

MAINTENANCE EXPERINECE OF ELS/ASN

(An ISO 9001 : 2015, ISO 14001 : 2015, ISO 45001 : 2008, ISO 3834-2 : 2005,
ISO 50001 : 2018, Six Sigma and 5S Certified)



WAM-1 (1994-1998)



WAM-2 (1994-2000)



WAM-3 (1994-2000)



WAM-4 (2005 to till date)



WAP-4 (2019 to till date)



WAG-9 (2020 to till date)



WAG-7(2000 to till date)



WAG-4 (994-2001)



WAP-6 (1998-2007)



WAG-3 (1994-1997)



WAG-5 (1998 to till date)

MAINTENANCE EXPERIENCE

LOCO TYPE	YEAR OF HOLDING	
	FROM	TO
WAM-1	1994	1998
WAM-2	1994	2000
WAM-3	1994	2000
WAG-3	1994	1997
WAG-4	1994	2001
WAP-6	1998	2007
WAG-5	1998	2021(Till date)
WAG-7	2000	2021(Till date)
WAM-4	2005	2021(Till date)
WAP-4	2019	2021(Till date)
WAG-9	2021	2021(Till date)

BRIEF DETAILS OF DEPARTMENT

Traction Rolling Stock (TRS) Organization in ASN Division under the control of Sr.DEE/TRS is responsible for maintenance of electric locos in Electric Loco Shed & maintenance of Main Line EMUs (MEMUs) in MEMU Car Shed.

Brief History of Electric Loco Shed; Asansol

Dt. of Commencement – May – 1969

Established in May-1959 and it is the first AC Loco Shed in Indian Railways. This Shed has got the rich experience of maintaining various types of Locomotives since its inception, ranging from WAM-1, WAM-2, WAM-3, WAM-4, WAG-3, WAG-4, WAP-6 to WAG-5, WAG-7 & WAP-4 Locomotives. These Locomotives are dedicated to freight traffic except WAP-4 locos, these are equipped with modern devices as a result of technological advancement like Static Inverter Unit (SIV), Microprocessor based fault diagnostic & control system (MPFDCS), Vigilance Control Device (VCD), Microprocessor based Energy cum speed monitoring system (ESMON), Real-Time Train Information System (RTIS), Crew Voice / Video Recording System (CVVRS) and aerodynamic Crew Friendly Cab etc.

Moreover recently for the 1st time 18 nos. 3 Ø Locomotives (WAG-9 HC class) have been allotted to the shed which have

already been commissioned at this end. Latest technology DPWCS i.e. Distributed Power Wireless Control System has been commissioned for the first time in Indian Railways at ELS/Asansol in DSL/BWN based locomotive nos. 32824 & 32825/WAG9 provided with BHEL propulsion system.

Holding of ELS/ASN was 133 till Dec'18, and the same has been gradually increased up to 173 Locomotives in Jun'21 i.e. 40 additional Locomotives have been homed by the shed within 2.5 years i.e. an increase of 16 Locomotives per year.

Shed was holding only goods locomotives till Jul'19, and for the first time 18 nos. purely passenger service Locomotives have been homed by ELS/ASN in Aug'19 / Nov'19 & Dec'19, thus the shed has started maintaining passenger service locomotives.

The present holding of the shed is 173 Locomotives which includes 18 nos. 3 Ø (WAG-9 HC) Locos. However as per planning, total 25 nos. 3 Ø Locomotives (WAG-9) will be in the holding of ELS/ASN shortly in phased manner.

Inception of Electric Loco Shed; Asansol

Electric loco Shed; Asansol is the first A.C Electric Loco Shed over Indian Railways. This shed was started in May – 1959 by converting a small portion of Steam Loco Shed with a holding of 45 Locos. Initially WAM-1 Locos imported from Japan were based in this shed. Subsequently the holding of the shed was increased, as a few more imported Locos like WAG-2, WAG-3 and WAM-2 were based in this shed. With the addition of locos imported from Japan, the need for the expansion of this shed was felt and it was expanded to home 80 Locos in the year 1969 by taking a few more portion of Steam Shed. By the end of 1969 the shed was holding imported locos from continent i.e. (WAM-1 – 45 & WAG-3 – 10), 12 imported mixed Locos from Japan (WAM-2 – 10 & WAM-3 – 02) and 45 WAG-2 Locos which were also imported from Japan.

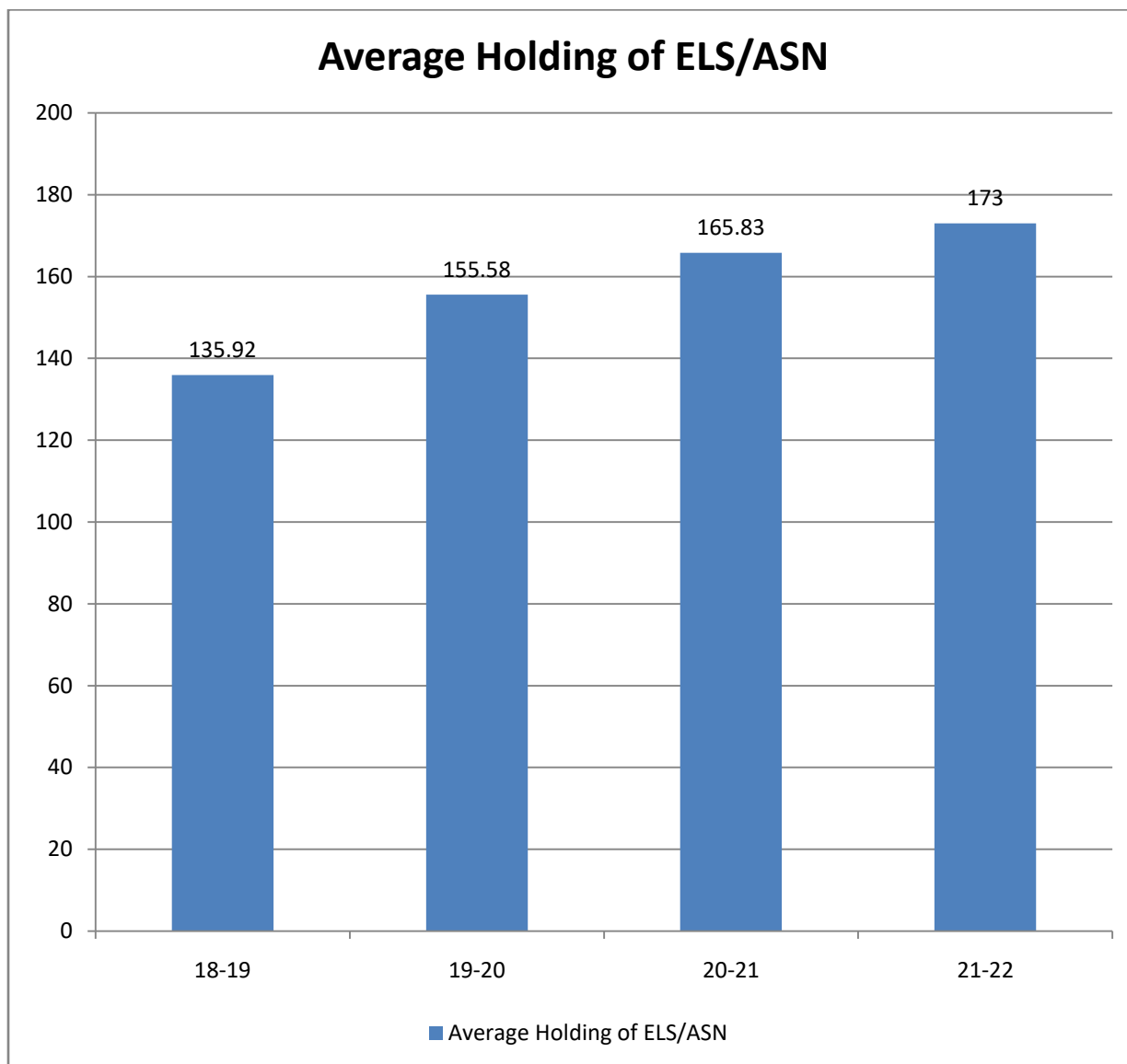
During 1970 CLW manufactured WAG-4 Locos were also homed at the shed. With the introduction of EMU rakes from BHEL & ICF, in Calcutta suburban section 25 WAM-2 Locos which were working in push-pull operation were converted to main line operation. These Locos were also transferred & homed at the shed. CLW started production and the first batch of 10 WAG-4 IR5 series Locos were commissioned and based at this shed in 1970. Gradually the holdings of WAG-4 Locos have gone up to 45.

As the holding was increasing further, the shed was further expanded to home 110 Locos in the Year 1974 by taking some

more portion of Steam shed. More & more locos have been added & finally shed was expanded to home 115 Locos in the year 1980. With the introduction of Air Brake Stock, a few WAG-4 Locos were converted for dual brake operation. Further facilities were created for maintaining 20 dual brake locos by taking some other portion of Steam Shed. Initially 15 nos. WAP-6 Locos were based at Baroda Loco Shed & MGS Loco shed. These Locos had a number of maintenance problems due to defect in mechanical & pneumatic side. After about one year of unsuccessful trial these 15 Locos were transferred to this shed within May'98 to Sep'98 and after a service of 09 years maintained by ELS/ASN these locos have been transferred to ELS/HWH for conversion to WAP-4 as per the competent authority.

INCREASE OF LOCO HOLDING

2018-19	2019-20	2020-21	2021-22
135.92	155.58	165.83	173



SERVICE WISE CLASSIFICATION OF LOCOMOTIVES

Type of Loco	Holding	Codal Life	Utilisation
WAG-5/HITACHI	60	35	FREIGHT
WAG-5/TAOCHI	39	35	FREIGHT
WAG-7	35	35	FREIGHT
WAP-4	18	35	COACHING
WAM-4	03	35	INFERIOUR SERVICE
WAG-9	18	35	FREIGHT
Total	173	35	-

<u>Goods Service</u> 152 Locos (WAG-5/T - 39, WAG-5/H – 60, WAG-7 – 35 & WAG-9 – 18)	<u>Passenger Service</u> 18 Locos (WAP-4 – 18)	<u>Inferiour Service</u> 03 Locos. (WAM-4 – 03)
Link Requirement – 16 (WAP-4)		

LOCO AGE PROFILE

Type of Loco	Holding	Age Profile						
		Up to 10 Yrs	11 – 15 Yrs	16 – 20 Yrs.	21 – 25 Yrs.	26 – 30 Yrs.	31 – 35 Yrs.	Above 35 Yrs.
WAG-5/HITACHI	60	0	0	0	1	27	32	0
WAG-5/TAOCHI	39	0	0	0	0	21	18	0
WAG-7	35	12	20	0	3	0	0	0
WAP-4	18	07	02	0	9	0	0	0
WAM-4	03	0	0	0	0	0	0	3
WAG-9	18	18	0	0	0	0	0	0
Total	173	37	22	0	13	48	50	3

**MINOR & MAJOR SCHEDULES PRESENTLY
BEING CARRIED OUT AT ELS/ASN**

Minor Inspection			Major Inspection		
IA Insp.	IB Insp.	IC /IC ₀ Insp.	TOH	AOH	IOH
All locos.	All locos except WAP-4.	All Locos.	All Locos except WAM-4	WAM-4.	All Locos.

AREA OF ELECTRIC LOCO SHED; ASANSOL

The present area of this shed is 14385 mt sq. which includes pit area of 837 mt sq. & extension of 5 Ton crane area 870.4 mt sq. Construction work of the extension of 05 Ton crane area is under progress.

INFRASTRUCTURE :

At present ELS/ASN is holding 173 nos. of Locomotives against the existing capacity of 100 Locos.

However current augmentation work is in progress for homing up to 120 Locos.

1st phase work under augmentation program has been completed 100% i.e. construction of Capital Store Building & Trip shed along with building has been completed.

Extension of Electric Loco Shed under 2nd phase of augmentation work is under progress.

The overall physical progress of the shed augmentation work is 66%.

At present ELS/ASN is facing infrastructural constraint towards discharging the responsibilities of smooth preventive maintenance of locomotives due to increased holding, moreover in the present scenario it is expected that more 3-phase locomotives will be homed at this shed in near future as 40 Locomotives have already been homed at ELS/ASN within last 30 months resulting in increase of holding from 133 to 173 Locos, However a work of Rs.2.92 crore towards roof changing & heavy duty flooring as well as ancillary works for further up gradation of Electric Loco Shed, Asansol has already been sanctioned & the work is under progress.

1st phase works of Rs. 119998th to accommodate 3-phase locos has been proposed through IRMPSM which has been shortlisted in umbrella works and now the case is under Associated A/C vetting.

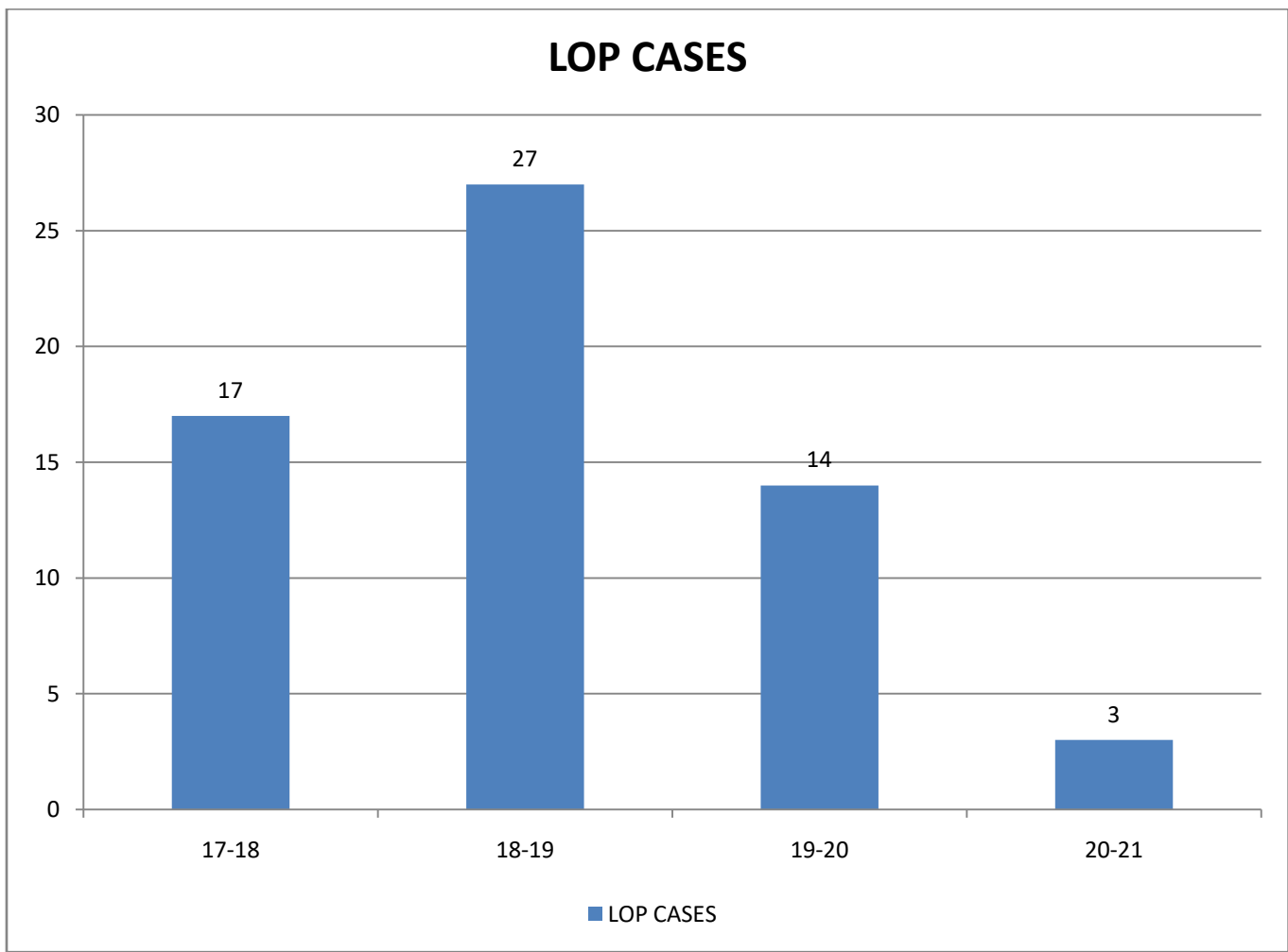
Another work of Rs. 2.92 crore for infrastructural development and provision of electronic lab for 3-phase Locomotive as well as M & Ps required for 3-phase is under associated A/C vetting.

DETAILS OF PITS / BAYS				
ITEM	INSPECTION BAY	LIGHT LIFTING BAY(5T & 15T)	MEDIUM LIFTING BAY	HEAVY LIFTING BAY(45T & 50T)
No. of lines	06	04	00	03
Area (in sq. mtrs.)	1960.56 (147.3 X 13.31)	2893 {(140X13.31)+(52X19.8)}	00	4378.5 (208.5X21)
No. of Pits per Line	2 Pits/Line- 04 nos. 1 Pit/Line- 02 nos.	1 Pit/Line-02 nos.	00	1 Pit/Line- 01 no. 2 Pit/Line- 01 no. 3 Pit/Line- 01 no.
No. of Pits	10	02	00	06
Under construction in augmentation works- Area	-	870.4 m ² (65.395X13.31) Extension of 5 Ton crane bay	-	-

COMPARATIVE FIGURES OF LOP

(LAST 04 YEARS)

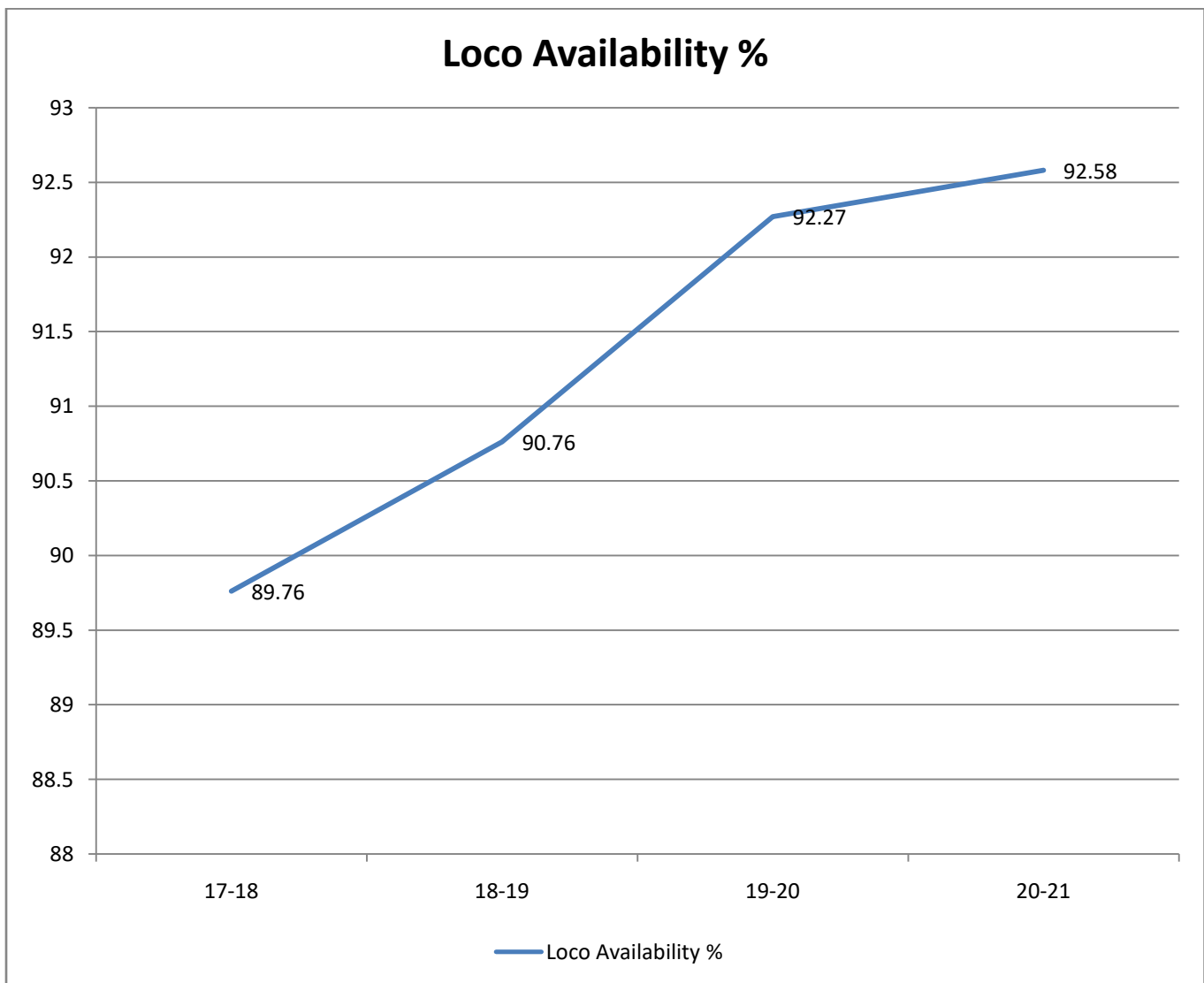
2017-18	2018-19	2019-20	2020-21
17	27	14	03



COMPARATIVE FIGURES OF TOTAL LOCO AVAILABILITY (In %)

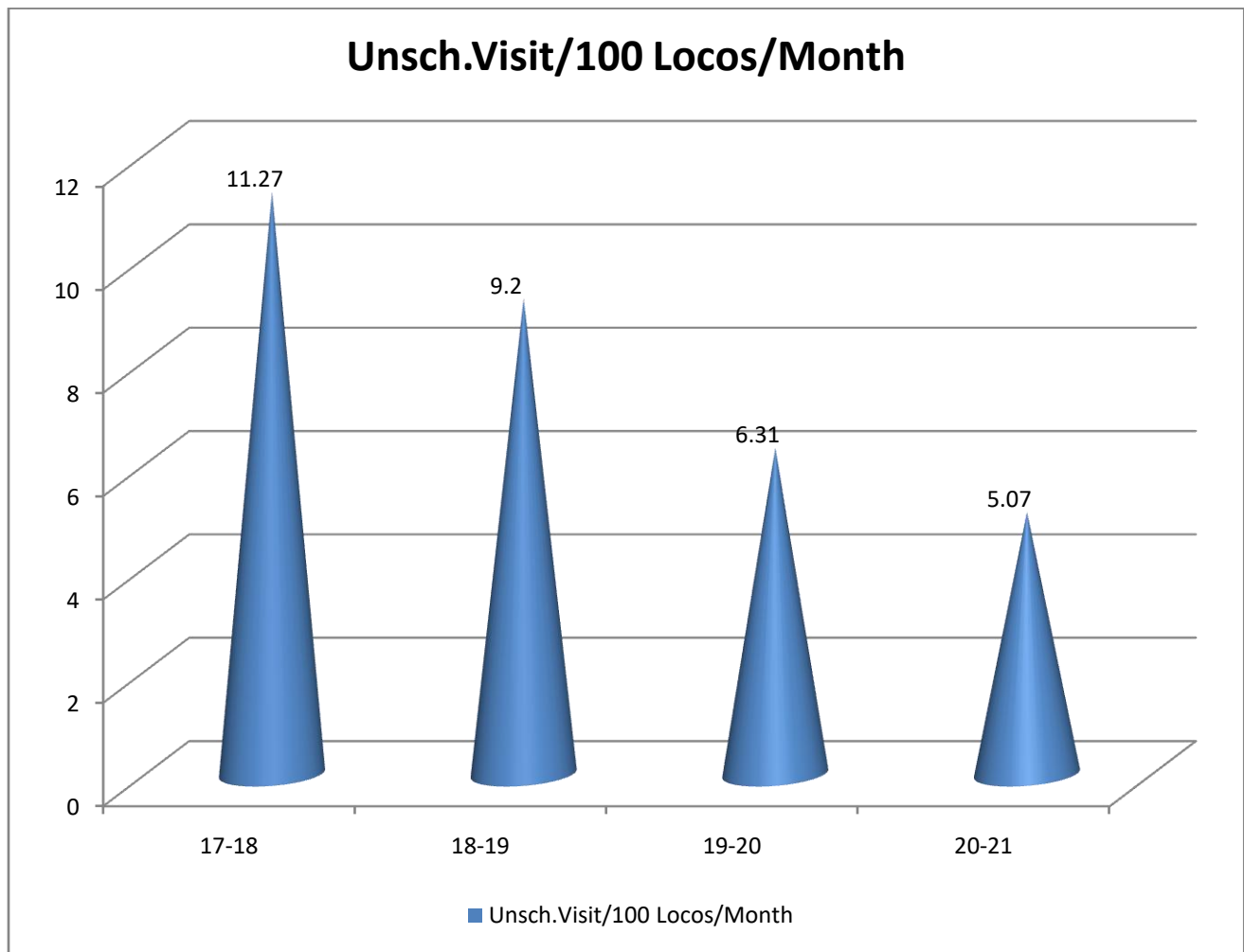
(LAST 04 YEARS)

2017-18	2018-19	2019-20	2020-21
89.76%	90.76%	92.27%	92.58%



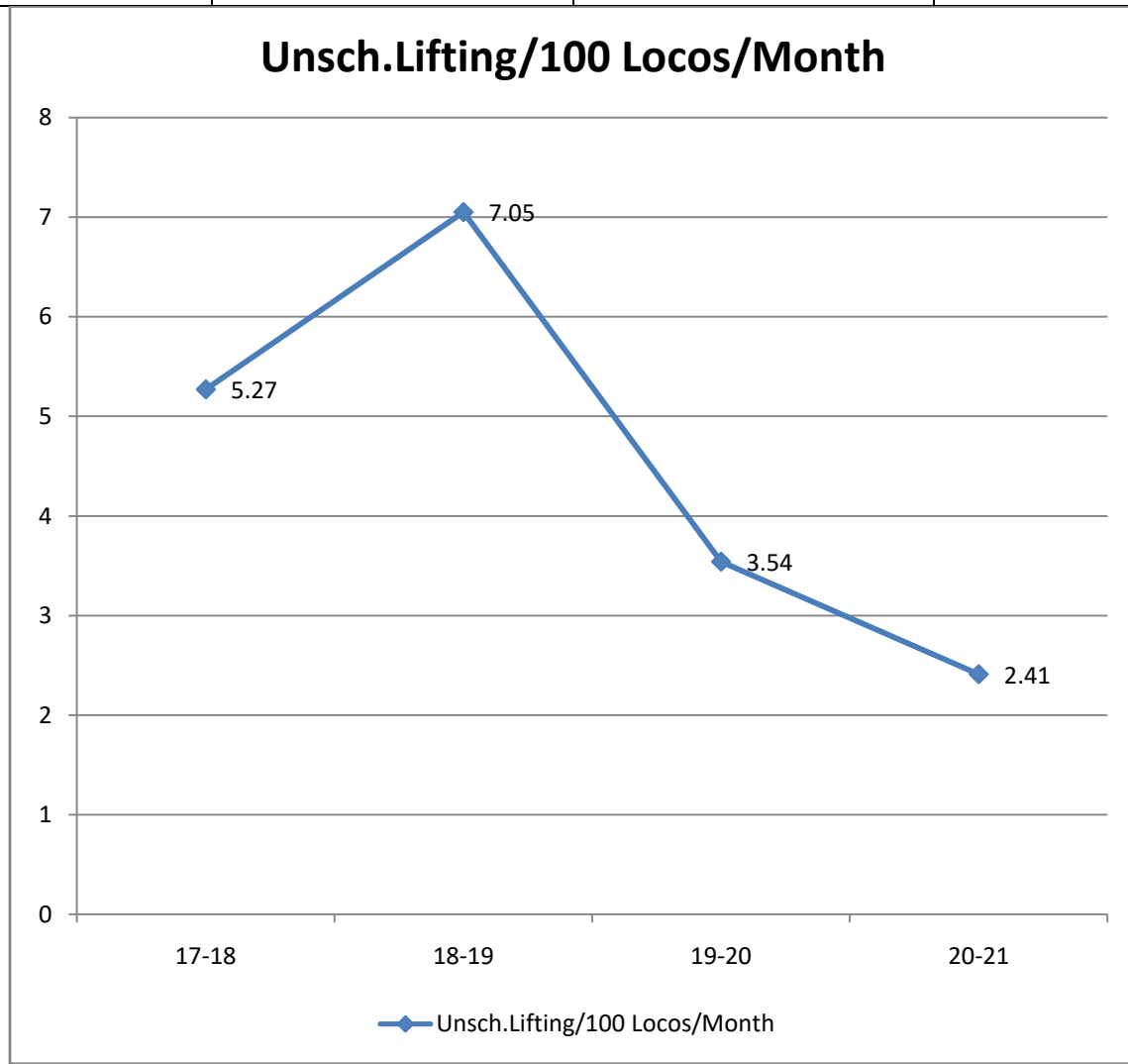
COMPARATIVE FIGURES OF
UNSCHEDULED VISIT /100 LOCOS / MONTH
(LAST 04 YEARS)

2017-18	2018-19	2019-20	2020-21
11.27	9.20	6.31	5.07



COMPARATIVE FIGURES OF
UNSCHEDULED LIFTING /100 LOCOS /
MONTH
(LAST 04 YEARS)

2017-18	2018-19	2019-20	2020-21
5.27	7.05	3.54	2.41



SALIENT FEATURES OF ELECTRIC LOCO SHED; ASANSOL QUALITY CERTIFICATION

IMS certification

ELS/ASN is certified with Integrated Management System (IMS) which includes (ISO 9001-2015 – Quality Management System, ISO 14001:2015 – Environment management system & ISO 45001:2018 – Occupational Health & Safety management system).



IMS certification of ELS/ASN

Six-Sigma Certification

Certified with Lean & Six Sigma implementation by M/s. Anexas, Europe, and certifying body.



Presentation of Six Sigma certification in presence of respected General

5-S Certification

As a part of workplace Management process / quality certification process, ELS/ASN is certified with the prestigious 5S Certificate. ELS/ASN has successfully achieved and implemented the standard of 5S in its workplace.



Presentation of 5S certificate

ISO Certification

ELS/ASN has been certified with 'ISO' which includes:

- Fusion Welding of Metallic Materials i.e. ISO 3834 –2: 2005.
- Energy management system i.e. ISO 50001:2018.



ISO 3834 – 2: 2005



ISO 50001:2018

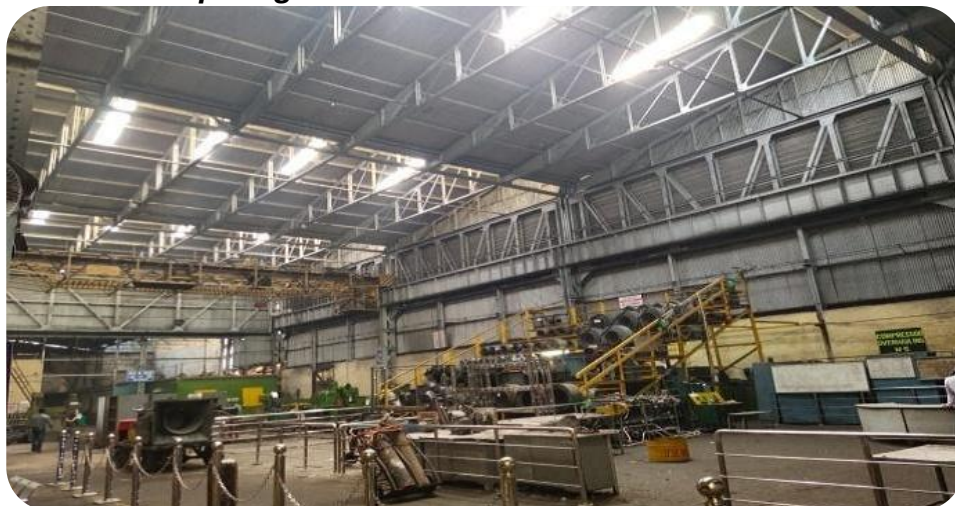
MAJOR PROJECT / ACHIEVEMENT

Day Light Harvesting Project Phase - I:

Commissioned solar pipe lights as a part of day light harvesting. Day light harvesting has been introduced at Electric Loco Shed; Asansol which is for the 1st time in Eastern Railway. Huge improvement in illumination level during day time has been observed in the areas where the said lights have been commissioned. The same has not only increased illumination level in working place but also reduced energy consumption.

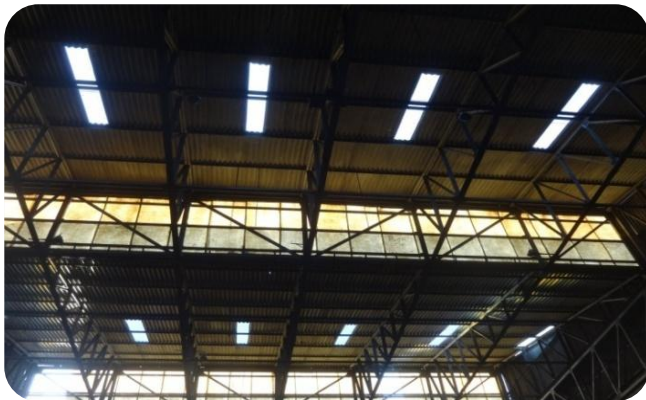


Solar Pipe Light installation on the roof of ELS/ASN



Day Light Harvesting Project Phase – II :

After successful Commissioning of solar pipe lights (16 nos.) in Phase-I as a part of day light harvesting which made noticeable improvement in illumination during day time, Phase-II have been done in some other areas of shed and Total 37 lights have been installed in 2nd phase. Thus illumination has improved from 80 Lux to 320 Lux and Illumination level meets standard of lighting as per BEE standards with an approximate saving of Rs. 147168 / Year.



Before installation of Solar pipe



After installation of Solar pipe light

Branding of Locomotives for revenue generation :

ELS/ASN has done for the first time branding of WAP-4 Locomotive no. 22241/WAP-4 through advertisement in the form of PU painting on the exterior surface on both sides only leaving front and back space for a period of 03 years. Branding of this Locomotive will earn total revenue of 06 Lakhs in 03 Years.



Branding of Loco No.22241

Revenue through scrap generated from condemned Locomotives :

ELS/ASN has offered total scrap of 689.43 MT (Ferrous - 664.174 MT & Non-Ferrous – 25.258 MT) generated from 05 nos. condemned Locomotives which has contributed revenue of almost 02 Crore to Asansol Division. This is the first time condemnation of any Locomotive has been done through this shed, previously it was being done through KPA Workshop.

Homing of 3 Ø Locomotives

This is the 1st time ELS/ASN has homed 18 nos. 3-phase Locomotives (WAG-9-HC).



Flagging off of 1st 3 Ø Locomotives No. 32949/WAG-9-HC

Loco No. 32949/WAG-9-HC was flagged off by 02 senior lady personnel Smt. Meena Devi & Smt. Kochi Bouri of ELS/ASN on 27.11.20. This is the 1st time in the history of ELS/ASN a 3-phase Locomotive has been turned out from this shed after IC0 Inspection.



1st time Lifting and Lowering of 3Ø loco at ELS/ASN

In the period when ELS/ASN was a shed homed with conventional Locomotives only i.e. despite being a conventional shed, for the 1st time on 04.09.2020, 3-Ø Locomotive no. 34014/WAG-9/H/BWN has been lifted for draft gear changing due to breakage. It is a historic day for ELS/ASN as under profound competency of ELS personnel, shed has lifted 3 Ø locomotives first time independently.



1st time TM changing of 3Ø/WAG-9 Loco at ELS/ASN

ELS/ASN has done a commendable job as for the 1st time Traction Motor of 3- phase Locomotive No. 32824/WAG-9/ BWN has taken out as TM-4 stator bonded. That is the 1st time at ELS/ASN a Traction Motor of a 3Ø Locomotive has been lifted maintaining all the safety precautions.



1st time All wheel changing of 3Ø / WAG-9 Loco at ELS/ASN

ELS/ASN has changed all wheels of 3 Ø phase Locomotive No. 31409/WAG-9/BWN due to diameter less. This is the 1st time all wheel changing of a 3 Ø Loco has been done at this end.



INNOVATION

Modification in over aged WAM-4 Loco for shunting under progress :



21380

(A Unique Modification work is under progress at ELS/ASN)

Crew Friendly
Electric
Shunting Loco
21380-WAS4



Diesel locomotives (WDS) were used for a long time for the purpose of shunting in Indian Railways. It not only leads to huge consumption of valuable diesel but also wastes diesel during idle hours between shunting operations. In order to overcome this problem and to incur savings on diesel with the changing scenario of Indian Railways i.e. total electrification of Eastern Railways, a project has been undertaken by ELS/ASN as advised by PCEE/ER to utilize over aged WAM-4 class of electric loco that has crossed its codal life but can be used into inferior service i.e. for shunting purposes in place of Diesel Locomotive. The modification is under progress at this end.

Repairing of MPCS cards

- Detection & repairing of defective cards of M/s. Stesalit make MPCS unit through indigenously developed MPCS Test Bench at newly developed Electronic Lab has been introduced. Total 89 nos. MPCS output cards of M/s. Stesalit make have been repaired so far. Repairing of MPCS cards will save approximately Rs. 13.22 Lacs per year + Rs.4.93 crore (one time).



Indigenously developed OTP based digital lock

An OTP based digital lock has been indigenously developed at ELS/ASN. It is a double security lock controlled by password and OTP.



Scrap To Art :

ELS/ASN has fabricated a few models from scrap as a part of “Scrap to Art”. An Art gallery has been formed at ASN Rly. Station with the said models.



Sofa from scrap drum



Fighter Plane



Mother with child



Robot from pipes, springs & nut bolts.

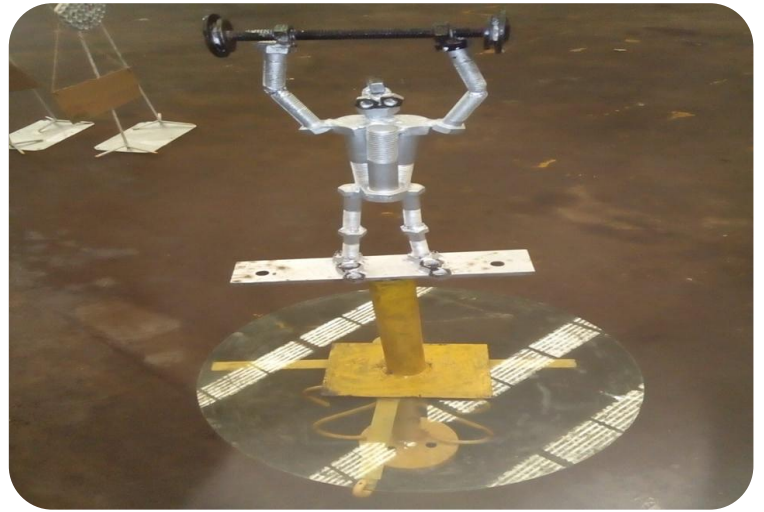


Table from Sky-light glass



Peacock



Lion



Prithvi



Make in India emblem.

Consist Formation 1st time in Eastern Railway at ELS/ASN :

- 05 nos. of WAG-5 consist of 03 locos each formed at ELS/ASN which is 1st time in Eastern Railway.



Consist formation by ELS/ASN.

Automated Sand dryer & sand filling machine.

A sand dryer along with the facility of automated sand filling machine has been fabricated at ELS/ASN with internal resources (mostly of scrap material).



Automated sand drying & filling machine.

Commissioning of Crew Voice Video Recording System

As per RDSO's spec. no. RDSO/2015/EL/SPEC/0118 REV-0 issued on 17.09.2015, Crew Voice Video Recording System (CVVRS) has been commissioned in 03 nos. WAP-4 Locos (22277, 22851 & 22241) at shed level. This system will ensure effective and tamper proof video & voice recording of loco cab and track view for post event analysis.



Commissioning of DPWCS

Latest technology DPWCS i.e. Distributed Power Wireless Control System of M/s Lotus Wireless has been commissioned for the first time in Indian Railways at ELS/ASN in DSL/BWN based locomotive nos. 32824 & 32825 / WAG9 provided with BHEL propulsion system. DPWCS is a method for running longer freight trains for higher throughput achieved by wireless (radio frequency) connectivity. In this technology several locomotives are placed over the length of the train to assist the leading locomotive in traction and braking resulting in faster operation with high loading.



Pocket booklet of 3Ø locomotive TM

A pocket booklet regarding 3-phase Traction Motor has been prepared by TM section. This booklet will be helpful at supervisors' as well as staff' level regarding preventive maintenance of 3-phase Traction Motors.



Pocket Booklet of Pneumatic system of 3Ø locomotive

A 3-phase loco pneumatic pocket booklet containing E-70 & Knorr Breamse brake system details has been prepared by the pneumatic section.



Maintenance Booklet of TFP of 3Ø locomotive

A booklet regarding maintenance of 3-phase Loco Transformer prepared by E-5 section. This will help in maintaining 3-phase Loco Transformer by shed personnel.



Extensive Training on 3-phase Locomotives

In view of homing of 3 phase locos (WAG-9), extensive training of staff & supervisors have been undergoing at this end & also by deputing them to ELS/GMO, HWH & CLW.

Moreover One day training has been imparted by M/s. B.T. & M/s. Knorr Bremse. The training has been conducted in 02 phases i.e. PPT & interaction with shed personnel followed by practical demonstration in locomotives.



Multi-unit formation of WAP-4 locos for the 1st time in E.Rly

For the first time in ER, ELS/ASN has done multi unit formation of WAP-4 locos (22242 & 22288) aiming towards increase of freight outage resulting in increased revenue generation during pandemic period when the demand for coaching locos was less.



Inauguration of Electronic Lab

Electronic lab for three phase loco has been developed with ESD safe flooring and ESD safe racks for storage of electronic cards & the said lab has been inaugurated by PCEE/ER virtually on 02.06.2021.



Inauguration of Pneumatic overhauling section (M-5)

Newly constructed dust free AC pneumatic valve overhauling section consists of Various newly developed test benches like Distributor valve test bench, A/9 / SA/9, C-2 relay valve etc. test bench, Air flow , R-6 valve test bench and Tri-plate conventional test bench has been inaugurated on 19.02.21.



Inauguration of Electrical overhauling section (E-5)

Newly shifted Electrical overhauling section (E-5) consists of various newly modified / up-graded test benches like EPC, C-118 Test bench, EMC test bench, CGR O/H test bench, GR & SMGR test bench, 02 nos. NC-4 valve test benches, MP Test bench, Reverser / CTF O/H test bench, SMGR valve O/H test bench has been inaugurated on 19.02.21.



Spring Testing Machine

One no. spring testing machine of M/s. HMM-Hytech make having 10 Ton capacity has been procured for checking working height of primary & secondary springs.



Computerised Torque Wrench

As a part of improved maintenance practice, computerised torque wrench has been introduced to check the tightness of bolts and storage of the corresponding data as soft copy.



Introduction of High current injection test

As per RDSO's SMI No. 0271 Rev '0', high current injection testing has been introduced by newly procured High current injector for prevention of failures of Traction Motors in service and detection of bad brazed joints of interconnectors of Main Pole and Commutating Pole coils of TMs.



Commissioning of MPCS Version-III at shed level

Commissioning of M/s. Medha make MPCS Version-III with GPS facility has been undergoing at shed level despite it is a workshop level job. Now total 35 nos. ELS/ASN based Locomotives are provided with version-III type MPCS, out of which 24 nos. have been commissioned at ELS/ASN.



Commissioning of High Reach Pantograph

As instructed by HQ, for the 1st time commissioning of High Reach Pantographs type WBL-85-HR of M/s. Shunk make in BWN based WAG-9 class of Locomotives has been undergoing at this end. Total 12 nos. of the said type of pantographs have been commissioned till date.



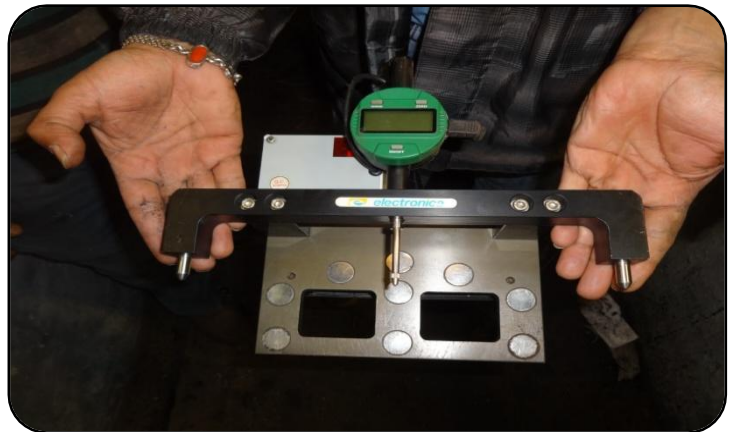
Baling machine at ELS/ASN

A baling machine has been procured at this end and installed at Pit lathe shed of ELS/ASN to compress the metal scraps which is removed after wheel turning. This in turn will help for scrap management and also saves huge space by storing of scrap in lesser space.



Digital wheel measurement gauge

One no. digital wheel measurement gauge of M/s. Electronica make has been introduced in the system for measuring of wheel diameter.



Heavy Duty High Precision Quality

Central Lathe Machine

One no. Heavy Duty High Precision quality Centre Lathe Machine has been commissioned which has been virtually inaugurated by respected PCEE/ER on 02.06.2021.



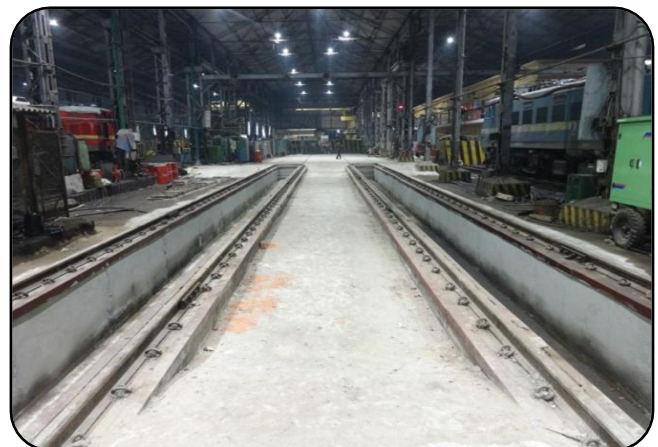
Achieved the target of Scrap Disposal

ELS/ASN has achieved the target of scrap disposal for the current financial year. In 2020-21 (Up to Mar'21) total scrap of 157.24 MT (Ferrous – 147.77 & Non-Ferrous – 9.47) has been disposed off against the proposed target of 105 MT (Fe – 100 MT & Non-Fe – 05 MT).

Some Infrastructural development done in ELS/ASN

Renovation Pin nos. 7, 8, 9 & 11:

The renovation work of Pit nos. 7, 8, 9 & 11 which has been undergoing is completed.



Commissioning of new 50 Ton EOT Crane :

One no. EOT Crane of M/S. ALPHA make having 50 Ton capacity of 21 Mts span along with DSL 50 Mts sanctioned by Railway board vide P.B. item no. 771 of 18-19 has been commissioned & functional on and from 19.02.2021.



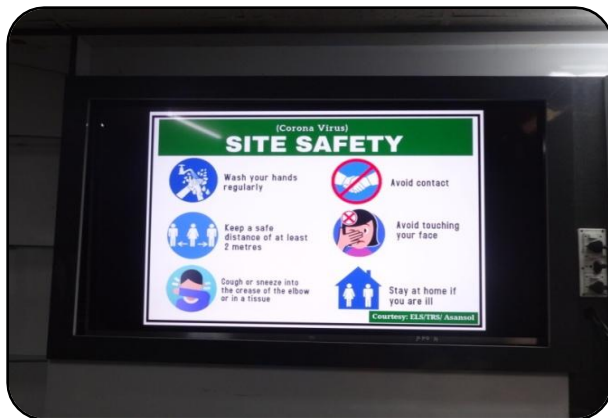
Renovation of Capital store :

A Capital store depot is being set up with cage pallet storage system and three side cladded multiflex system to cater to the future need of this division in the maintaining of three phase locomotives.



TVs:

Four nos. large screen Display units / TVs have been installed for mass counseling of shed personnel through audio visual mode. Various necessary maintenance parameters, loco positions, safety guidelines, various technical videos etc. are being displayed at a regular basis for awareness of shed personnel.



Auxiliary Park:

A rack for storing of Auxiliary motors named as “Auxiliary Park” has been fabricated at ELS/ASN for systematic storing of auxiliary machines.



Newly fabricated Auxiliary Park

Racks for systematic storing of Helical Springs :

02 nos. racks have been fabricated at heavy lifting bay with internal resources for stacking of inner & outer helical springs in a systematic manner.



Stacking of Helical springs after commissioning of rack

Fabrication of Wheel Park :

A wheel rack named as “Wheel Park” has been fabricated for proper stacking of wheels to save valuable working space as well as to fetch aesthetic look.



Wheel Rack.

Staff Welfare & Extracurricular activities at ELS/ASN

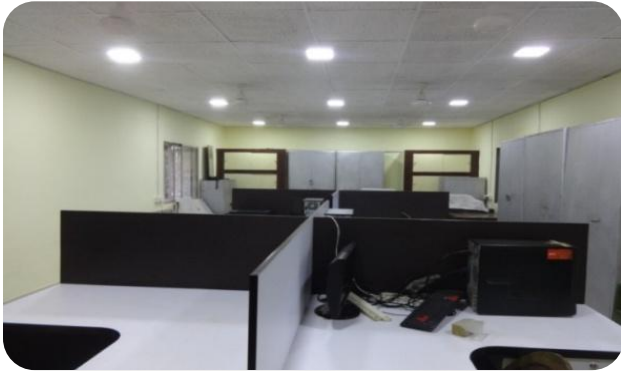
Inauguration of Gents' & Ladies' Toilet :

As a part of staff amenities, 01 no. Gents' and 01 no. Ladies' toilet equipped with modern accessories like floor tiles, wash basins, mirrors etc. have been constructed at ELS/ASN.



Installation of Work stations in offices and sections:

Work stations have been installed at various offices and sections for providing better working ambience.



E-learning booth and welder & crane driver's booth

Aiming to make the staff familiar to access in various electronic activities like HRMS, RESS etc. E-learning booth has been introduced. Through welder & crane driver booth, their availability in round the clock shifts can be accessed instantly.



Staff Corner

Staff corners have been constructed at different locations of the shed.



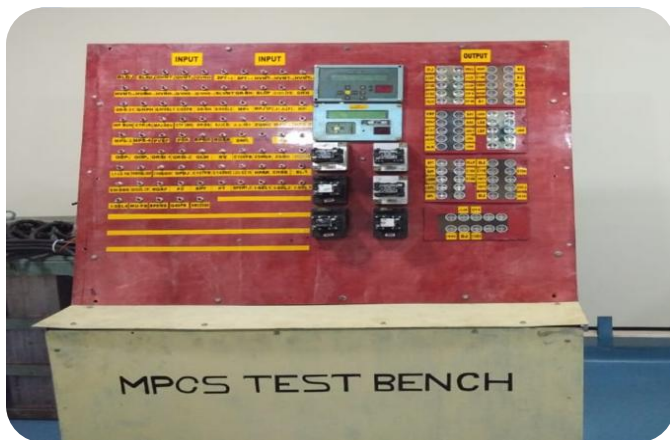
Renovation of TRS Staff Canteen

Staff canteen was renovated during COVID-19 period and after renovation the same which has been inaugurated by DRM/ASN on 26.03.21.

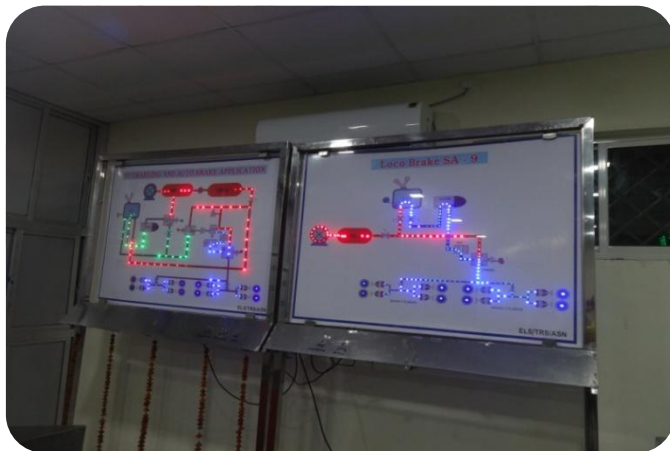


Renovation of some major sections for improved overhauling & testing facilities

Aiming to facilitate more improved overhauling and testing work, renovation of some major sections have been done providing facilities of dust free Air conditioned room , Modified Test benches, provision of earthing , Rakes, enhanced illumination etc.



Electronic Lab



M-5 Pneumatic section



E-4 SECTION



E-5 SECTION

Women's Day celebration 2021 at ELS/ASN.

International Women's day was celebrated at ELS/ASN on 08th March'21.



Annual sports meet 2021 of TRS/ASN was conducted at Divisional Loco Stadium.

Annual sports meet 2021 of TRS/ASN was conducted at Divisional Loco Stadium, Asansol.



Tree plantation programme on World Environment Day at TRS.

World Environment Day was observed at ELS & MEMU Shed through plantation of trees in the shed campus area.



Activities During COVID-19 period at ELS/ASN

Distribution of Sanitizers and masks.

This shed has prepared sanitizer at its lab as per WHO's recommendation indigenously the same along with masks were distributed not only to all the personnel (approximately 805 nos. of the shed staff) but also approximately 2000 Rly. Quarters of ASN & sanitizer has been given to other departments also.



Distribution of liquied soap & soap bars to staff.

750 ml pouched liquid soap and 125 gm soap bars have been procured and are being distributed among the shed personnel.



Thermal screening

As a preventive measure, thermal screening of the personnel and visitors of shed has been undergoing at a regular basis through thermal temperature Gun.



Foot operated water tap

Foot operated water tap along with soap dispenser was modified through In house effort for the use of shed personnel to avoid infection.



Social distancing

Social distancing norms are being maintained strictly at work premises of ELS/ASN.



Sanitization of Sections

Complete Electric Loco Shed including all sections is being disinfected at a frequent basis.



Use of Sanitizer/Liquid soap at Shed.

Sanitizer/Liquid soap has been kept at PPO & all sections of ELS/ASN and it has been instructed to use these frequently to cope up with the pandemic by maintaining hygiene.



Checking of Oxygen Saturation level.

As a precautionary health checkup, measuring of oxygen saturation level & pulse of personnel through Oxy Pulse Meter is being done frequently.



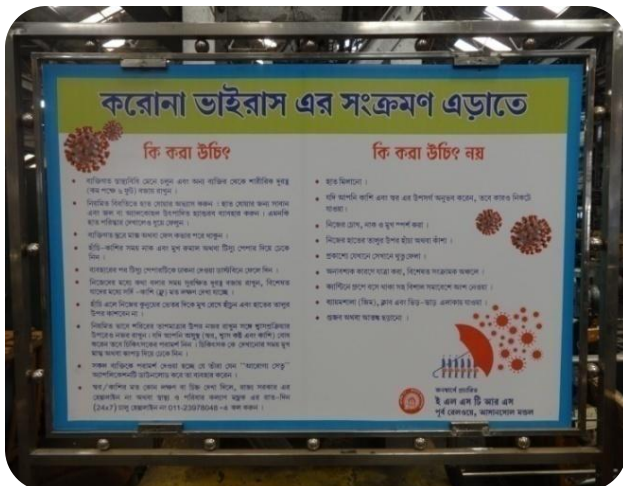
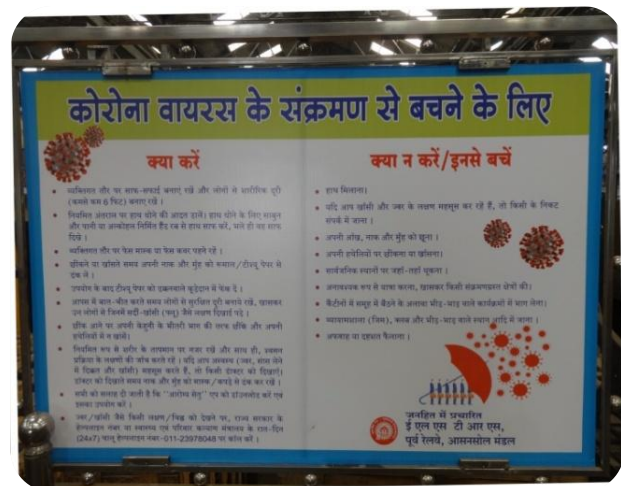
Contact free hand sanitizer dispenser unit

Contact free hand sanitizer dispenser unit (censor based) cum Automatic temperature scanner has been procured & commissioned at ELS/ASN for hand sanitization as well as temp scanning.



Bilingual Flex posters

Bilingual Flex posters containing COVID-19 protocol have been provided at the main entry point of Electric Loco Shed, Asansol.



Automatic sanitizer dispenser machines:

Four nos. automatic sanitizer dispenser machines have been commissioned at 04 different locations of ELS/ASN to cope up with the pandemic situation.



In house fabrication of contact free hand sanitizer dispenser

One no. contact free hand sanitizer dispenser has been fabricated at ELS/ASN in-house & commissioned at E-1 section.



Portable Ultra Violet Sanitization Chamber:

A portable Ultra Violet Sanitization Chamber has been developed in-house at shed to sanitize hand tools regularly being used by shed personnel to prevent contamination of droplet of Corona virus.



In house fabrication of Visitors' counting machine:

Visitors counting machine has been fabricated in house by of E-1 section to count and monitor the visitors.



Steam Inhaler machine:

A Steam inhaler machine has been fabricated indigenously by the shed personnel to keep inhale steam frequently to keep themselves healthy and immune.



Mock Fire Drill:



Mock Fire Drill at ELS/ASN

OHE counseling:



Counseling on OHE power isolation

Photographs of Electric Loco Shed; Asansol

ENTRANCE



ENTRANCE



LADIES ROOM



LADIES ROOM



AUXILIARY SECTION AREA



AUXILIARY SECTION AREA



AUXILIARY PARK



AUXILIARY PARK



WHEEL PARK



STAFF CORNER



M-4 & MILLWRIGHT SECTION AREA



M-4 & MILLWRIGHT SECTION AREA



SHED EXTENSION WORK



SHED EXTENSION WORK



CAPITAL STORE BUILDING



CAPITAL STORE BUILDING

