



Leaders speak....



Dear Gepdecians,

A vision statement defines what an organization wants to accomplish over time and how its business can make things different through its purpose and activities. It provides the outside world with some insight about organizational goals.

To ensure that our vision accurately reflects true objectives and as business and economic climate has evolved a lot, we felt the need to revisit and revised our Vision. I feel delighted to share the new version of the same with you. I feel delighted to share the same with you.

Our new vision, ***To enrich lives through Innovations & smart technologies***, clearly articulates what we want to do in future. Giving back to society through creating value has always been our motto. Innovation has always been encouraged and appreciated in Gepdec and we look forward to such technological initiatives that can lighten up lives of others.

Like the Vision, Mission also holds pivotal place in guiding the organization. Mission communicates the organization's reason for being, and how it aims to serve its key stakeholders. Gepdec has recreated its mission as following:

- **Strive to deliver World class Modern Infrastructure by adopting Innovation and Digitization**
- **To make a meaningful difference to Customers, Employees, Society, and all Stakeholders**
- **Inculcate culture of Green, Healthy and Safe work environment**
- **To build multiskilled and dynamic Team of Professionals**

I strongly believe that together we can achieve our goals and turn our Vision into reality.

**Best Wishes!!**

Rajeev Sharma

## Operation's Update

By: Mr. Satyendra Sharma

Dear Team,

Another quarter has gone and during that slowly we have started building the foundation of a great organization. Apart from regular business, the last quarter was totally focussed on Process Improvement. Processes are the foundation in which organizations run. They define how certain tasks are done.

Process improvement can enable organizations to make small, incremental changes that provide greater value in the long run. Keeping this in mind this quarter we emphasized more on improving our EHS & Storage process. With great effort and efficiency, the teams have improvised both the processes and will be shared by respective heads in this edition.

This improvement in processes and tireless effect from the team has resulted in 100% structural erection work without any missing member at Punjab site

My heartiest congratulations to Punjab Team for this impressive work.



Another initiative that has started reaping result is sharing of lesson learnt from completed projects. The lesson learnt shared from Kerpa and Jasidih-Dumka project has enabled smooth path for our future success. All of us will learn from these lessons and will ensure that these are implemented in our future projects. This will benefit in improving quality work and completion of project within budget and time.

## Process Improvement: Store

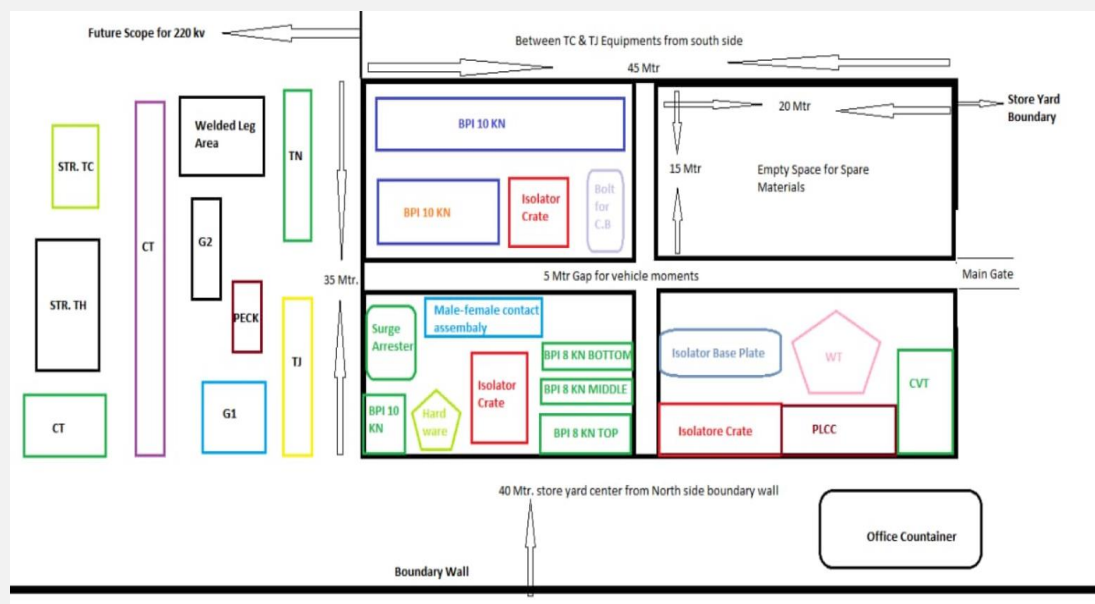
In our zeal to make store function more effective we introduced the following practices to our Punjab & Jaunpur sites. The objective was majorly to minimize wastage.

**Transportation detail shared with team on same day** to align the required resources with better planning to safe handling and storage too.

**MIS for Site:** A rigorous MIS system introduced for Summary of Invoices - Supplied material, Project Value, Storage expenses, No of Raised GRN. Stock Report in line with BBU. MIR – Tracker of each item inventory receipt against – BBU, PO/WO, Consumable or Imprest. COMM. Invoice, Storage Expenses, Assets etc.

**Circulation of GRN Chain mail on same or maximum by next day receipt of material** facilitates notifying the concerned and in easy tracking of material.

**Material Storage Layout:** keeps the tracking of material / equipment at the time of execution or installation. It saved the two most valuable things, Time & Cost.







(Storage layout at site)

**Material Signage & Identification** to keep the visibility of material/Equipment to user end at site.



**Sharing of store's activity** on daily bases on groups.

**Sound Visible inspection of material** before starting the unloading Operations. Raising the Concern with respective vendor Or Transporter thru multiple mode reduces the loss.

LR NO.	LR DT.	VENDOR INVOICE/DC NO.	VEHICLE NO.	DATE VEHICLE REACHED AT SITE	DATE VEHICLE RELEISED FROM SITE	Noted Observation	Packing Type	Pictures
13118	23.05.20	72	UP-15ET-2403	25.05.20	25.05.20	Packing noted Disturbed from Its Origin of one PKGS	MS	
13115	25.05.20	73	DL-1GC-0644	28.05.20	29.05.20	Packing noted Disturbed from its Origin of one PKGS	Wooden	
13126	28.05.20	83	UP-78CT-7699	30.05.20	30.05.20	Packing noted Disturbed from Its Origin of one PKGS	MS	
13132	01.06.20	94	HR38X 5934	06.06.20	08.06.20	Packing noted Disturbed from Its Origin of one PKGS	MS	

**Packing list generation** with appropriate information - Sl. No., Contents within Pkg is an effective way to keep the control on tracking, Verification & mishandling etc.

By taking these small systematic steps we were able to streamline the storage process in Punjab and Jaunpur and we are very confident that the same will be replicated in all other sites very soon.

Giresh Kumar

Manager- Store



## Process Improvement: EHS

In previous addition, our Director Mr. Santosh Sharma shared his views on how important EHS policy is for the organization. With rolling out the EHS policy he made it very clear that safe work processes are our priority, and we will go extra mile to achieve the same. As a team we are trying hard to imbibe the same in our work culture.

To achieve the results, this quarter was for continuous implementation of High standards of EHS across all sites and as outcome we have successfully clocked **123930 safe manhours** since April,2020.

Few initiatives undertaken this quarter are:

- Identification of Unsafe act / Condition on regular basis from sites. For low potential hazard, we rectify it immediately at site and proceed the work.
- For observed high potential hazard, we have implemented “Work stoppage notice” with phrase – “STOP, Control the hazard, Restart the work”
- Benchmarking the EHS performance of all projects through IM-20-A “EHS assessment score” on monthly basis.

## Way ahead

- We want to be more focused towards Engineering control of hazards.
- Digitalization of all EHS functions through EHS mobile application.
- ISO 45001: 2018 Certification form certification body of global reputes.

With continuous support from the team and guidance from the leadership we will be surely able to achieve best safe practices at our workplace.

Shreyans Modi

Manager- EHS

**SAVE EARTH AND ENVIRONMENT: by reducing Cement and Water in Construction Industries which is the most economy building Industry**

by: Alok Dixit

In India 0.93 kg of CO<sub>2</sub> is emitted in the production of one kg of cement. In the financial year 2009-10 India produces 200 million tonnes of cement. In the production of this cement 186 million tonnes of CO<sub>2</sub> was emitted in the atmosphere during financial year of 2009-10.

The availability of water in India per person per year in 1950 was 5177 cum. In the year 2009 it is reducing to 1700 cum.

If 50 million tonnes cement in making concrete uses water reducers 7500000 tonnes of cement can be saved. 3750000 kl of potable water will be saved and the saving of Rs. 3300 crores per year to construction industry. This amount is worked out after adjusting the cost of water reducers. Less cement used means less cement required to be produce by the cement factories resulting 6975000 tonnes of CO<sub>2</sub> will be prevented to be emitted to the atmosphere. These are worked out with an average saving of 15% cement and 15% water.

CO<sub>2</sub> emission is word problem, but for India in addition to CO<sub>2</sub> it has problems of Air, Water, Soil, Food and Noise pollutions. Less densely populated countries may cope with these problems but for India it is of the top concern. The population figures of 2009 are, India 350 person per sq.km, China 132 person per sq.km and USA only 34 persons per sq.km. The figures of 2006 CO<sub>2</sub> emissions are USA 658.60 tonnes per sq.km, China 611.76 tonnes per sq.km and India 459.35 tonnes per sq.km.

Moreover, we can save the construction cost also, by using fly ash and admixtures to replace cement and water quantity (Water Cement Ratio), which are the major factors to achieve required strength of concrete.

**Therefore, everyone should contribute his or her efforts to save the environment from pollution. Those involve in the construction activities can contribute their share by proper design of concrete Mixes.**

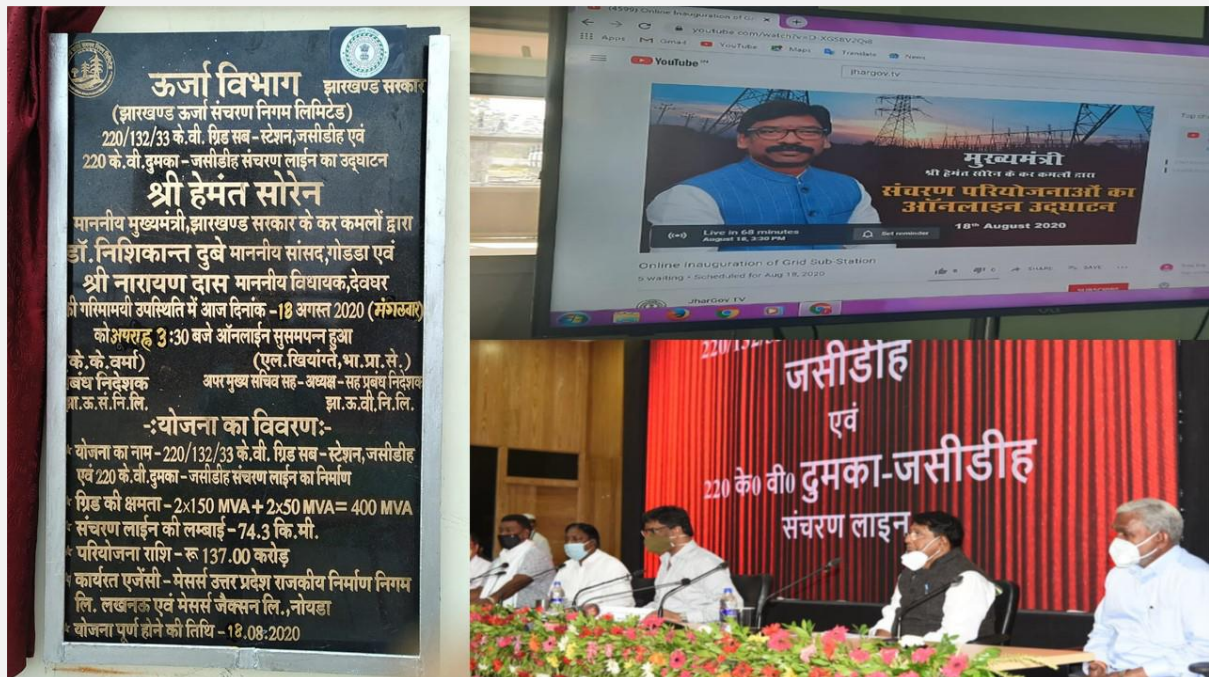
**We are highlighting some best illustrated practice of design mix, by the following examples. However above M:30 its mandatory to use mix design, but we can use mix design for any grade of concrete to clean the environment by reducing CO<sub>2</sub>.**



### MIX DESIGN DETAILS

1	Grad of Concrete	:	M-30
2	Cement	:	Three mixes are to be designed
			<b>MIX-A</b> With PPC (Fly ash based) conforming to IS:1489-part-I-1991. 7 days strength 38.5 N/mm <sup>2</sup> . Specific Gravity: 3.00
			<b>MIX-B</b> With OPC-43- Grade conforming to IS: 8112-1989. 7 days strength 40.7 n/mm <sup>2</sup> . Specific Gravity: 3.15
			<b>MIX-C</b> With OPC of Mix-B and Fly ash conforming to IS:3812 (Part-I)-2003 Specific Gravity: 2.25
			<b>Note:</b> Requirements of all the three mixes are the same. Fine Aggregate, Coarse Aggregate and normal Super plasticizer are the same for all the three mixes.
3	Fly ash replacement	:	30% Fly ash is required to be replaced with the total cementitious materials.
4	Maximum nominal size of aggregates	:	20 mm Crushed aggregate
5	Fine aggregate	:	River sand of Zone-II as per IS:383-1970
6	Minimum cement content	:	320 kg/m <sup>3</sup> including Fly ash
7	Maximum free W/C Ratio	:	0.45
8	Workability	:	50 mm slump
10	Method of placing	:	Site mixing
11	Degree of supervision	:	Good
12	Maximum of cement content (Fly ash not included)	:	450 kg/m <sup>3</sup>
13	Chemical admixture	:	Super plasticizer conforming to IS:9103-1999. With the given requirements and materials, the manufacturer of Normal Super plasticizer recommends dosages of 17 gm per kg of OPC, which will reduce 24% of water without loss of workability. For fly ash included cement dosages will be required to be adjusted by experience/ trials.

## Achievement of Quarter-2



### Inauguration of Jasidih - Dumka substation

**Owner:** Jharkhand Urja Sancharan Nigam Limited

**Work:** Design, engineering, construction, testing and commissioning of 220/132/33kV Grid Substation along with 2 nos. 150MVA transformer and 02 nos. 50MVA transformer at Jasidih and 04 nos. 220kv bay extension at Madanpur Dumma

**Capacity:** 220/132/33kV

**Location:** Jasidih & Dumka

#### Major achievements:

1. TOC of dumka received & Jasidih under progress
2. 2 nos. 150mva transformer in charged for Jasidih
3. 01 nos. 50mva transformer in charges for Jasidih
4. All the equipment's of Jasidih are in charged from 10.08.2020
5. All works completed in Jasidih only punch points are in process.

**Let us make it a habit!!!**



2020 born Gepdecians (till September) ...

2020 BORN GEPDECANS  
.....till September



 Ranjit Singh- HO	 Amit Kumar- HO	 Prasun- Jaunpur	 Sushant- NIT-68
 Shreyans Modi-HO	 Nidhi-HO	 Shubham Tomar-HO	 Rashmi Ranjan - SAIL