



Government of West Bengal
Irrigation & Waterways Directorate
Office of the Superintending Engineer, Metropolitan Drainage Circle
Jalasampad Bhaban (2nd floor) Salt Lake , Kolkata-700091.

Memo No. 4S-1 /1340 (9)

Dated, 25th July, 2019

From: Superintending Engineer,
Metropolitan Drainage Circle, Irrigation & Waterways Directorate & Member-cum-
Convener, Departmental Unified Schedule of Rates Revision Committee

- To:
1. Chief Engineer (South)
Irrigation & Waterways Directorate
 2. Chief Engineer (West)
Irrigation & Waterways Directorate
 3. Chief Engineer (South West)
Irrigation & Waterways Directorate
 4. Chief Engineer (North)
Irrigation & Waterways Directorate
 5. Chief Engineer (Design & Research)
Irrigation & Waterways Directorate
 6. Chief Engineer
Teesta Barrage Project
Irrigation & Waterways Directorate
 7. Director of Personnel & Ex-officio Chief Engineer
Irrigation & Waterways Directorate
 8. Chief Engineer (North East)
Irrigation & Waterways Directorate
 9. Project Director & Ex-officio Chief Engineer
West Bengal Major Irrigation and Flood Management Project (WBMIFMP)
Irrigation & Waterways Directorate

Sub: 5th Addenda & Corrigenda to the Unified Schedule of Rates of I & W Department (w.e.f 25.07.2019)

Sir,

Please find enclosed herewith the 5th Addenda & Corrigenda to the Unified Schedule of Rates of I & W Department (w.e.f 25.07.2019), duly approved by the Irrigation & Waterways Department, for information and forwarding to all Superintending Engineers.

Enclo: As stated

Yours faithfully

sd/-

Superintending Engineer,
Metropolitan Drainage Circle,
Irrigation & Waterways Directorate
& Member-cum-Convener, Departmental
Unified Schedule of Rates Revision Committee

Memo No. 4S-1 /1340 (9) / 1

Dated, 25th July, 2019

Copy with the copy of enclosure submitted for favour of kind information to the Secretary to the Govt. of West Bengal, I & W Department, Chairman, Departmental Unified Schedule of Rates Revision Committee.

sd/-

Superintending Engineer,
Metropolitan Drainage Circle,
Irrigation & Waterways Directorate
& Member-cum-Convener, Departmental
Unified Schedule of Rates Revision Committee

Memo No. 4S-1 /1340 (9) / 1 / 1

Dated, 25th July, 2019

✓ Copy with copy of enclosure forwarded to the Executive Engineer, DVC Study Cell & e-Governance Cell Irrigation & Waterways Directorate

He is requested to upload this in the 'Unified Schedule of Rates' link of Departmental website
www.wbiwd.gov.in

S. Kumar 25/07/2019

Superintending Engineer,
Metropolitan Drainage Circle,
Irrigation & Waterways Directorate
& Member-cum-Convener, Departmental
Unified Schedule of Rates Revision Committee

5th ADDENDA & CORRIGENDA
TO THE UNIFIED SCHEDULE OF RATES OF IRRIGATION & WATERWAYS
DEPARTMENT BROUGHT OUT IN 19TH JANUARY 2018

A. Corrigenda

1. Sl. No.2.52 – Deleted

2. Following corrections to be made on the items as shown below:

Sl. No.	Page No.	In place of						To be read as				
		Description of Item	Unit	Present rate in the USoR (Rs.)				New Description of Item	New rate to be read as (Rs.)			
				Zone I	Zone II	Zone III	Zone IV		Zone I	Zone II	Zone III	Zone IV
2.53	C-18 & C-19	Cast-in-situ cement concrete blocks or lining units as per designed size and specification, with well graded stone metal aggregate, laid in position by casting in alternative panels or otherwise to keep a gap of 12mm between the adjacent units, over a layer of polythene sheet of thickness not less than 100µm to act as a separator between the bottom surface of the block and the filter material laid below the blocks, including dressing, ramming, shuttering, finishing the exposed surface with 1:3 cement and sand mortar, curing and filling the gaps between the adjacent units by 5.6mm down coarse aggregate to be compacted properly, with all leads and lifts including supply and carriage of all materials, complete, without the cost of filter.						Cast-in-situ cement concrete blocks or lining units as per designed section and specification, in nominal mix proportion 1:1.5:3 (corresponding to M20 Grade) with well graded 20mm down stone metal aggregate, laid in position by casting in alternative panels or otherwise to keep a gap of 12mm between the adjacent units, over a layer of polythene sheet of thickness not less than 100 µm to act as a separator between the bottom surface of the block and the sand cushion / filter material laid below the blocks, including dressing, ramming, shuttering, finishing the exposed surface by trowel without adding any additional cement and sand mortar, curing and filling the gaps between the adjacent units by 5.6mm down coarse aggregate to be compacted properly, with all leads and lifts including supply and carriage of all materials, complete, without the cost of sand cushion / filter.				

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25/08/19

Sl. No.	Page No.	In place of					To be read as					
		Description of Item	Unit	Present rate in the USoR (Rs.)				New Description of Item	New rate to be read as (Rs.)			
				Zone I	Zone II	Zone III	Zone IV		Zone I	Zone II	Zone III	Zone IV
2.53	C-18 & C-19	(The rate is exclusive of the cost of stone aggregate and its carriage upto site. Construction wing has to add the cost of same from the SoR of PW (Roads) to derive the consolidated rate. Consumption chart of the USoR may be used for assessing the quantity of coarse aggregates per cum of concrete). With stone aggregates (Pakur, North Bengal or Rajmahal varieties). a) Nominal Mix 1:3:6 with 37.5mm down coarse aggregate b) Nominal mix 1:2:4 with 20mm down coarse aggregate c) Nominal mix 1:1.5:3 with 20mm down coarse aggregate	Cum	3379.00	3305.00	3286.00	3574.00	(The rate is exclusive of the cost of stone aggregate and its carriage upto site. Construction wing has to add the cost of same from the SoR of PW (Roads) to derive the consolidated rate. Consumption chart of the USoR may be used for assessing the quantity of coarse aggregates per cum of concrete). Stone aggregates of Pakur or Rajmahal or broken stone of North Bengal varieties. <u>Note: Provisions of the latest Departmental Manual for Lining in Irrigation Canals are to be followed, wherever applicable.</u>	4696.00	4575.00	4572.00	4829.00
2.54	C-19	Precast cement concrete blocks or lining units as per designed size and specification, with well graded stone metal aggregate, including dressing, ramming, shuttering, finishing the top surface with 1:3 cement and sand mortar, curing, transporting and laying the blocks or lining units at worksite in position, over filter, layer, keeping a gap of 6mm between the adjacent units, by sue of removable plyboards						Precast cement concrete blocks or lining units as per designed section and specifications, in nominal mix proportion 1:1.5:3 (corresponding to M20 Grade) with well graded 20mm down stone metal aggregate, including dressing, ramming, shuttering, finishing the surface by trowel without adding any additional cement and sand mortar, curing, transporting and lying the blocks or lining units at worksite				

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Sl. No.	Page No.	In place of					To be read as					
		Description of Item	Unit	Present rate in the USoR (Rs.)				New Description of Item	New rate to be read as (Rs.)			
				Zone I	Zone II	Zone III	Zone IV		Zone I	Zone II	Zone III	Zone IV
2.54	C-19	<p>or non-removable thermocol boards, with all leads and lifts, including supply and carriage of all materials complete.</p> <p>(The rate is exclusive of the cost of stone aggregate and its carriage upto site. Construction wing has to add the cost of same from the SoR of PW (Roads) to derive the consolidated rate. Consumption chart of the USoR may be used for assessing the quantity of coarse aggregates per cum of concrete).</p> <p>With stone aggregate (Pakur, North Bengal or Rajmahal varieties)</p> <p>a) Nominal Mix 1:2:4 with 20mm down coarse aggregate</p> <p>b) Nominal mix 1:1.5:3 with 20mm down coarse aggregate</p>					<p>in position over sand cushion / filter layer, with cold (paper) joints between the adjacent units, having gap varying from 0 to 5mm as tolerance, with all leads and lifts, including supply and carriage of all materials complete.</p> <p>(The rate is exclusive of the cost of stone aggregate and its carriage upto site. Construction wing has to add the cost of same from the SoR of PW (Roads) to derive the consolidated rate. Consumption chart of the USoR may be used for assessing the quantity of coarse aggregates per cum of concrete).</p> <p>Stone aggregates of Pakur or Rajmahal or broken stone of North Bengal varieties.</p> <p><u>Note: Provisions of the latest Departmental Manual for Lining in Irrigation Canals are to be followed, wherever applicable.</u></p>					
			Cum	4073.00	3970.00	3966.00	4242.00					
			Cum	4819.00	4692.00	4693.00	4957.00	4761.00	4633.00	4638.00	4894.00	

3. 2.3.2.3 Specification of Cement concrete block pitching (Page B-10)

Existing provision below the heading is replaced by the following:

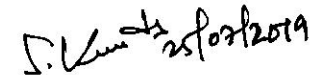
“Cement concrete blocks / lining units for (a) protection to the bank slope of irrigation canal / drainage channel to minimize seepage loss, ensure stability of slope and improve conveyance capacity, and (b) protection to the riverside slope of embankment to ensure stability and to prevent scouring or damage against wave action or high flow velocity, shall be designed as per codal provision / Departmental Manual and/or sound engineering practices, keeping in view the objective of end use and durability. Such block / lining should generally be placed over a layer of sand cushion or properly designed

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conventional or geotextile filters, to avoid possibility of failure against pore water pressure. Consideration of filter / sand cushion in case of lining in irrigation canals shall be as per Table-2 (Modified) of the Manual for Lining in Irrigation Canals (1st Amended), brought out in July 2019.

2.3.2.3.1 Precast cement concrete blocks / lining units, made in casting yards with trowel finished top surface (without adding any additional cement sand mortar for plastering), followed by curing are to be laid in position over the sand cushion / filter bed, and levelled with cold (paper) joint between adjacent panels having gap varying from 0 to 5mm as tolerance. Provisions of the lining Manual (1st Amended) shall be followed for irrigation canals.

2.3.2.3.2 Cast-in-situ cement concrete blocks / linings shall be laid, by casting in alternative panels, or otherwise, with shuttering on four sides and with a layer of thick polythene sheet at bottom (of thickness 100 μ m), to prevent clogging of filter due to intrusion of cement slurry, during casting. Side shuttering may be removed within 3 to 5 hours after casting. Gap between the adjacent blocks should be at least 12mm, to be kept preferably using removable plyboard side shutterings or thermocol boards. In case removable shutterings are used, the gaps are to be filled up and compacted by 5.6mm down coarse aggregate. Finishing the top surface by trowel (without adding any additional cement sand mortar for plastering), will be followed by curing. While finishing the top surface, care is to be taken to ensure that the gaps in between blocks are not filled up by mortar. In case of plan dimension of individual units of block / lining exceeding 4 sqm, or in case of excessive seepage observed particularly at the lower portion of the slope, causing sloughing or scouring of soil materials, 50mm dia PVC pipes, with 300mm embedment into the virgin ground and top flush with the finished surface of the block / lining may be inserted at the centre of each block / lining and the pipes may be filled up and packed by 22.4mm / 20mm down well graded coarse aggregates, to create additional device for dissipating pore water pressure, in addition to the gaps lying along four sides of such units. Rate of supply, fitting and fixing of such PVC pipes may be analyzed by the construction wing, using PWD (Sanitary & Plumbing) and PW (Roads) SoR. Provisions of the Lining Manual (1st Amended) shall be followed for irrigation canals.”

 25/07/2019

Member cum Convenor
USoR Committee
&
Superintending Engineer
Metropolitan Drainage Circle
Irrigation & Waterways Directorate