lakhs to Vendors, Hamalis & Outsourced Cleaning staff and also distributed food packets to 165 needy people at major stations. 170 food packets were distributed at Kacheguda and Gadwal Stations to feed the hungry. Personnel from the Mechanical Wing of the division distributed grocery item kits to 60 outsourced staff working in running/rest rooms.
- * On Guntur Division, 8024 no. of food packets to the needy people, who have lost their livelihood.
- * Operating department of Guntur Division has mobilized an amount of more than 5 lakh rupees. An amount of Rs 2.25 lakh has been donated to Amma Charitable Trust, Guntur who have supplied food to migrants, orphans and quarantined people. In addition, they have distributed Rs 2000 each to Safaiwalas, Vehicle Drivers, Box Boys etc.



TOWARDS WOMEN WELFARE

- * South Central Railway Women's Welfare Organisation (SCRWWO), led by Smt. Jayanti Mallya, President, distributed essential cooking items packs to the needy contract housekeeping staff working at Secunderabad Railway Station; Hyderabad Bhavan; Rail Nilayam and to the Sanitation workers in Railway Colonies. In addition, Hand Sanitizers & Cotton Nose Masks were also distributed for the safety of the workers.
- * The distribution was undertaken in a staggered manner at multiple locations to avoid crowding and maintain social distance. Shri Gajanan Mallya, General Manager, SCR graced several of these initiatives.
- * The SCRWWO also worked to supply free ration for food arrangements to the patient attendance and contract workers during the lockdown period at Central Hospital, Lallaguda.

HUMANITARIAN GESTURE

- * Homeopathy immunity boosting medicine kits were distributed to all the staff at Diesel Loco shed, Kazipet to protect them against COVID-19. The Licensed Porters and Old age homes at Kazipet were rendered help in the form of grocery kits.
- * Four staff members from the Mechanical department joined hands to stitch face masks in bulk at their residences, for distribution amongst the needy.
- * A Single RPF constable at Nizamabad went beyond his actual means to distribute 37 ration kit bags and supply food to the poor/needy people at Nizamabad for 30 days at a stretch, with support coming from 10 of his friends.
- * Operating Department of Secunderabad division took a different approach altogether and in the face of shortage, pooled in finances to donate 200 PPE kits to Vaidya Vidhan Parishad, King Koti Hospital and to Central Hospital, Lallaguda.



DISTRIBUTION OF GROCERY PACKS AND FINANCIAL AID BY COMMERCIAL STAFF TO RAILWAY LICENSED PORTERS WHOSE LIVELIHOOD WAS AFFECTED DUE TO STOPPAGE OF TRAIN SERVICES

VIJAYAWADA DIVISION	HYDERABAD DIVISION	SECUNDERABAD DIVISION
457 BENEFICIARIES	186 BENEFICIARIES	179 BENEFICIARIES
GUNTAKAL DIVISION	GUNTUR DIVISION	NANDED DIVISION
270 BENEFICIARIES	33 BENEFICIARIES	13 BENEFICIARIES

VIJAYAWADA DIVISION	HYDERABAD DIVISION	SECUNDERABAD DIVISION
7810 LITRES 51578 QUANTITY	2115 LITRES 24650 QUANTITY	1677 LITRES 45580 QUANTITY
GUNTAKAL DIVISION	GUNTUR DIVISION	NANDED DIVISION
1200 LITRES 43185 QUANTITY	1485 LITRES 14100 QUANTITY	14 LITRES 15300 QUANTITY

*Data as on 30th June 2020



STAFF OF ALL SIX DIVISIONS CAME FORWARD TO VOLUNTARILY PREPARE SANITISERS AND MASKS WITH INHOUSE MATERIAL, FOR USE AMONGST RAILWAY PERSONNEL.



INNOVATIONS

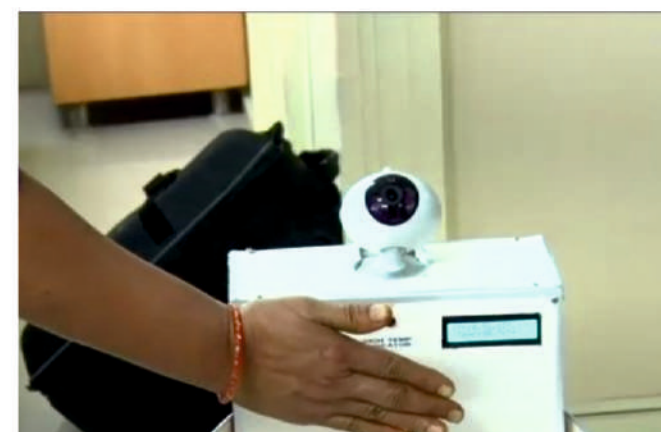
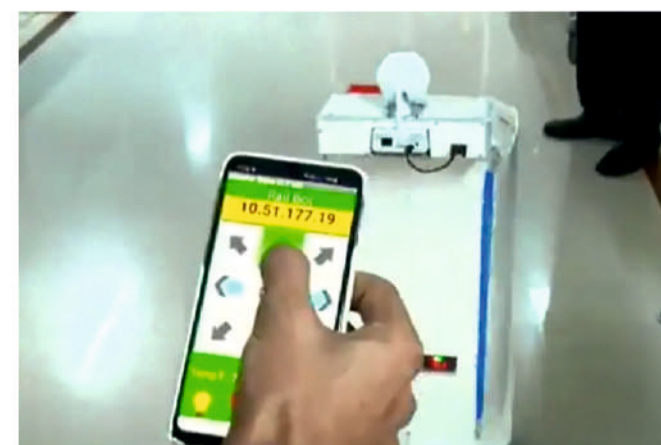
TEMPORARY MARKET FOR SALE OF ESSENTIALS IN GUNTAKAL TOWN

The people of Guntakal Town (Andhra Pradesh), which also is the Railway Divisional Headquarters, have been generally purchasing their daily essentials, mainly Vegetables and Fruits from the regular vegetable market. About 10,000 Railway staff/pensioners, their family members and around 1.5 lakhs citizens are exposed to risk of spread of Covid-19 during purchase of vegetables in cramped and congested market. The Railway Officials of Guntakal Division of South Central Railway have come up with a unique solution duly making use of the railway infrastructure for public use.

Guntakal Division has joined hands with the local Municipal administration to set up a temporary market in the huge Railway Ground in Guntakal Town for sale of Vegetables, Fruits and other essentials. The arrangement at the market in railway grounds includes well laid out, numbered and demarcated spaces for setting up stalls. Ground markings of lines for maintaining social distance by the customers with no possibility of physical contact ensures total safety.

DEVELOPMENT AND PROTOTYPING OF A LOW COST PORTABLE ELECTRO MECHANICAL VENTILATOR

In an effort to join hands with the nation in the fight against COVID-19 pandemic outbreak, Electric Loco shed, Lallaguda with the help of Central Railway Hospital, Lallaguda developed a low cost AMBU bag type ventilator system by utilising the in-house components, which is meeting the required clinical parameters. The prototype ventilator works with DC supply by converting 230 volts AC.



"RAIL-BOT", ROBOTIC DEVICE TO STRENGTHEN HOSPITAL MEDICARE

An innovative Robotic device, "RAIL - BOT" (R-BOT) has been developed by Shri Hem Singh Banoth, Additional Divisional Railway Manager, Hyderabad Division, South Central Railway to assist in hospital management functions towards patient care, particularly in the prevailing Covid-19 Pandemic Virus situation.

The R- BOT is being used to provide medicines, medical accessories and to serve food to the patients, without any need for physical contact. This will enable the Doctors, Nurses and other support medical staff to stay away from the risks of contacting infections.

The R-BOT is operated through a unique mobile application developed as part of the Innovation, supported by Wi-Fi facility. The R-BOT holds sensor based features to read the body temperature of patients and transmit the same for display on the Mobile phone. It is capable of raising an alarm in case of any abnormal high in the temperature readings so as to alert the Medics attending to the patients.

FEATURES OF RAIL - BOT

- * Real time Video Camera with Pan & Tilt functions holds 08 direction motion control with observation avoidance sensors
- * Acts as two way audio and video communication with recording, facilitating smooth interaction between patients and doctors
- * Uses infra-red technology with emergency Night lamp & Night vision
- * Speed of 1 Kmph with a load carrying capacity of 80 kgs
- * Can be operated by using Android Mobile App and Radio Frequency (RF) Remote Controller.

WEB APPLICATION FOR ONLINE SURVEY FROM EMPLOYEES

Vijayawada Division of SCR developed and designed a very quick and user-friendly Web application for conducting online survey using its in house resources and was transmitted to all the employees of the Zone up to the grass root level. Accordingly, around 70,000 Employees of the Zone have responded to the survey and provided the desired details. The critical information regarding availability of Doctors and Paramedical staff among the family members of employees and their willingness to serve in case of a need is also acquired during the survey. This crucial information will help the Railways and Nation to fight against COVID-19 pandemic. This user-friendly web application online survey also helped the Zone to collect the essential information from its employees which has assisted the SCR in containing the spread of Pandemic Corona Virus among its employees.



AVAILABILITY OF DOCTORS AND PARAMEDICAL STAFF AMONG THE FAMILY MEMBERS OF SCR



PERSONS WILLING TO SERVE IN CASE OF A NEED IN EMERGENCY SITUATION





STAFF WELFARE

Preventive Measures for Open Line Staff Including Running Staff

- * Bio metric verification system is temporarily withheld for Staff and in lieu of it, manual signing has been introduced.
- * Thermal screening is being done for all the staff before commencement of the duty.
- * Entry of personal details by the Loco pilots at crew booking Lobby in computer kiosk is dispensed with for the time being and is being done by the nominated employee directly into the computer to avoid multiple handling of kiosk key board.
- * Soaps and Sanitizers are made available at all Crew Booking Lobbies and Running staff are guided properly about the necessity of frequent washing of hands.
- * It is ensured that Running Room staff are wearing hand gloves, head covers & nose masks.
- * All the Technical & Engineering staff have been counselled regarding safe working at work place, social distancing at work places, proper usage of tools without exchanging, maintaining hygiene conditions at work place etc.
- * The track patrolling gangs were split into 3 to 4 men and are deployed for duty alternatively to maintain minimum required distance where ever possible.
- * Guidelines are being given to staff in the usage of masks and sanitizers etc.
- * Disinfection of Tamping Machine, Camp coaches, Duomatic and other Engineering Machinery is being done regularly.
- * In order to curtail the time spent out of their headquarters by Running staff, SCR has come up with innovative concept of "Round Trips" in operation of freight trains. Under this concept, as far as possible, running staff are being booked comparatively for short trips. Again, immediately after completing the outgoing trip, they are again being booked for another train towards headquarters.
- * All the Supervisors and Officers during the course of their inspection at workplaces are ensuring that staff deployed at the work places are observing the safety precautions such as using sanitizers, masks, hand wash at regular intervals etc., to combat with COVID-19.
- * To build the confidence and improve the safety of staff working in open line Coverall Aprons (PPE kits) have been supplied to the staff who are prone to the pandemic.



The pandemic COVID-19 lockdown presented testing times to the Railways and threw challenge to the frontline rail staff, whose dedication to duty underwent scrutiny. Thousands of SCR's committed workforce including Asst. Station Masters, Points men, Technicians, Engineers, Section controllers, Gangmen, Trackmen, Guards, Loco pilots, RPF, Doctors & Paramedical staff, Commercial & Ministerial staff etc proved their capabilities yet again to ensure smooth and hassle free running of freight & parcel services, shramik special trains, other special trains etc besides undertaking infrastructure strengthening works. The crucial role played by these sentinels to the society came in for immense appreciation from various quarters.



Work Areas, Railway Stations and Health Units

- * Stations which are operating passenger services are being sanitized on regular basis with Sodium Hypochlorite Solution.
- * Procured and Provided Social Distancing Stickers to all the stations and work areas.
- * Awareness pamphlets/ Posters regarding precautionary measures to be taken to contain Covid -19 were printed. In addition, LED display monitors are made available at Coaching depots to create awareness about the pandemic.
- * Sensor based Non-contact soap liquid and water dispensers, Pedal operated soap liquid dispenser water taps, Sensor based automatic sanitiser dispensers, Pedal operated hand sanitiser stand and hand wash arrangements are made at almost all locations to avoid the human contact.
- * All the open line staff viz., ticket checking staff, RPF etc have been provided with masks, gloves, facial shields etc. PPE Kits, Hand Gloves etc. have been supplied to all Rly hospitals.
- * Infrared digital thermometers have been supplied at all work areas. At Sanchalan Bhavan, Automatic Temperature Scanner Cum Sanitizer has been arranged.
- * Bi-directional Communication PA system has been installed in Guntur Division at important Reservation Counters, Railway Hospitals and Health units.
- * Only 50% (or) 33 % of the staff are booked to attend the office as per the guidelines issued by Ministry of Home Affairs time to time.
- * At major stations, passengers showing their tickets before the camera and their temperatures were taken by automatic thermal scanners and verified by the Ticket Checking staff through display monitors, by sitting inside a cubicle
- * To curtail the movement of staff and to prevent more number of staff at workplaces continuous roster is introduced in place of intensive roster and EI roster in place of continuous roster wherever feasible.

COVID-19 Treatment at Railway Hospitals

- * Central Hospital, Lallaguda in the State of Telangana, Railway Hospital, Vijayawada and Railway Hospital, Guntakal in the State of Andhra Pradesh are authorised by the concerned State Governments to admit and treat COVID-19 Patients with mild and very mild symptoms duly following ICMR guidelines
- * Accordingly, Necessary Initiative has been taken and Covid-19 treatment has been started for working, retired railway employees and their dependents.



Sanitization and disinfection is being done for all the Locos & Brake vans before being dispatched from Loco sheds, trip sheds and workshops.

In addition sanitization and disinfection is being done at crew changing points and also before they are attached to the freight trains at regular intervals.

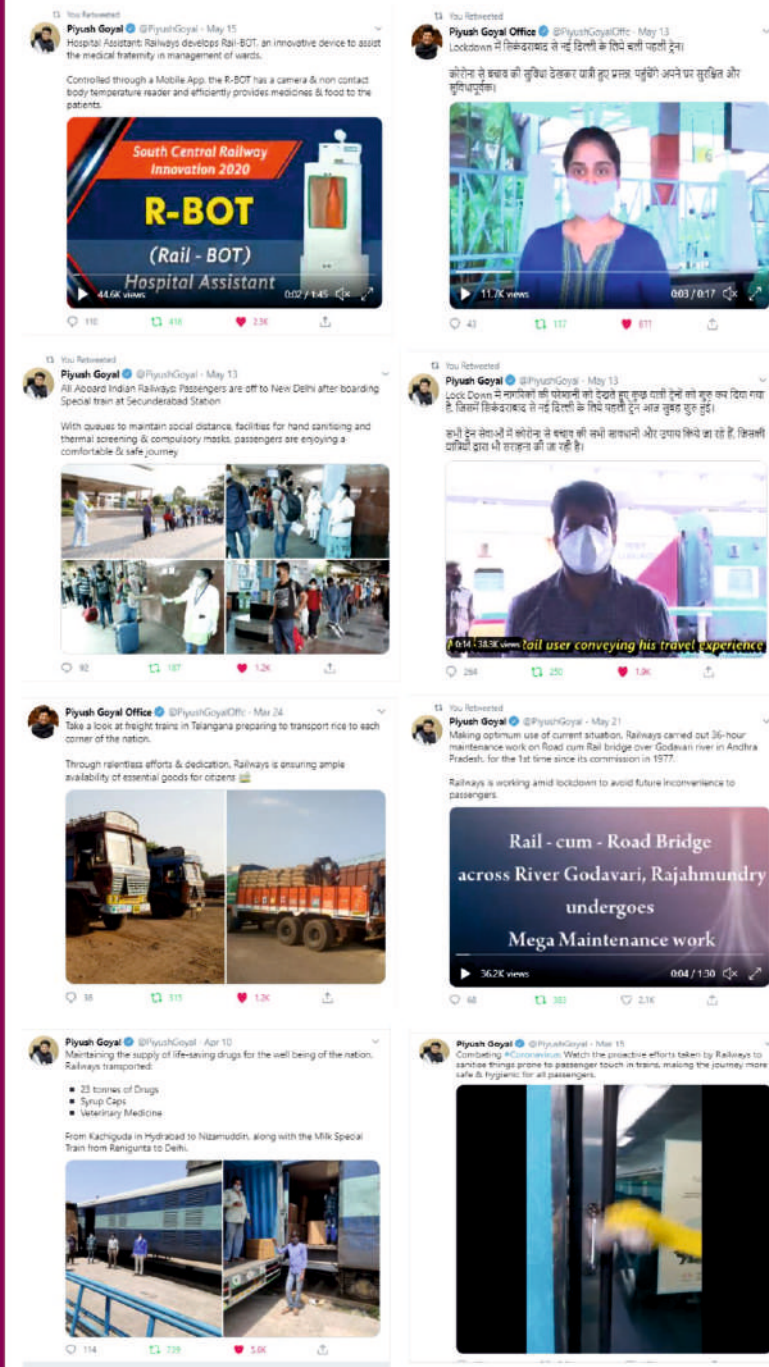
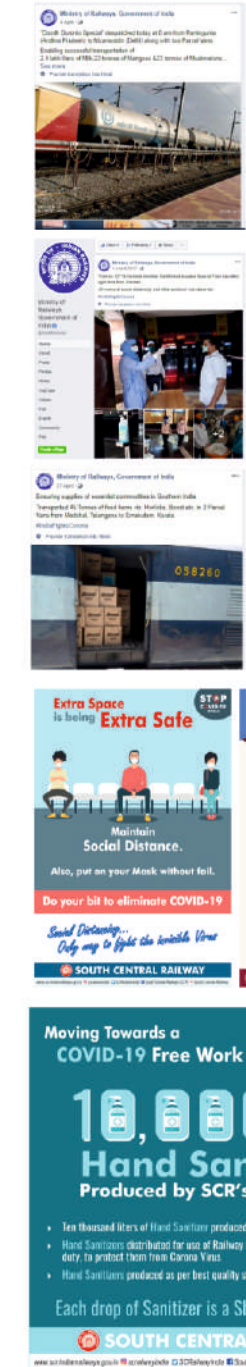
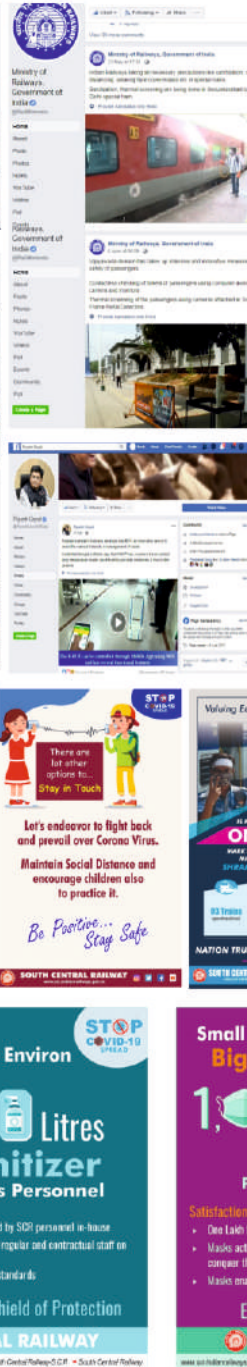
Spraying machines were procured and issued to all crew booking lobbies for sanitization with Sodium Hypo Chloride solution in Lobby and Running rooms every day and also in locomotives.



A kit is being supplied which contains

- * Dettol Soap
- * 200ml Hand Sanitizer
- * Triple layer mask
- * One set of hand gloves &
- * Tissue Papers to the running staff at Crew Booking Lobby

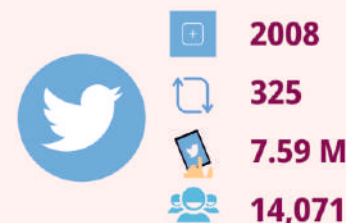
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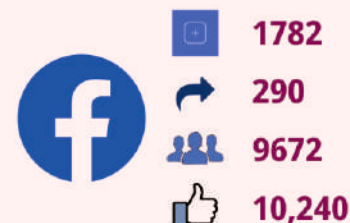
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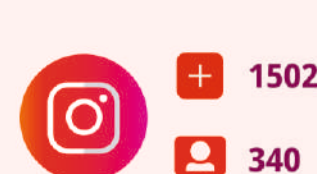
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