

ACHIEVEMENT OF ELECTRICAL(G)

April 2021 to March 2022

- 68 nos. SLRs of Parcel Expresses have been maintained for this year (Up to 31.10.2021)
- 45 nos. OMS Special have been maintained for this year. (Up to 31.10.2021)
- 01 nos. RDSO Special have been maintained for this year. (Up to 31.10.2021)
- 16 nos. Election Special have been maintained for this year. (Up to 31.10.2021)
- 08 nos. Light Goods Special have been maintained for this year. (Up to 31.10.2021)
- Total 15,45,680 KWh Solar Energy has been generated from total 3090 KWp grid connected roof top solar plant over Howrah division during period from 27.03.2021 to 22.10.2021. (Cumulative since DOC – 6359367 KWh).
- 62 nos. door key arrangement switching equipment have been provided outside the individual rooms of ORH at Old and New Howrah Station Complex.
- 27 nos. staff quarters have been rewired at Howrah, Bandel ,Barddhaman and Katwa colony.
- 186 nos. SMC (Sheet Molded Compound) junction box have been installed at station platform to avoid ingress of water / moisture to the electrical switches / MCB.
- 55 nos. smart energy meter have been installed and commissioned in staff quarter at Howrah area for taking meter reading through blue tooth / LPRF technology.

December 2021:

- Cylinder less fire suppression system has been introduced on trial basis to protect the pane of AC coaches from fire for which no additional space for storage for fire extinguisher is required. The system has been provided in power panel of 4 nos. AC coaches at Tikiapara Coaching depot and one LT distribution panel at DRM/HWH's office building.



- 32 nos. power cars have been provided with fire balls to comply the RDSO/Railway Board's Guideline for fire protection system of power car.



- 1,98,023 KWh Solar Energy has been generated from total 3090 KWp on grid roof top/shed top solar plant over Howrah division during period from 27.11.2021 to 24.12.2021 (Cumulative in 2021-2022 :19,82,631 KWh) (Cumulative since DOC : 67,96,318 KWh).

- 1000 nos. 20-watt LED batten have been installed and commissioned in PF sheds and station premises of five stations (Azimganj Jn., Bishnupriya, Nabawip Dham, Pubasthali & Salar) in NDAE-AZ section to improve the lux level in line with airport standard.



- 24 nos. 90-watt LED streetlight in open platform and 22 nos. 90-watt LED streetlight in new children park & new Jogger's park have been fitted at Nabadwip Dham station to improve the lux level in line with airport standard and better illumination for good aesthetic look.



- 30 nos. 36-watt LED recess mounted light, 34 nos. LED bollard fitting, 20 nos. LED flood light and 10 nos. 90-watt LED streetlight fittings have been installed in Railway Institute at Azimganj Jn. Station.



- One High Mast Tower with 6 nos. 300-watt LED flood light fittings has been installed in circulating area of Katwa station to improve the lux level.

- One 5 KWp on grid solar plant with automatic robotic cleaner has been installed and commissioned in shed top of PF No.1 at Azimganj Jn. Station on 29.12.2021.



- Illumination done in new Children Park and surrounding area of Azimganj Jn. by providing 4 nos. 5 m height conical pole with 90-watt LED streetlight.
- 300 s. ft LED signage board has been installed at AZ, KGLE, SALE, KWAE & NDAE stations 55 nos. staff quarter at Azimganj, 40 nos. staff quarter at Katwa and 02 nos. staff quarter at Nabadwip Dham Station have been rewired.
- 7 nos. prepaid meter have been installed and commissioned in vending stalls at AZ, KWAE & NDAE stations.
- Improvement of illumination by installation of 90-watt LED streetlight on pole in 3 nos.LC gates (23/A, 22/3 & 12) in BDC-KWAE-AZ section has been done.
- One AMF (Auto Mains Failure) panel of rating 125 KVA has been installed for auto operation of 125 KVA Kirloskar make DG Set at Azimganj Jn. Sub- station.

January 2022

Installation of Grid connected Roof top Solar Plant

35 KWp on Grid Shed Top Solar Plant has been installed and commissioned during this month. 30 KWp Solar Plant has been installed at PF 2&3 of Azimganj Jn. (AZ) station on 29.01.2022. 5 KWp on grid roof top solar plant has been re-commissioned on 19.01.2022 at Gangatikuri (GGLE) station after receiving the Solar PV module only from S&T department for feeding generated solar power to **25 KV OHE through Auxiliary Transformer**. By these commissioning, Revenue to the tune of **Rs.25000/- (approximately)** is being earned per month.



Solar Plant at Azimganj



Solar Plant Gangatikuri



**Robotic cleaning at
Azimganj Solar Plant**

Increase in Revenue due to fitment of one LSLRD in place of LWLRRM

One LSLRD has been introduced **replacing one LWLRRM** in each rakes of 13005 / 13006 HWH-ASR Mail .This will lead to increase the earring of Revenue due to Passenger / Luggage booking. This has the potential of earning of Revenue to the tune of **Rs.40000/- per day** (approximately).

Standardization of locations as well as fitment of Fireballs

All in service **Power Cars and Pantry cars** have been provided with fire balls to comply the RDSO/Railway Board's Guideline for fire protection system of power car and pantry car. Locational drawing has been standardized, duly approved by PHOD level and fitment of Fireballs have been done accordingly.



Renovation of Tripti Canteen with decorative LED fittings

Relocated and renovated "**Tripti Canteen**" has been provided with decorative LED fittings to enhance its aesthetic look.



Fitment of AMF (Auto Main Failure) Panel for DG set

- 2 nos. AMF Panel (Auto Mains Failure) for 250 KVA DG sets at Barddhaman, Pakur sub-stn and 1 no. AMF Panel for 125 KVA DG set at Bolpur sub-station have been commissioned for auto operation of DG set during normal power failure / interruption period in light of giving emergency power to the system. This will release at least 6 nos. OEDs to Coaching Wing for Power Car operation which has having high demand and increasing trend.
- 200 nos. indoor LED lights (18W Retrofit-100 nos. & 18W Batten-100 nos.), 50 nos. 25W LED streetlights, 6 nos. 90W LED streetlights and 4 nos. 300W LED flood lights have been provided at stations & yard under the jurisdiction of Howrah and Bandel for improvement of lux level.

Staff Amenities

- 9unit staff quarters has been fully rewired at Howrah and Dankuni colony.
- 17 nos. House Service Meters (KWh) have been replaced in Railway Staff Quarters over Howrah Division.
- 8 nos. 3-phase and 9 nos. 1-phase prepaid energy meter have been commissioned in vending stall at Howrah and Bandel stations.
- Electrification of ground floor of TT Rest Room at PF No.1 of Howrah old station complex has been completed by providing 60 nos. Indoor LED batten and 60 nos. AC ceiling fans.
- 102 nos. unauthorized tapping from over headline have been disconnected over Howrah Division.

February 2022

Passenger Amenities :

- One passenger Escalator in PF 2&3 at Nabadwip Dham station has been commissioned on 07.02.2022.
- Two 10 capacity Passenger Lifts, first one on PF 1&2 and second one on PF 3&4 at Seoraphuli (SHE) station has been commissioned on 24.02.2022.



Installation of Grid connected Roof top Solar Plant

- 30 KWp on grid shed top solar plant has been installed and commissioned on 03.02.2022 at Azimganj Jn.(AZ) station PF no.4 & 6 and connected to normal power supply of WBSEDCL for full utilization of solar energy.
(Unit generated for the period from 03.02.2022 to 28.02.2022 is 2288 KWh)

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Improvement of illumination :

- One High Mast Tower complete with 8 nos. 300-watt LED flood light in each tower at Tarakeswar goods yard has been commissioned on 10.02.2022.
- Two High Mast Tower complete with 8 nos. 300-watt LED flood light in each tower at Dankuni goods yard have been commissioned on 28.02.2022
- 700 nos. 20-watt LED batten light fittings have been provided at Purbasthali and Salar station to improve the lux level in line with airport standard illumination
- 200 nos. 20-watt LED batten light fittings have been provided at Chuchura station to improve the lux level in line with airport standard illumination.

Fitment of AMF (Auto Mai Failure) Panel for DG set :

- Two nos. AMF Panel (Auto Main Failure) for 250 KVA and 125 KVA DG sets at Pakur sub-station have been commissioned for auto operation of DG set during normal power failure /interruption period considering giving emergency power to the system. This will release at least 6 nos. OEDs to Coaching wing for power car operation which has having high demand and increasing trend.
- Data feeding in Coaching Maintenance Management System (CMMS) portal has been stated in 2 major depots, viz. Tikiapara and Sorting Yard Coaching Complex.

March 2022

Installation of Escalators at Station:

- 2 nos. passenger lifts at Nabadwip Dham Station PF 1 and PF 4 have been commissioned on 17.03.2022 and 29.03.2022 respectively.
- 2 nos. passenger lifts at Liluah Station PF 1&2 and PF 3&4 have been commissioned on 21.03.2022 and 22.03.2022 respectively.
- 2 nos. passenger escalator at Katwa Station PF 1&1A and PF 7 have been commissioned on 22.03.2022 and 25.03.2022 respectively.
- 1 no. passenger escalator at Azimganj Jn. Station PF 1 (Outside) has been commissioned on 28.03.2022.

Installation of Smart Meter

- 23 nos. single phase prepaid energy meter of rating 10-30 A, 240 Volt, 50 HZ (HWH - 8 nos. BDC – 01 no. BWN – 04 nos. AZ – 10 nos.) and one three phase CT operated prepaid energy meter have been installed and commissioned at vending stall.

Improvement of illumination at station

- 1000 nos. 20-watt LED batten light fittings (CNS - 850 nos. & CGR - 150 nos.) have been commissioned at Chuchura and Chandannagar station.
- 12 nos. electric poles complete with 9-Watt LED streetlight fittings have been installed and commissioned at approach road area of Colvin Court/ Howrah colony area

Fitment of AMF (Auto Mai Failure) Panel for DG set

- One no. AMF Panel (Auto Main Failure) for 62.5 KVA DG set at Nabadwipdham sub-station has been commissioned for auto operation of DG set during normal power failure /interruption period in light of giving emergency power to the system. This will release at least 3 nos. OEDs to Coaching wing for power car operation which has having high demand and increasing trend.



Installation of Grid connected Roof top Solar Plant

- Total 70 KWp on grid roof top /PF shed top solar plant has been commissioned at 7 stations (Purbasthali, Dainhat, Bazarsau, Chowrigacha, Karnasubarna, Khagraghat Road and Lalbag Court)

Development of Eco-friendly Filter Cleaning Arrangement

One Eco-friendly Filter Cleaning Arrangement has been developed with Departmental resource at Tikiapara which will clean the Filters with minimum dust mixing in environment. This will enhance the cooling impact of AC coaches as well as environmental pollution will be controlled.

