

## PUNJAB PWD (B&R) Digital Dashboard

UNLEASHING THE POWER OF TECHNOLOGY IN BUILDING PUNJAB AS ONE OF THE LEADING STATES

IN THIS ISSUE

VOL. 2



**Capt. Amarinder Singh**  
Chief Minister, Punjab



**Sh. Vijay Inder Singla**  
Public Works Minister

### Punjab GIS

(Punjab Roads GIS Portal, Punjab Sadak Sewa App Launched on 08 Oct 2018)

A GIS platform consisting of digitized roads of the entire State was formally launched by the Public Works Minister, Sh. Vijay Inder Singla ji on 08<sup>th</sup> Oct, 2018. The Punjab GIS Portal alongwith Punjab Sadak Sewa Mobile App has been designed to deliver and implement various initiatives relating road infrastructure in a more effective, efficient and prompt manner. The Department has developed the Punjab Roads GIS Portal with the help of the National Informatics Centre, wherein details of all Roads in Punjab, pertaining to NH, SH, MDR & ODR, Link Roads have been made available.

The Project aims to digitize approx. 72000 Kms of roads of the State along with linking of various attributes of the roads, such as Crust thickness, Berms LHS RHS, Soil type, etc, which help in planning & taking proactive measures for sustainable development in the State.

Further, the Punjab Roads GIS Portal also allows the Department users to plan, draw and finalize the roads on the GIS enabled map.

The Punjab Sadak Sewa (PSS) mobile App has been designed to capture feedbacks regarding the road conditions from the citizens. The idea is to create a proactive mechanism for the Department to take up quick measures for upgradation and repair of roads in the State.

The salient features of the Punjab Roads GIS portal are as under:

- Digitization of Plan Roads (NH, SH,MDR & ODR) with Geo tagging of attributes of Roads, Bridges & Junctions and PMGSY Roads covering DRRP & CN.
- Future Planning & Designing & creation of Roads
- Seamless Import/ Export of Digital information
- Integration of Spatial Data with MIS data.
- View & Analysis of Road Infrastructure i.e. NH, SH, MDR, ODR & Link Roads
- Data input & validation at Field Level

State Govt. has planned to use Punjab Roads GIS for other Depts. to create an enterprise-wide platform for capturing of asset information using GIS.

### DIGITAL Punjab

- GIS - launch
- Asset Information System
- Legal Module (PWDIMS)
- Upcoming Projects
- CM Dashboard

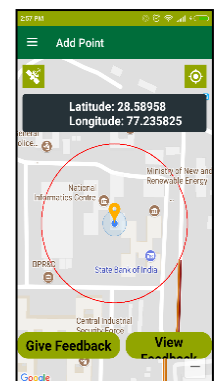


**Sh. Hussan Lal, IAS**  
Secretary Public Works

**URL to access PUNJAB GIS**  
<http://punjabroadsqis.gov.in>



**Punjab Sadak Sewa (PSS) App** is available at [Google Play](#)



Launch Ceremony of Punjab Roads GIS on 08<sup>th</sup> Oct, 2018 by Public Works Minister

**PWD-B&R marching digitally for making PUNJAB – the most promising State**

## Asset Management

The aim is to capture the asset information of Roads, Bridges & Buildings in a structured manner for which the department has created and published an online application module in PWDIMS system. There are three main processes to an asset management exercise:

1. Assess the current condition of the asset.
2. Establish what level of service to achieve from each road. This will depend on road type and its level of use.
3. Devise an optimized plan to achieve objectives and maximize the asset value, using the most cost-effective method possible.

The information pertaining to the assets have been published under this module on PWDIMS, which is available to the respective users for updation & viewing:-

### A) Road infrastructure

Under this information pertaining to National Highways (NH), State Highways (SH), Major District Roads (MDR) & Other District roads(ODR) has been captured along with the jurisdiction control of the various offices under which the roads fall.

### B) Buildings

Public Works Department aims to significantly improve their ability to conduct, track, and maintain valuable building inventory through Asset management system. It will facilitate a predictive and preventive maintenance approach through building inventory.

### C) Bridges

The Bridge management is a term which covers all the activities carried out at various stages of the Bridges life cycle in order to keep it safe and serviceable throughout its life span. The Bridge inventory has prompted us to adopt a new approach in managing the existing bridges stock in an attempt to extend the service life of these bridges along with maintaining a complete track of the bridge assets in the State

### D) IT Equipment –

The complete details of the IT Equipment Procured under various project heads and installed at various locations /offices of the department have been captured and is available online. The IT inventory information includes the date of purchase along with the allocation details.

The IT asset information has been tagged employee wise where upon a single click it can be tracked as to how many IT assets have been allocated to a particular employee of PWD B&R.

Item No	Description	Date of Purchase	Location	Employee
1001	HP LaserJet P1102	15/03/2018	Office 101	Mr. A. Singh
1002	HP LaserJet P1102	15/03/2018	Office 101	Mr. B. Singh
1003	HP LaserJet P1102	15/03/2018	Office 101	Mr. C. Singh

Road No	Name	Type	Status	Location
101	National Highway 152	NH	Open	Amritsar
102	State Highway 101	SH	Open	Amritsar
103	Major District Road 101	MDR	Open	Amritsar

Building No	Name	Type	Status	Location
101	Public Works Department	Office	Open	Amritsar
102	Public Works Department	Office	Open	Amritsar
103	Public Works Department	Office	Open	Amritsar

Bridge No	Name	Type	Status	Location
101	Amritsar Bridge	Concrete	Open	Amritsar
102	Amritsar Bridge	Concrete	Open	Amritsar
103	Amritsar Bridge	Concrete	Open	Amritsar

## Legal Module - PWDIMS

An online Court case management system has been developed which caters to the legal case monitoring and management for PWD B&R. A complete end to end case history right from the Defense Sanction stage is maintained in the system. The system is capable of generating online alerts and prompts for case coming up for hearing 15 days prior.

## CM Dashboard

An online real time information has been made available on the CM Dashboard portal by way of integrating data/information using web service method from PWD Punjab website. The status of road projects (scheme-wise) and building projects (category-wise) is constantly updated on a monthly basis and the same is made available on the CM dashboard portal.



View of the CM Dashboard on <http://pb.cmdashboard.nic.in>

## Upcoming Projects

### 1. Enlistment of Contractors

The purpose of enlistment is to have a ready list of experienced, suitable and competent contractors for works of PWD B&R so, as to minimize requirement of verification of credentials of intending contractor at the time of individual tenders of works.

### 2. Online Updation of Employee Transfer

An online mechanism is being devised, to update the latest transfers of employees of PWD B&R. This module is being developed under the PWD Punjab Website and information pertaining to all the latest and updated transfer posting is done using this module. The data will get published automatically on the PWD Punjab Website.

URL-

<http://www.pwdpunjab.gov.in/UploadDocs/Employees%20Posting/Employees%20Posting.pdf>

### 3. Online Reservation of PWD Rest Houses

An online Application on the lines of Punjab Bhawan Booking is to be adopted for getting the bookings of PWD Event/Rest Houses. The functional aspect of the application has been finalized and shortly the application will be made available through PWD Punjab Website. Which will allow the users to both the facility online as per the availability.

### 4. Online Tracking of Property Access

An Online tool to monitor, manage & track the information w.r.t. the grant of access to various properties (marriage places, fuel stations, private properties) along the State roads has been developed and published under the assets management module pertaining to the State roads for grant of access and to further monitor the depository fees both one time and recurring. The system is capacity of giving alerts from the access renewal one month prior so that appropriate action is initiated.

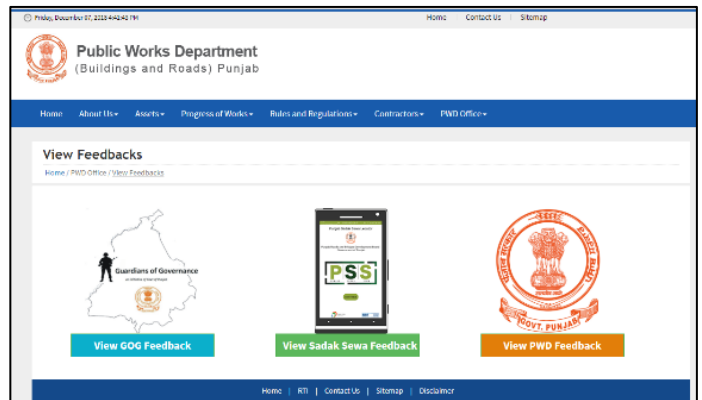
## Rules & Regulations –PWD Punjab Website

The Punjab PWD Website has a dedicated section where the latest and updated Acts/Rules, Circulars, Policies and Instructions/Govt. Orders have been made available.

Each of these sections have been categorically grouped and information has been published as per relevance and admissibility. All updated and latest information has been made available on the PWD Punjab Website.

URL – <http://www.pwdpunjab.gov.in/Acts.aspx>

## Feedback mechanisms for prompt Service



At present, there are three mediums to obtain feedbacks regarding the various works of the department.

- **PSS (Punjab Sadak Sewa)**

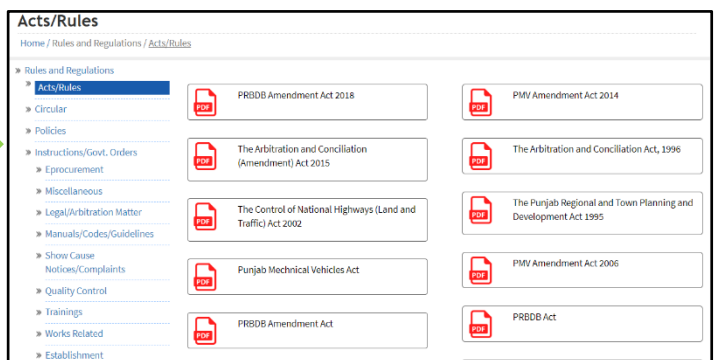
The PSS has been designed to capture the feedbacks pertaining to the road network of the State. The App works in synchronization with Punjab GIS Portal. The same is available for download on play store and the feedback are captured on web dashboard, which is checked regularly.

- **GoG (Guardians of Governance)**

The mobile application has been designed to submit feedbacks by the Guardians (Ex-Serviceman appointed by the Government). The feedback are recorded on a periodic basis and are submitted by the Guardians using the GOG Mobile App, which is further shared with the respective Officer for a quick resolution.

- **PB-PGRAMS**

The Public Grievances Portal setup by the State Government is a platform to receive requests/complaints/feedback from the Citizens. The feedbacks received from this portal are shared with the concerned Officer for quick and prompt resolution.



**PWD-B&R creating effective, efficient means for Work Execution**

## Star Performers of PWD - B&R



**Er. Rakesh Garg**  
**Executive Engineer (EE)**  
**Construction Division, Ludhiana**  
 Contributed and led his team in preparation of Estimates and use of PWDIMS System



**Er. Gurmeet Singh Sarao**  
**Executive Engineer (EE)**  
**PWD-B&R HQ**  
 He has been spearheading the initiative of implementation of PWDIMS in HQ Office of PWD-B&R.



**Er. Manoj Garg**  
**Sub-Divisional Engineer (SDE)**  
**PWD B&R**  
 Contributed towards the updation of the CSR and supported in implementation of the PWDIMS System.



**Parveen Gautam**  
**System Administrator, PRBDB**  
 He has been instrumental in getting the Asset Management and Helpdesk for PWDIMS system



**Ikwinder Kaur**  
**Assistant Manager (IT), PRBDB**  
 She has been supporting in creation/updation of databases for Asset Management and Supported the overall implementation of PWDIMS.

### FOR MORE INFORMATION

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### Helpdesk

- A dedicated helpdesk has been established in PRBDB, SCO 60-61, Phase 2, Mohali office for addressing issues & concerns of the PWD Users relating to all types of Hardware, & Software Issues under the PWDIMS Project.
- The users of PWD-B&R can raise tickets based upon the type of the issues, which are handled by Technical Experts for a quick and a prompt resolution.
- The Help desk is also supported through telephonic support where the users of PWD-B&R can call and get their issues registered.

**Dial PWD Helpdesk**  
**0172 - 5134608**  
 or raise a ticket at  
<http://202.164.54.243:8081>  
**for Hardware & Software Support**

