



भारतीय अन्तर्देशीय जलमार्ग प्राधिकरण

(पोत परिवहन मंत्रालय, भारत सरकार)

मुख्यालय : ए-13, सेक्टर-1, नौएडा-201 301, (उ० प्र०)

INLAND WATERWAYS AUTHORITY OF INDIA

(Ministry of Shipping, Govt. of India)

Head Office : A-13, Sector-1, Noida-201 301 (U.P.)

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F. No. IWAI/HY/E-INICIATIVE/2020-21-Part(2)

Dated: 18th May, 2021

CIRCULAR

Sub.: Standard Operating Procedure (SOP) for PANI Portal - reg.

The Competent Authority has approved the Standard Operating Procedure (SOP) for PANI Portal. A copy of the same is enclosed herewith for information and implementation by all the concerned officials.

(A. Selvakumar)

Director (Hy. & Vig.)

Email Id: aselvakumar.iwai@nic.in

Phone No. 0120-2544040

Encl:- As stated above

Copy to (By E-Mail):

- i. Chief Engineer (Tech)/ Chief Engineer-P.M (JMVP)/ Hydrographic Chief/ Dy. Secretary, (P & C and IT)/ CAO (I/C)/ Director (M)/ Director (NER)/ Director (Tr. & L)/ Director (Tech.)/ Deputy Director (NER)/ Deputy Director (Tech), / Deputy Director & R.E., / A.S (A&R), A.S (Estt.), IWAI, Noida.
- ii. Director, IWAI, Kolkata/ Kochi/ Guwahati, Vijayawada
- iii. Dy. Director, IWAI, Patna
- iv. Office In-Charge, NINI, Patna
- v. Sub Office Varanasi, Allahabad, Sahibganj, Bhubaneshwar, Dibrugarh, Dhubri.
- vi. IT Cell – For uploading on IWAI Website
- vii. Hindi Cell – For Hindi Translation
- viii. Master Copy / Office Copy

Copy for Information to (By E-Mail):

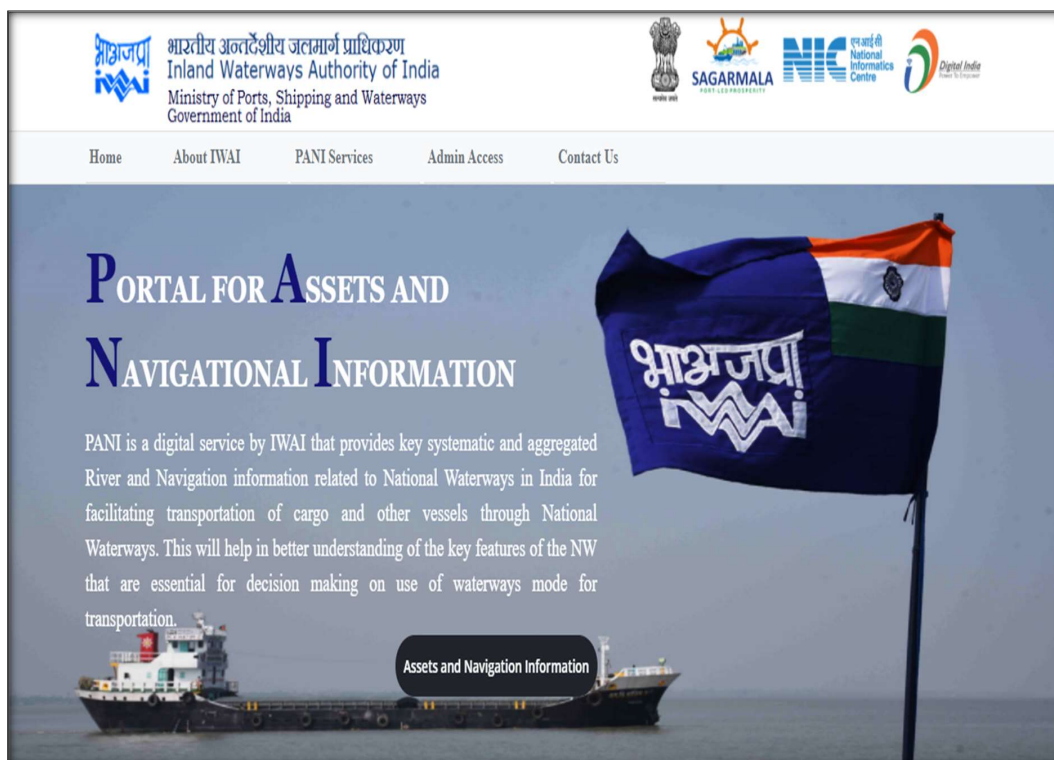
P.P.S./P.S./P.A. to Chairperson/ Vice-Chairman/ Member (Finance)/ Member (Technical)/ Member (Tr. & L)/, Secretary, IWAI, Noida.



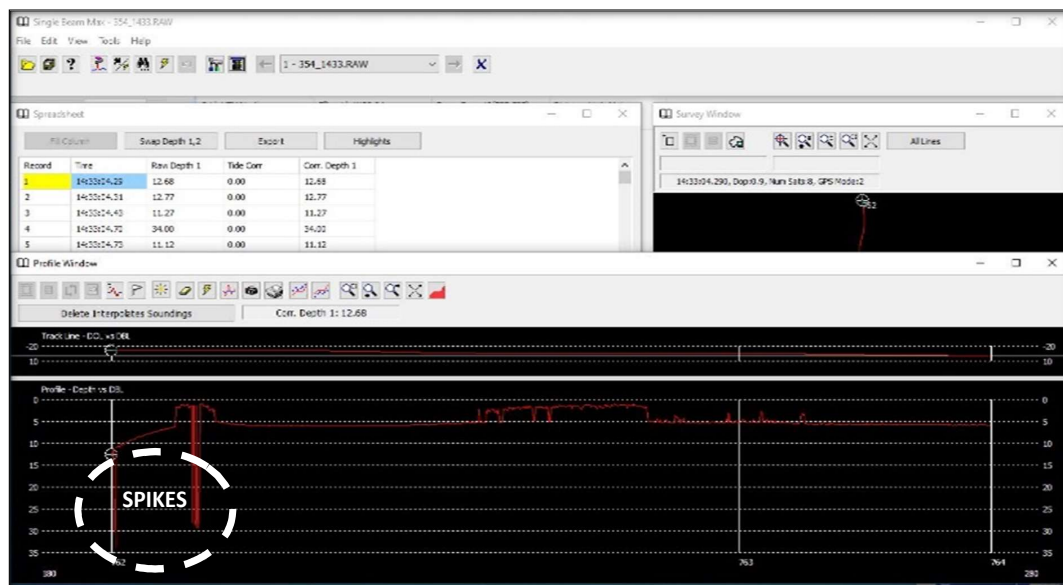
Standard Operating Procedure

For

PANI Portal



- For Navigation related information, designated Hydrographic Surveyors after Hydrographic-Survey/Thalweg-Survey shall sort out survey data and process the data including removal of Navigation spikes and Sounding spikes, if any. The processed data to be sorted with 25 mtr spacing/interval.



The screenshot displays the 'Sort-64' software interface. The 'Type' section shows 'Radius' selected with a value of 25.00. The 'Mode' section shows 'Sort with Partitions' selected. The 'Output' section shows 'File' selected.

Type

- ☒ Radius 25.00
- ☐ DX 25.00
- ☐ DY 25.00
- ☐ DZ 25.00
- ☐ 3-Dimensional Sort

Mode

- ☐ Sort with no Priority (No CHN)
- ☐ Sort with Priority
- ☐ Sort with CHN Priority
- ☒ Sort with Partitions

Output

- ☒ File
- ☐ One Output File per Input File
- ☐ Golden Soundings
- Target Depth/Elevation: 0.00
- ☐ Save rejected Data
- Rejected Data Filename:

Sort Status

	Pass 1	Pass 2
Points Read		
Points Saved		
Points Rejected		
Minimum		
Maximum		
Percent		

Depth Input

- ☒ Depth 1
- ☐ Depth 2

Depth Mode

- ☒ Depth
- ☐ Elevation
- ☐ Convert to Final Elevation

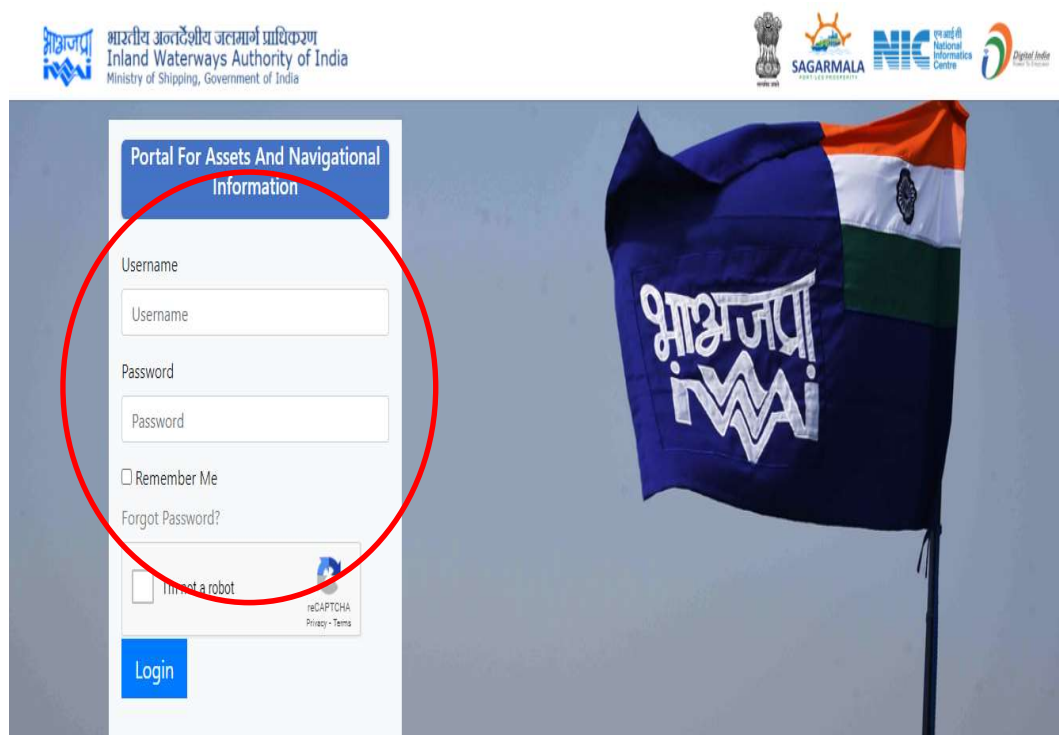
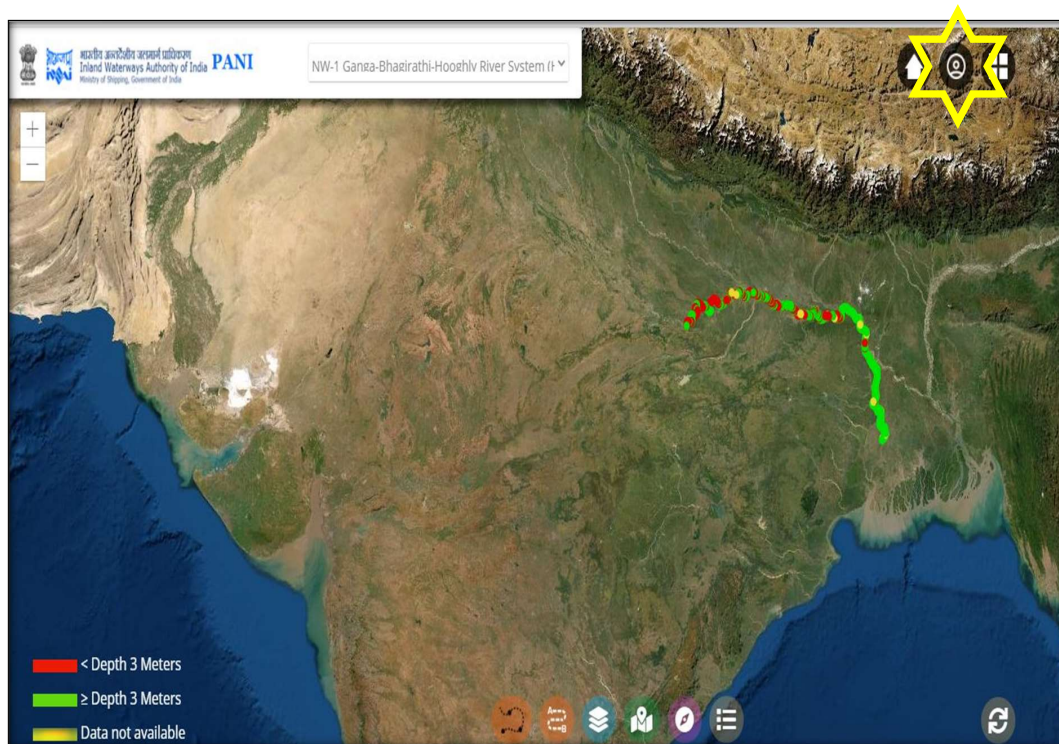
☐ Negate Output Z Value

Sort

Note: File naming of .xyz file should contain (FN num – Month- Year- from place – to – to place). Example – 01 FN MAR 2021 PAT TO BAR. No special character should be present in the file name. Any other file name is strictly not permitted. The abbreviations of places are the first 03 letters of the Place name.

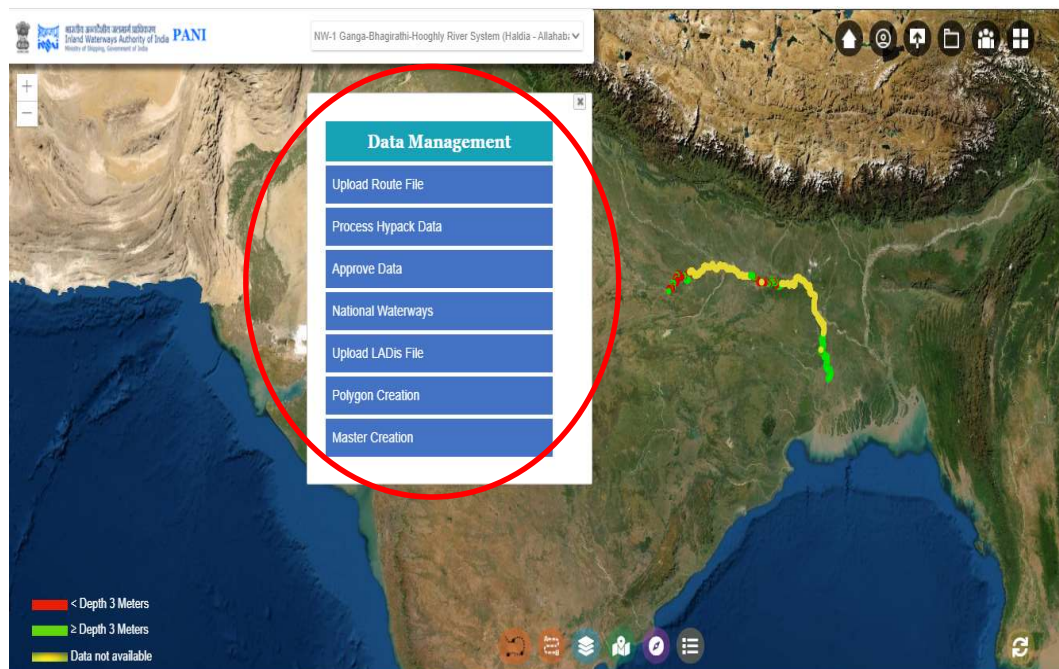
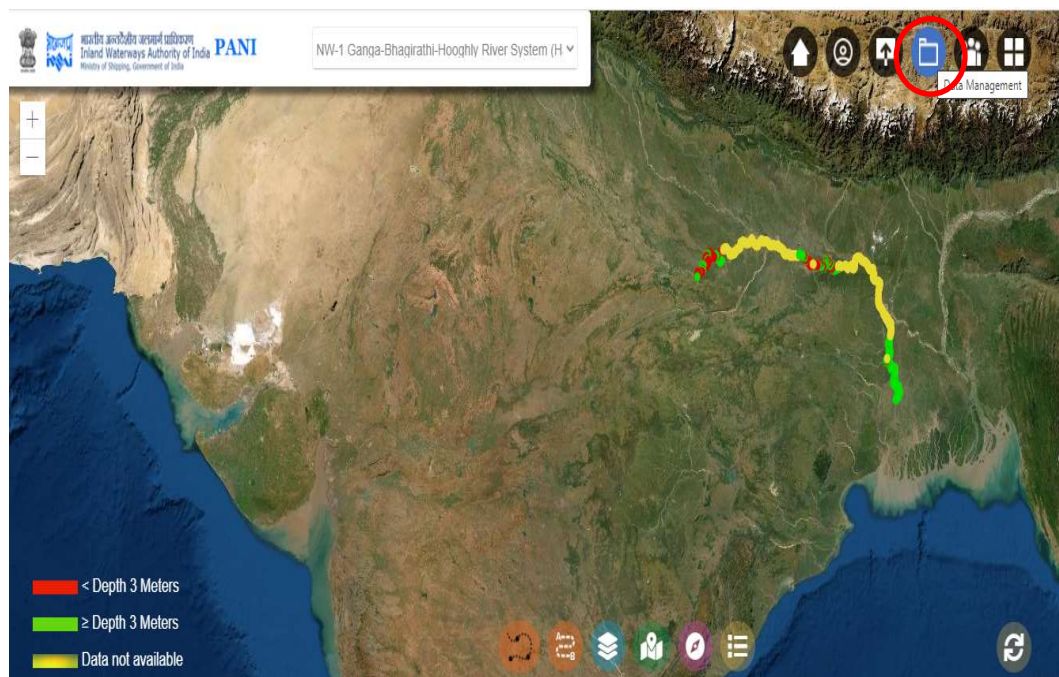
2. (i) Uploading Navigational data on PANI portal

a) Admin Login the portal, as starred/indicated below:



Note: Please follow the video tutorials before uploading data on PANI portal.

- b) After Login in, tap on **Data Management** as below, to upload Navigational data in the Portal, which will lead to the options of Data Management.



- c) Opting for **Upload Route File** shall open new pop-up window with provisions of selecting the appropriate National Waterway, correct UTM zone and Year-Month-Date as per fortnight is to be choose/filled precisely at the time of uploading.

UPLOADING HYPACK DATA ON PANI

https://pani.iwai.nic.in/rms/homenew#

Upload Route File

National Waterway:

Zone:

Date :

Upload File : No file chosen

SELECT THE APPROPRIATE WATERWAY

< Depth 3 Meters
≥ Depth 3 Meters
Data not available

UPLOADING HYPACK DATA ON PANI

https://pani.iwai.nic.in/rms/homenew#

Upload Route File

National Waterway:

Zone:

Date :

UTM ZONE NUMBER TO BE SELECTED CORRECTLY

< Depth 3 Meters
≥ Depth 3 Meters
Data not available

UPLOADING HYPACK DATA ON PANI

https://pani.iwai.nic.in/rms/homenew#

Upload Route File

National Waterway:

Zone:

Date :

Upload File : No file chosen

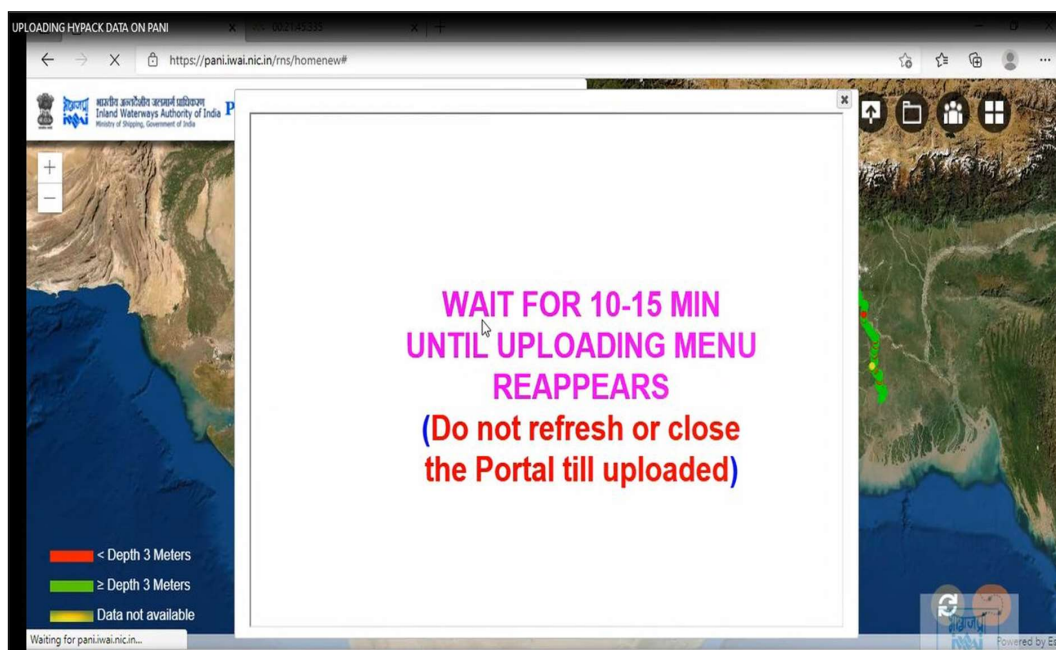
YEAR-MONTH-DATE TO BE ENTERED CORRECTLY AS PER SURVEYED DATA OF PARTICULAR FORTNIGHT

March 2021

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

< Depth 3 Meters
≥ Depth 3 Meters
Data not available

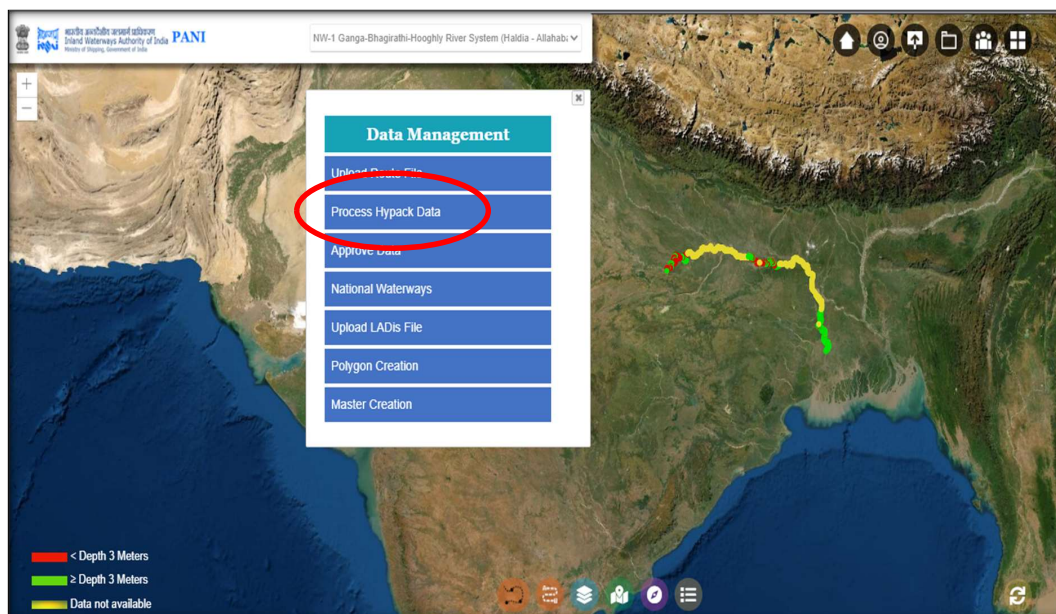
- d) After choosing file from **Choose File**, the system requires default time to upload the data in the Portal.



- e) Uploaded data should be cross-checked by the Director at the respective Regional Offices at the initial stage during compilation and shall also be checked at the viewing Pan after uploading of data in the portal.
- f) Data uploading on PANI portal should be completed within 03 days of the survey and completion report is to be made available to the Hydrographic Chief, IWAI Noida, on the same day.
- g) For RIS stations, any change in operator and contact nos. are to be intimated to Hydrographic Chief, IWAI Noida.

2. (ii) Process Hypack Data

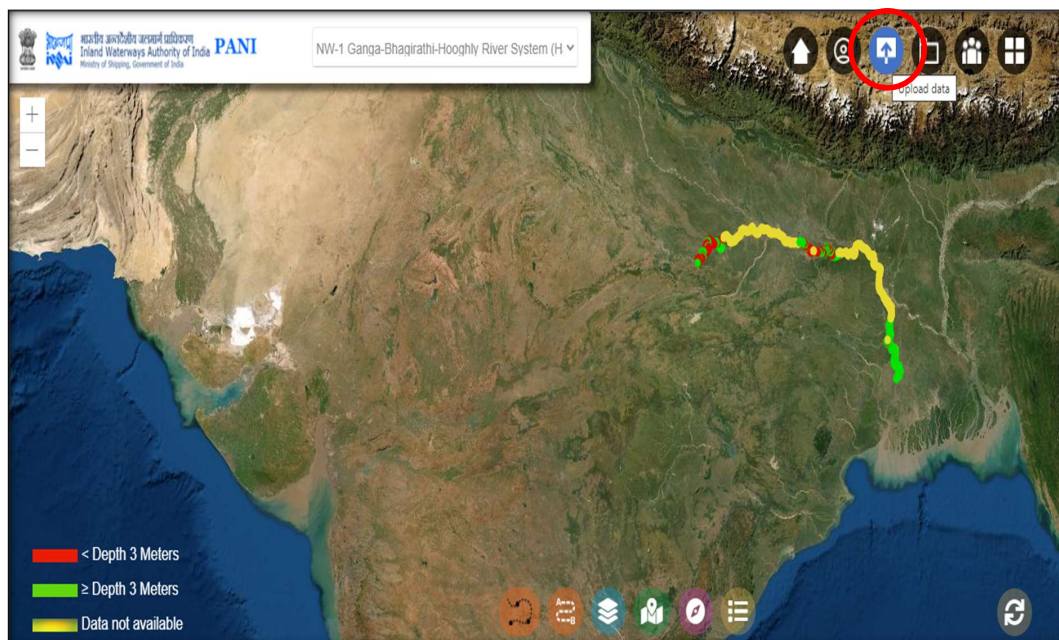
This tab shows the processed Hypack data uploaded in the Portal.

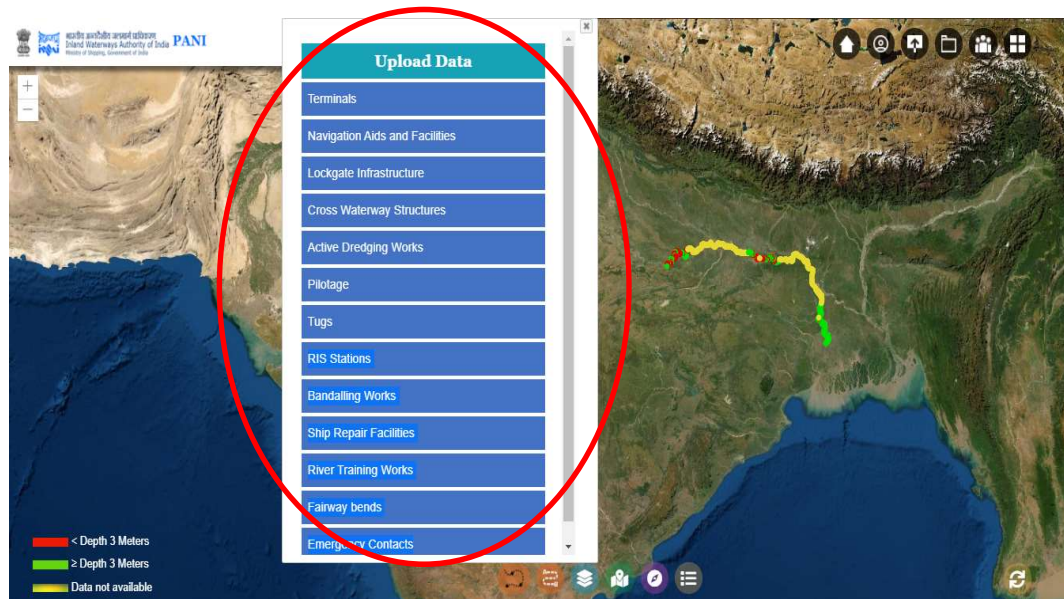


Hypack File Details							
Files Uploaded							
ID	Month	FN	Filename	Data For	Uploaded By	Date	Action
18482	April	1	1st FN TS KAHALGAON SULTANGANJ APRIL 2021(final).xyz	NW1 2021 April 1 temp	Poojan Kumar	2021-04-16	Delete
18481	April	1	1st FN TS PATNA BARH APRIL 2021(Final).xyz	NW1 2021 April 1 temp	Poojan Kumar	2021-04-16	Delete
18480	April	1	1st FN TS Rout 25 MMT Ramnagar to Chunar April 2021.xyz	NW1 2021 April 1 temp	Amit Das	2021-04-16	Delete
18479	April	1	MBS-SUL-MAHE 2nd_WEEK_April-2021 @17m.xyz	NW1 2021 April 1	Poojan Kumar	2021-04-16	Delete

3. Uploading of data and information related to National Waterways Assets and Navigational information in the portal:

- a) **Upload Data** tab provides workspace for uploading or input of data related to Terminals, Navigation Aids & Facilities, Lockgate Infrastructure, Cross Waterway Structure, Active Dredging Works, Pilotage, Tugs, RIS Stations, Badaling Works, Ship Repair Facilities, River Training Works, Fairway Bends and Emergency contacts.





b) For example, the input form for terminal (s) is opened in a pop-up window as follows, on opting for **Terminal** tab

- c) Similarly, all other information and data related to other requisite assets shall be uploaded under their specific tabs, viz.

National Waterways

Search:

Sr No	Name	Latitude	Longitude	Status	Action
1	NW-86 Rupnarayan River	22.3268	87.9487	Active	
2	NW-1 Ganga-Bhagirathi-Hooghly River System (Haldia - Allahabad)	25.2545	86.7364	Active	
3	NW-2 Brahmaputra River (Dhubri - Sadiya)	26.616	92.8081	Active	
4	NW-3 West Coast Canal	9.52518	76.359	Active	
5	NW-97 Sunderbans Waterway	21.9204	88.697	Active	
6	NW- IBP Route no 9 & 10	23.7889	76.4122	Active	
7	NW-9 Alappuzha- Kottayam - Athirampuzha Canal	9.48856	76.4122	Active	
8	NW-8 Alappuzha- Changanassery Canal	9.49939	76.4712	Active	
9	NW-4	24.0009	82.1779	Active	

National Waterways

National Waterway Name: *

Latitude :
Longitude:

Pilotage

National Waterway*

Chainage From*

Chainage To*

Location:

RO/SO:

No. of pilots:

Contact information:

Mandatory IWAI Pilots*

Cross Waterway Structure

National Waterway*
---Select NW---

Sub Asset Type
---Select Sub Asset---
Add New

Name*
Type of facility with name

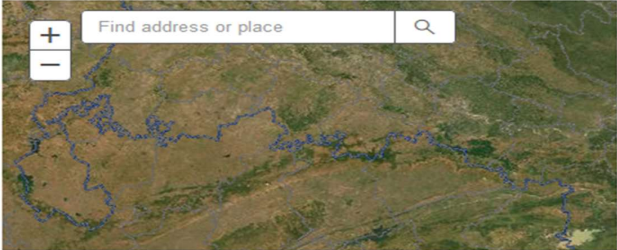
Chainage*
---Select Chainage---

Location*
Location

+

-

Find address or place



Latitude :

Longitude:

Vertical Clearance(Meters):
Vertical Clearance

Horizontal Clearance(Meters):
Horizontal Clearance

Sub Asset Type
---Select Sub Asset---
Add New

Name*
Type of facility with name

Chainage*
---Select Chainage---

Location*
Location

Type*
---Select Type---

Submit

+

-

Find address or place



Latitude :

Longitude:

Vertical Clearance(Meters):
Vertical Clearance

Horizontal Clearance(Meters):
Horizontal Clearance

Concerned Govt./ Pvt. Agency
Concerned Govt./ Pvt. Agei

RO/SO:
---Select Office---

Lockgate Infrastructure

National Waterway*
---Select NW---

Sub Asset Type
---Select Sub Asset---
Add New

Chainage*
---Select From---

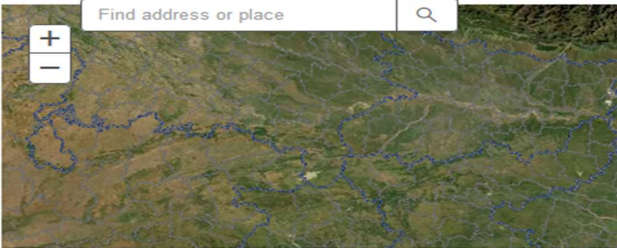
Operator's Details:
---Select Operator---
Add New

Location*
Location

+

-

Find address or place



Latitude :

Longitude:

Dimension LxBxH (in Rmt):

Vessel Size Limitations:

Chainage*

---Select From---

Operator's Details:

---Select Operator---

Add New

Location*

Location

Operation Timings From:

00:00

Emergency POC

Emergency POC

Latitude :

Longitude:

Dimension LxBxH (in Rmt.):

Dimension LxBxH:

Vessel Size Limitations:

Vessel Size Limitations

Operation Timings To

00:00

Avg Time Required To Pass (Minutes):

00:00

Submit

Active Dredging works

National Waterway*

---Select NW---

Chainage From*

---Select From---

Chainage To*

---Select To---

Target LAD (Meters):

Target LAD

Submit

Find address or place

Details of Dredging Contractor:

Details of Dredging Contractor

Tugs

National Waterway *

---Select NW---

Chainage From*

---Select From---

Chainage To*

---Select To---

Location:

Location

Vessel Operator Details:

Vessel operator details

Find address or place

Details of Tugs:

Details of Tugs

Contact Information:

Contact Information

Submit

River Information System Station

National Waterway*

---Select NW---

Sub Asset Type

---Select Sub Asset---

Add New

Chainage*

---Select Chainage---

RIS Station with type:

RIS Station with type

Coverage (Radius) (Kms)*

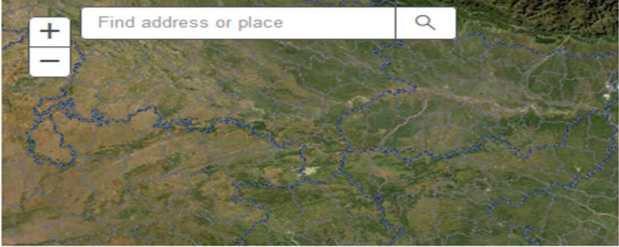
Coverage (Radius)

Other Facilities Available:

Find address or place

+

-



Latitude :

Longitude:

Operator Details:

Operator Details

Operator Contact:

Operator Contact

Remarks:

Image:

Bandalling works

National Waterway*

---Select NW---

Chainage From*

---Select From---

Chainage To*

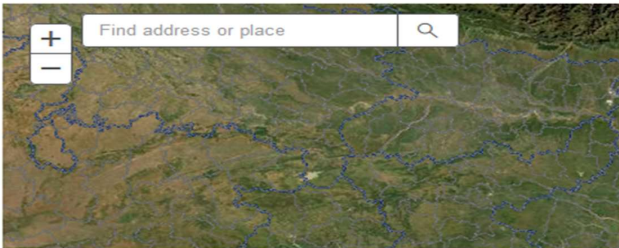
---Select To---

Remarks:

Find address or place

+

-



Ship Repair Facilities

National Waterway*

---Select NW---

Sub Asset Type

---Select Sub Asset---

Add New

Type of Facility:*

---Select Facility Type---

Location:

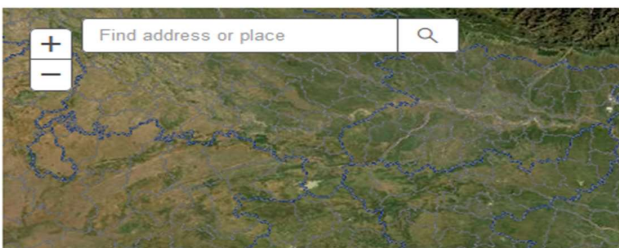
Location

Chainage*

Find address or place

+

-



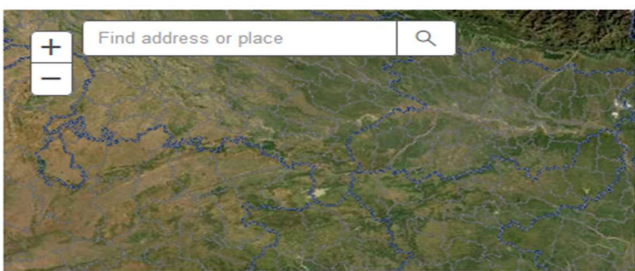
Latitude :

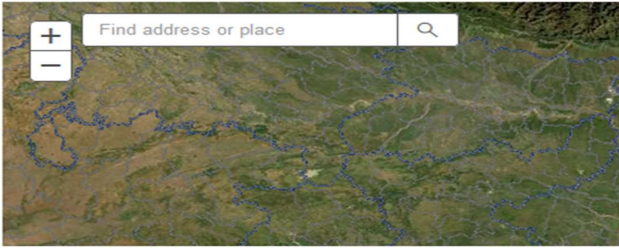
Longitude:

Contact Details:

Charges (INR):

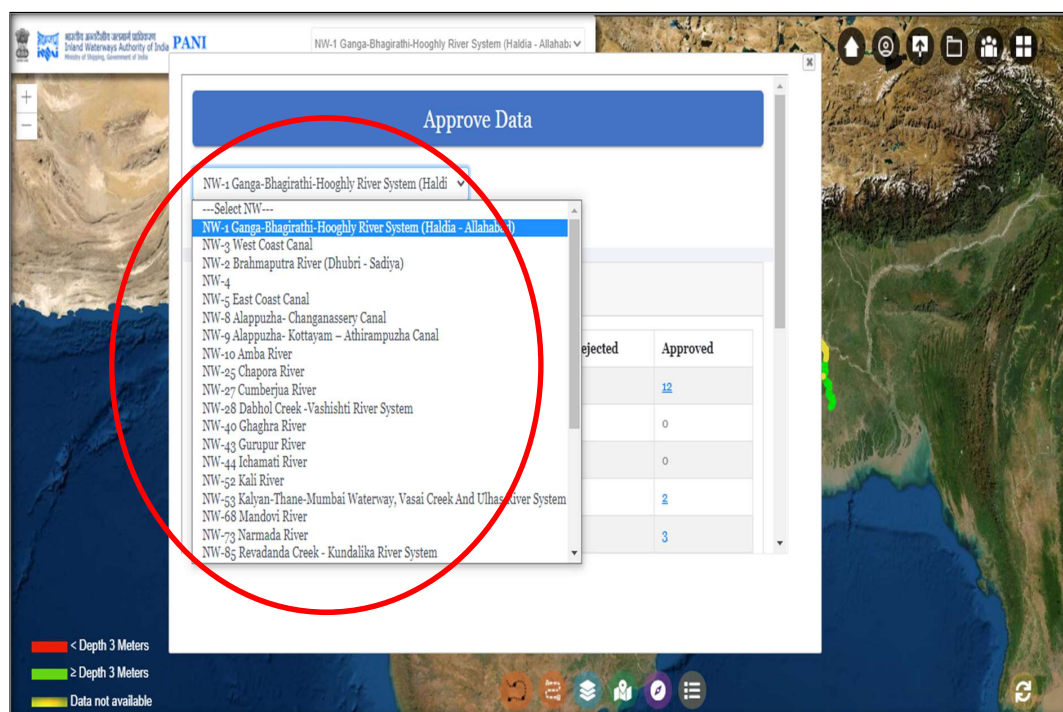
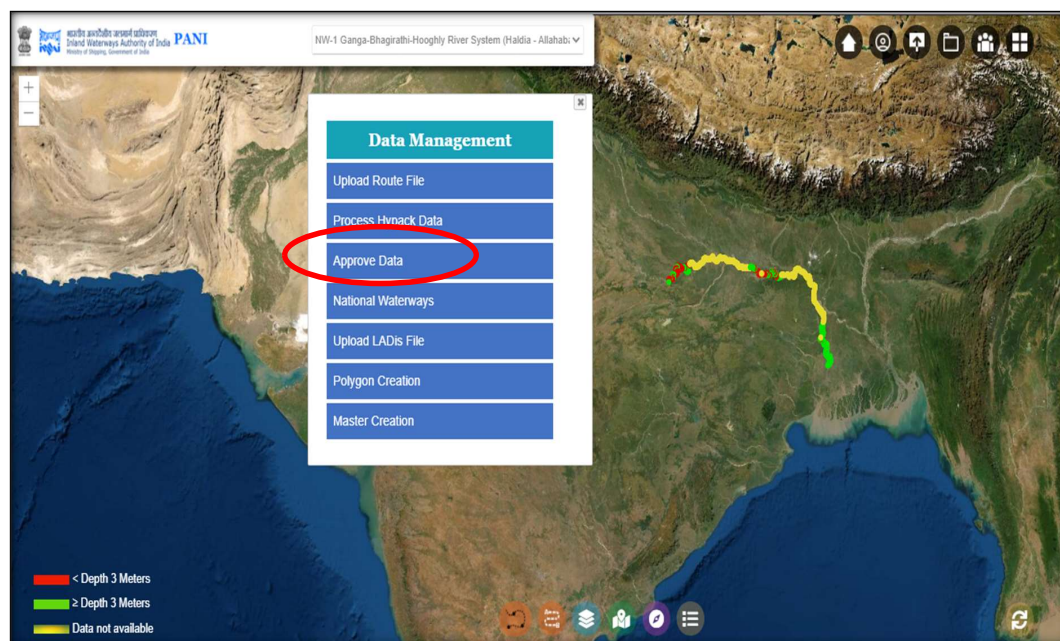
Sub Asset Type		
---Select Sub Asset---		
Add New		
Type of Facility:*		
---Select Facility Type---		
Location:	Latitude :	Longitude:
Location		
Chainage*	Contact Details:	Charges (INR):
---Select Chainage---	Contact Details	Charges
Remark:	Other facilities available:	Operator Name:
Remark	Other facilities available	---Select Operator---
Submit		Add New

Fairway Bends	
National Waterway*	
---Select NW---	
Chainage From*	
---Select From---	
Chainage To*	
---Select To---	
Location of Bends:	Radius of Bends (Meters):
Location of Bends:	
Submit	

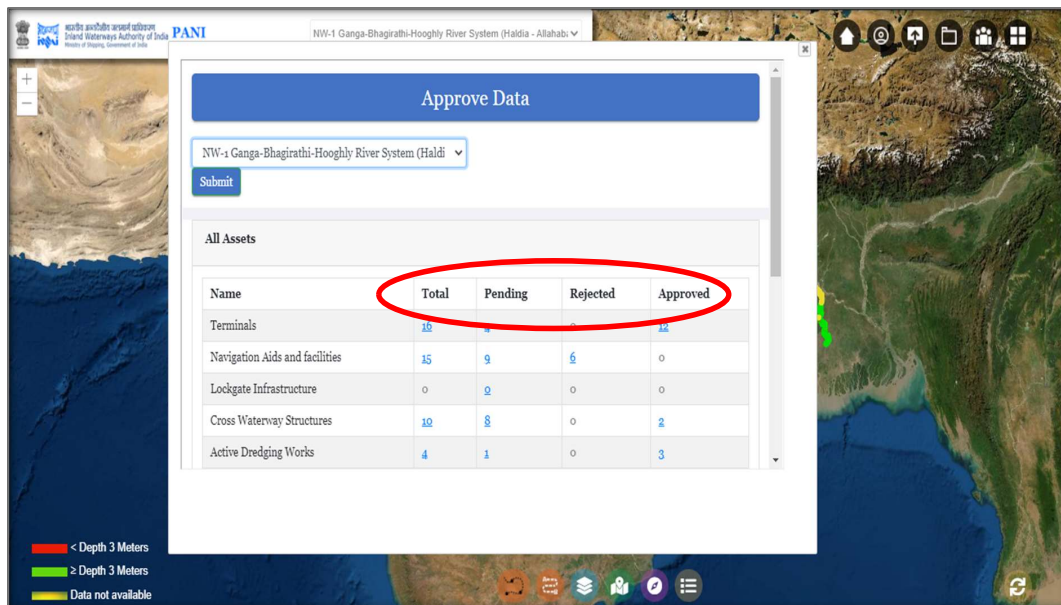
Emergency Contacts		
National Waterway*		
---Select NW---		
Particulars*		
---Select Particulars---		
Chainage From*		
---Select From---		
Chainage To*	Concerned Authority:	Contact Person:
---Select To---	Concerned Authority	Contact Person
Contact Details:	Remarks:	
Contact Details	Remarks	

4. Approval of Data

- a) After uploading of Assets and Navigation Data in the Portal as above, the data should be approved by the Admin under the tab **Approve Data** under different National Waterways, prior to display in the Public domain.



- b) The admin can also check the data related to Terminals, Navigation Aids & Facilities, Lockgate Infrastructure, Cross Waterway Structure, etc. in terms of Total, Pending, Rejected & Approved in nos. in the particular National Waterway.



5. To improve the visibility and ease of doing business, the portal has been designed to provide different genres of Maps as shown below:

