



Government of West Bengal
Irrigation & Waterways Department
Jalasampad Bhavan, 3rd Floor, Western Block
Bidhannagar, Salt Lake City, Kolkata 700 091

Memo No. 178/8- IFC

Dated, 25.07.2024

IW-14013(11)/20/2021-SECTION(IW)

From: The Joint Secretary
to the Govt. of West Bengal

1. The Chief Engineer (South)
Irrigation & Waterways Directorate
2. The Chief Engineer (South-West)
Irrigation & Waterways Directorate
3. The Chief Engineer (North)
Irrigation & Waterways Directorate
4. The Chief Engineer (West)
Irrigation & Waterways Directorate
5. The Chief Engineer (Design & Research)
Irrigation & Waterways Directorate
6. The Chief Engineer (North-East)
Irrigation & Waterways Directorate
7. The Chief Engineer & Project Director (WBMIFMP)
Irrigation & Waterways Directorate
8. The Chief Engineer (Teesta Barrage Project)
Irrigation & Waterways Directorate

Sub: Revision of Existing Bench Mark record based on Bench Mark record obtained from Survey of India (SOI) and measures to be taken for proper maintenance of Bench Mark Station for future use.

- Ref: 1. Memo No. 115-CI, dated 25.05.2024 of the Chief Engineer, Design & Research
2. Memo No. 2249(7)-CI, dated 29.09.2021 of the Chief Engineer, Design & Research
3. Vide Letter No. T-463/53-N(NHP), dated 13.04.2021 of the Director & Sikkim GDC, SOI

With reference to the above, the undersigned is directed to enclose herewith the copy of letter received from Survey of India vide memo under reference -3, containing the co-ordinates, heights and description of 50(fifty) nos. Hydro-met Stations in West Bengal recently finalized by SOI through survey according to new datum. The said benchmark was already circulated by the CE(D&R) vide reference-2 to all CE's under I & W Dept, with a request to circulate among all EE's cum Project Mangers of NHP engaged for RTDAS works under their respective jurisdiction to take further

necessary action for proper maintenance of all the BM's provided by SOI. These Bench Marks were provided by Survey of India for reference in all future works in West Bengal and also for assessment of flood protection related activities.

The undersigned is also directed to state that, henceforth for preparation of all design, drawing and execution of works, the new RL of Benchmark as provided by the SOI against 50(fifty) Hydro met stations should be followed in lieu of existing Benchmark. The necessary correction factors as required/applicable in respect of existing benchmark stations should be carried out by the I & WD Divisions under their respective jurisdictions in the manner stated below.

For shifting of Height Reference Datum (Z) adopting the new height reference System of Survey of India, against all RTDAS stations(AWLR,Flow Meter and ARG) and also for manual gauge fixing (new)/repair (existing) with painting and marking ,tender has already been floated from SE,IPC-II under National Hydrology Project(NHP).Now, for shifting of R.L.from the 50(fifty) SOI Bench Marks to existing BMs,other than those of RTDAS work, the necessary survey, correcting the existing Bench Marks with respect to new SOI Bench Marks and establishing Permanent Bench Marks, division wise estimates are to be submitted to the Department through respective CE's for obtaining AAFS.

After establishing new permanent Bench Marks in place of existing Bench Marks, in the manner as stated above, a division wise list of such new Bench Marks with RL value, lat-long, is to be sent to SE, Investigation & Planning Circle-I, to prepare a comprehensive inventory of Bench Marks of I & WD for circulation to all the Departments and I & W Directorate for future reference. Till the time the new Bench Marks with present RL values are to be followed in all types of scheme preparation and any kind of survey work.

It is also pertinent to mention here that in the meantime the SOI has operational zed Continuous Operating Reference Station (CORS) network across the country for more precise positioning services for any kind of Surveying and mapping activities. Already 42 nos of CORS stations, (38 nos. of CORS Stations within West Bengal and 4 nos. in Sikkim) are distributed and fully functional. These can be accessed through the Network RTK(NRTK) enabled Rovers by using the CORS services after user registration and according to subscription plan purchased by user. However, it is free for Government Departments. The details of CORS registration and Data downloading can be found at <https://cors.surveyofindia.gov.in/cors-services.php> and "<https://cors.surveyofindia.gov.in/subscription.php>".

In view of above, the undersigned is further directed to mention here that to impart necessary training on CORS/NRTK, this department has already taken up the matter with SOI for obtaining available slots and time, Chief Engineers are requested to prepare a list of trainees under their respective jurisdiction and sent it to the Director, River Research Institute for taking further necessary action in this regard.

This issues with the approval of the Additional Chief Secretary of this Department.

Encl: As stated

Sd/-

(B. Mukhopadhyay)
Joint Secretary to the
Government of West Bengal

Memo No. 178 /1(3)-IFC

Dated: 25.07.2024

Copy forwarded for information to:

1. P.S. to Hon'ble Minister-In-Charge
Irrigation & Waterways Department
2. Sr. P.A. to Additional Chief Secretary
Irrigation & Waterways Department
3. Financial Advisor
Irrigation & Waterways Department

Sd/-

(B. Mukhopadhyay)
Joint Secretary to the
Government of West Bengal

Memo No. 178 /2(1)-IFC

Dated: 25.07.2024

Copy forwarded for information to:

- ✓ 1. The Executive Engineer
DVC Study Cell, I& W Dte with a request for uploading in the Departmental Website



(B. Mukhopadhyay)
Joint Secretary to the
Government of West Bengal