



## Government of West Bengal

Office of the Chief Engineer  
Public Health Engineering Directorate  
New Secretariat Buildings, 7<sup>th</sup> Floor  
Kolkata - 700 001 {Phone & Fax-033-22488264}  
e-mail: ce\_pwqm@wbphed.gov.in

Memo. No: 5813-5839/80/A/2013

dated, Kolkata, the 02-07-2020

To  
The Chief Engineer

\_\_\_\_\_ (All)

The Superintending Engineer

\_\_\_\_\_ (All) Circle

**Sub:** Publication of PHE Schedule of Rates

Corrigendum No.-I & Addendum No.-I along with general specifications of materials to be used for house connection of the schedule of rates of P.H.E. Dte. (Both Civil & Mechanical) has been given in the departmental web site (with effect from 02/07/2020).

This is for information and necessary action please.

*Ak.*  
CHIEF ENGINEER

Planning & Water Quality Management  
PHE Dte.

Memo No:- 5813-5839/80/A/2013

Date:- 02-07-2020

CORRIGENDUM No.-1

TO

OHR ITEMS, W.B.P.H.E.D. SCHEDULE OF RATES (CIVIL WORKS), JULY 2019

Item No.	Description of item	Unit	Rate (Rs.)				
			ZONE - I	ZONE - II	ZONE - III	ZONE - IV	ZONE - V
57	Construction of different dia Sluice valve /Air valve /Washout chamber in different sizes for village road where light traffic run and for main road where heavy traffic run as depts. approved drawing with 25cm thick brick work (1:6) over cement concrete (4:2:1) over a single B/F soling over 150mm. thick sand filling in foundation including earth work in excavation and disposal of excess earth from work site with RCC (1:1.5:3) cover slab 100mm / 150mm thick slab on top of chamber with 1% reinforcement in RCC cover slab with necessary opening for operation of valve all complete including cost of labour & materials as per Departmental Dwg. [Reinforcement type:- Other manufacturers not specified]	Each	₹ 12,649.00	₹ 11,804.00	₹ 12,055.00	₹ 11,990.00	₹ 11,835.00
e)	100mm.dia.	Each	₹ 12,649.00	₹ 11,804.00	₹ 12,055.00	₹ 11,990.00	₹ 11,835.00

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30/06/2020  
SE/WC &  
Convenor, Schedule Committee

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30-06-2020  
CHIEF ENGINEER  
Planning & Water Quality Management  
P.H.E. Dte.  
Govt. Of West Bengal

Memo No.: 5813-5839/80/A/2013

Date: 02-07-2020

CORRIGENDUM No.-1			
TO			
MAINTENANCE RELATED WORKS OF WATER SUPPLY SCHEME, W.B.P.H.E.D. SCHEDULE OF RATES (CIVIL WORKS), JULY 2019			
Sl. No.	Description Of Item	Rate	Unit

**PART - B**

10	Withdrawing and relaying of DI/CI pipes / AC pipe after excavation of earth and with the help of chain pully derrick etc. by dismantling & joining by rubber gasket joint or lead joint or flange joint and stacking the withdrawn pipes and specials at site store /road flank-godown etc. all complete in the excavated same trench & as per direction of EIC. The item includes the cost of earthwork in excavation & re-filling the trenches with the excavated earth in layers to ensure adequate compaction.		
	a) 80 mm dia to 125 mm dia	210.00	/Mtr.
	b) 150 mm dia to 200 mm dia	213.00	/Mtr.
	c) 250 mm dia to 350 mm dia	281.00	/Mtr.
11	Withdrawing of DI/CI pipes / AC pipe after excavation of earth and with the help of chain pully derrick etc. by dismantling of joining of rubber gasket joint or lead joint or flange joint and stacking the withdrawn pipes and specials at site store /road flank godown etc. all complete as per direction of EIC. The item includes the cost of earthwork in excavation & re-filling the trenches with the excavated earth in layers to ensure adequate compaction.		
	a) 80 mm to 125 mm AC/DI/CI Pipe	144.00	/Mtr.
	b) 150 mm dia to 200 mm AC/DI/CI Pipe	147.00	/Mtr.
	c) 250 mm dia to 350 mm dia DI/CI Pipe	191.00	/Mtr.

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*3d/06/2020*  
 SE, WC &  
 Convenor, Schedule Committee

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*30-02-2020*  
**CHIEF ENGINEER**  
 Planning & Water Quality Management  
 PHE Dte.  
 Govt. Of West Bengal

## GENERAL SPECIFICATIONS OF MATERIALS TO BE USED FOR HOUSE CONNECTIONS

### **Ferrule**

Gun Metal Confirming to IS 2692/1994(reaffirmed 2005) ISI Marked.

### **Non Return Valve (NRV) for connection of meter.**

Gun Metal Horizontal Non Return Valve Confirming to IS 779 ISI Marked

### **PVC Pipe & Fittings for house connection:-**

15 mm dia nominal bore PVC pipes for underground work of approved make of Schedule 80 (medium duty) conforming to ASTM D-1785 and threaded to match with GI Pipes as per IS : 1239 (Part - I).

### **HDPE Pipe for House Service Connection:**

Pipes shall be made out of HDPE raw materials, the pipes shall be conforming to IS:4984-2016, 20mm dia OD, PE-100, PN 16. (Average 15 mtrs.)

### **COMPRESSION FITTINGS FOR HDPE PIPES**

90 DEG COMPRESSION ELBOW WITH METAL INSERT (Male/Female)

90 DEG COMP ELBOW with COMPRESSION JOINT BOTH ENDS

FEMALE / MALE THREADED ADAPTER with METAL OFFTAKE

The compression fittings shall be tested as per below

Type test	Standard
Dimensions of the threads	ISO 7/1
Tightness of the joints	ISO 3458
Tightness of the joints when subjected to bending	ISO 3503
Resistance to pull-out	ISO 3501
Internal under-pressure test	ISO 3459
Long term pressure test	ISO/DIS 14236

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Planning & Water Quality Management  
PHE Dte.  
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## ADDENDUM No.-1

Section - B.6 : SMALL TUBE WELL USING WATER-JET METHOD, SCHEDULE OF RATES  
(CIVIL WORKS), JULY 2019

Item No.	Description of Items	Unit	Rate (Rs.)
1	Labour for boring tube well of required diameter by water jet system through any type of soil strata including hire and labour charges for boring pipes, scaffolding, tools and plants as necessary and taking out them and lowering pipes, strainers, blank pipe etc. and fitting and fixing the same complete including other incidental works as per direction of Engineer-in-charge. The tube well should have a minimum 50mm gap in between the outside of the tube well pipe and the bore.		
	A) 100mm x 40mm dia TW for Mark-II hand Pump		
	i) boring for 100 mm diameter top enlargement	Mtr	₹ 424.00
	ii) boring for 40 mm diameter TW		
	a) upto 150m depth	Mtr	₹ 219.00
	b) above 150m depth	Mtr	₹ 285.00
	B) 100mm x 50mm dia TW for dual use/stand-alone community supply with solar pump set		
	i) boring for 100 mm diameter top enlargement	Mtr	₹ 424.00
	ii) boring for 50 mm diameter TW		
	a) upto 150m depth	Mtr	₹ 285.00
	b) above 150m depth	Mtr	₹ 351.00
2	Mobilisation and transportation of all machinery/boring set and its accessories and others materials, etc. to the site.	LS	₹ 2,000.00
3	Cost of Development of Tubewells	LS	₹ 1,600.00
4	Supply and packing of Coarse sand	Bags	₹ 25.00
5	Installation of India Mark-II hand pump assembly completed with cylinder, connecting rod, riser pipes etc. (departmentally supply) upto on an average depth of 25 metre as per direction of EIC including carriage of materials & all other incidental charges during installation of work. Rates are inclusive of complete labour and other charges, testing the yield of TW and submission of report complete.	LS	₹ 1,195.00
6	Construction of tube well platform (Size 1.20m x 1.20m) with 75mm. thick cement concrete (6:3:1) using 20mm down jhama chips over a layer of brick flat soling including necessary earth work and ramming, 125mm x 75mm (thick) band set in cement mortar (4:1) on all sides keeping outlet for drainage, 12mm thick cement plaster (4:1) with neat cement finishing to the exposed surface including the concrete surface below ground level in the periphery of the land including 1.2 m length surface drain with necessary shuttering & curing complete in all respect with all labours & materials .	Each	₹ 3,805.00

(CIVIL WORKS), JULY 2019

Item No.	Description of Items	Unit	Rate (Rs.)
7	Supply of PVC pipes & fittings Schedule 80 (medium duty) conforming to ASTM D - 1785 and threaded to match with GI Pipes as per IS : 1239 (Part - I). A) PVC pipes a) 40mm dia b) 50mm dia c) 100mm dia B) Reducing Socket (mm X mm) a) 100 x 40 b) 100 x 50	Mtr Mtr Mtr Each Each	₹ 207.00 ₹ 282.00 ₹ 874.00 ₹ 202.00 ₹ 171.00
8	Supplying high density polythene strainer of approved make with adapter conforming to I.S. specifications. a) 40mm dia b) 50mm dia	Mtr Mtr	₹ 376.00 ₹ 532.00
9	Supplying PVC strainer of approved make with adapter conforming to I.S.12818 specifications. a) 40mm dia b) 50mm dia	Mtr Mtr	₹ 293.00 ₹ 367.00
10	Supplying, fitting and fixing steel cutter piece upto 450 mm long with sockets. a) 40mm dia b) 50mm dia	Mtr Mtr	₹ 124.00 ₹ 189.00
11	Supply and delivery of MS TW Specials (Clamp, Cap, Bail plug, Lugs, Ring etc.)	LS	₹ 1,200.00
12	Supply and delivery of India Mark-II hand pump set	Set	₹ 13,624.00

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30-06-2020  
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Planning & Water Quality Management  
PHE Dte.  
Govt. Of West Bengal



Memo No.:- 5813-5839/80/A/2013

Date:- 02-07-2020

**ADDENDUM No-1  
TO  
DIFFERENT CATEGORY PIPELINE WORKS, W.B.P.H.E.D. SCHEDULE OF RATES (CIVIL WORKS), JULY 2019**

Item No.	Description of items	Unit	Rate (Rs.)					
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV	ZONE-V	ZONE-VI
2	Supplying, laying, fitting, fixing and jointing of UPVC pipes conforming to IS:4985-2000 with latest revision and amendments, if any, with necessary UPVC/CI specials, CIDF sluice valves, as per relevant I.S. specification including labour charges for earth work in excavation in any kind of soil including mixed soil with boulder ,road sub-grade and its flanks but excluding moorum and laterite or sand stonehard arock including cutting of brick payment without damaging the existing telephone/electrical cable line etc.(in case of damage of any type of cable line during excavation, necessary damaged charges as applicable by the respective authority will be borne by the agency in his own cost. Loading, unloading, carrying of pipes, specials, valves from the local store to work site and lowering laying of pipes specials valves carefully in trenches maintaining proper levels and alignment jointing the pipe and specials including supplying of good quality/approved brand solvent cement (as per IS:14182-1994 including cost of all fabricated PVC fitting i.e. tees,bend, reducers, adapter etc.as per IS:101-1988 and making flange joints including supplying required quantity of nuts, bolts and rubber insertion (CIDF sluice valves will be supplied by the department free of cost) as required at site by adopting suitable method so as to facilitate the maintenance of pipe line locally as per conventional method including back filling the trenches with good earth obtained from excavation of trenches including consolidation with watering in layer not exceeding 150mm thk. with maintaining an average depth of cushion of 1.10mtr. from the top of pipe line including making interconnection with distribution pipes etc. all complete as per drawing direction and satisfaction of the E.I.C. N.B. i) Manufacturer's test certificate for UPVC pipe & specials to be produced before laying of pipe line.							

Item No.	Description of items	Unit	Rate (Rs.)					
			ZONE - I	ZONE - II	ZONE-III	ZONE-IV	ZONE-V	ZONE-VI
	ii) 3 <sup>rd</sup> party inspection of UPVC pipe & specials to be done by CEPET or (India) SGS/NTH Kolkata or as per direction of EIC as per approved vendor list. iii) No part payment at any stage on account of supply of materials shall be entertained. iv) Payment will be made on actual consumption of materials. v) UPVC pipes for the works to be supplied as per approved vendor list and as per direction & satisfaction of EIC. No pipes will be allowed beyond recommended vendor list. vi) Submission of drawing of pipe line with statement of materials consumed between node to node points against each R.A. & final bill. if so. vii) Any deviation from required clear cover of 1.10mtr. due to site adverse condition, prior permission is to be obtained from EIC and payment for such work will be made on prorata basis over the rate of entire item. viii) All pipe connection shall be completed in all respect and as per direction of EIC. Decision of EIC in this respect is final & binding. In case of any deviation/or any left out pipe connections an amount of Rs.10,000.00 for each pipe connection will be realized/recovered from the bill.							
	(A) Pressure Rating : Class - III							
	(i) Laying of pipe line including cost of pipe only excluding cost of specials/fittings & valves.	Mtr.	₹ 143.00	₹ 143.00	₹ 143.00	₹ 143.00	₹ 143.00	₹ 143.00
	m) 63 mm(OD)	Mtr.	₹ 107.00	₹ 107.00	₹ 107.00	₹ 107.00	₹ 107.00	₹ 107.00
	n) 50 mm(OD)	Mtr.	₹ 148.00	₹ 148.00	₹ 148.00	₹ 148.00	₹ 148.00	₹ 148.00
	(ii) Laying of pipe line including cost of pipe & fittings/specials but excluding cost of valves.							
	m) 63 mm(OD)	Mtr.	₹ 148.00	₹ 148.00	₹ 148.00	₹ 148.00	₹ 148.00	₹ 148.00
	n) 50mm dia. (OD)	Mtr.	₹ 110.00	₹ 110.00	₹ 110.00	₹ 110.00	₹ 110.00	₹ 110.00

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