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**Govt. of West Bengal**  
 Irrigation & Waterways Dte.  
 Office of the Executive Engineer  
 West Midnapore Division  
 Medinipur, Paschim Medinipur  
 email id- eewmid2012@gmail.com

**WBIW/EE/WMD/NIT 18 of 2016-17**

**Sl. No. 02**

Schedule of Quantity, Unit, Rate and Amount for the work: "Geotechnical investigation including soil testing in c/w the work, 'Construction of R.C.C Bridge with carriage way -7.50 meter over River Dwarakeswar (Jhumi) at Mouza-Mansuka in P.S & Block-Ghatal, Dist-Paschim Medinipur under Ghatal Irrigation Sub Division of West Midnapore Division under Western Circle-II, I & W Dte."

Amount put to Tender : ₹ 346,740.00

Earnest Money : ₹ 6,935.00

Time allowed for Completion : 30 days

Sl. No.	Description of Items	No. or Quantity	Unit	Estimated Rate		Amount
				Figure	Word	
1	Mobilisation charges of all tools and plants along with accessories, materials labours ,supervision etc. at site of work required in connection with boring and testing work including setting up boring rig and shifting to different borehole points etc. and also including withdrawl of the same fro the site after completion of work. comple as per direction of W-In-Charge	1.00	L.S.	₹ 25,000.00	Rupees Twenty five thousand and paise zero only	₹ 25,000.00
2	Labour for making boreholes of 150mm to 250mm dia . By any standard method to any depth below ground level ,/bed level in all kinds of soil like clay ,silt,sand ,stiff clay, mixed soil,etc. except rock ( for purpose of collecting disturbed and un-disturbed soil samples ,conducting standard penetration tests at suitable intervals etxc) including preparation and submission of bore log as per IRC:7578 and C.I. 2400 of specifications for road and Bridge works published by IRC and also including hire charges of tools and plants complete as per direction of					
a	When casing pipe is used to prevent collapse of borehole (casingpipe to be finally withdrawn)					
i	Depth 0 M to 10 M	50.00	Metre	₹ 340.00	Rupees Three hundred forty and paise zero only	₹ 17,000.00
ii	Depth greater than 10 M to 20 M	50.00	Metre	₹ 400.00	Rupees four hundred and paise zero only	₹ 20,000.00
iii	Depth greater than 20 M to 30 M	50.00	Metre	₹ 470.00	Rupees four hundred seventy and paise zero only	₹ 23,500.00
iv	Depth greater than 30 M to 40 M	25.00	Metre	₹ 550.00	Rupees five hundred fifty and paise zero only	₹ 13,750.00
3	Field Investigation: Labour charges for collection of samples from the borehole as per direction of E-In-C	30.00	Each	₹ 350.00	Rupees Three hundred fifty and paise zero only	₹ 10,500.00
4	Field Investigation: a. Disturbed	25.00	Each	₹ 120.00	Rupees one hundred twenty and paise zero only	₹ 3,000.00
5	Field Investigation : Standard Penetration Tests (SPT) by split spoon sampler in the borehole as per IS 2131					

Abstract of Cost

Sl. No.	Description of Items	No. or Quantity	Unit	Estimated Rate		Amount
				Figure	Word	
a.	0.00 - 10.0 M	25.00	Each	₹ 350.00	Rupees three hundred fifty and paise zero only	₹ 8,750.00
b.	10.00 - 20.00 M	30.00	Each	₹ 460.00	Rupees four hundred sixty and paise zero only	₹ 13,800.00
c.	20.00 - 30.00 M	30.00	Each	₹ 570.00	Rupees five hundred seventy and paise zero only	₹ 17,100.00
6	laboratory Investigation					
a	Liquid Limit as per IS-2770(part-V)	30.00	Each	₹ 350.00	Rupees three hundred fifty and paise zero only	₹ 10,500.00
b.	Plastic Limit as per IS-2770(part-V)	30.00	Each	₹ 350.00	Rupees three hundred fifty and paise zero only	₹ 10,500.00
c.	Grain Size analysis by sieving as per IS-2770 (Part-VI)	30.00	Each	₹ 530.00	Rupees five hundred thirty and paise zero only	₹ 15,900.00
d.	Hydrometer Method analysis as per IS-2720 (Part-IV)	30.00	Each	₹ 690.00	Rupees six hundred ninety and paise zero only	₹ 20,700.00
e	Water content as per IS-2720 (Part-II)	30.00	Each	₹ 140.00	Rupees one hundred forty and paise zero only	₹ 4,200.00
f	Specific Gravity as per IS-2720 (Part-III)	30.00	Each	₹ 460.00	Rupees four hundred sixty and paise zero only	₹ 13,800.00
g	Direct shear tests as per IS (part-XIII )	15.00	Each	₹ 570.00	Rupees five hundred seventy and paise zero only	₹ 8,550.00
h	Determination of Unconfined compression strength as per IS2720 ( part-X), (a) Undisturbed.	10.00	Each	₹ 690.00	Rupees six hundred ninety and paise zero only	₹ 6,900.00
	(b) Remoulded.	10.00	Each	₹ 920.00	Rupees nine hundred twenty and paise zero only	₹ 9,200.00
i	Determination of properties Consolidation test as per IS 2720 (Part-XIV)	20.00	Each	₹ 920.00	Rupees nine hundred twenty and paise zero only	₹ 18,400.00
j	Triaxial compression test as per IS 2720 9part-XI0 (1) Determination of shear strength parameters of a specimen tested in unconsolidated undrained triaxial compression without measurement of pore water pressure.	20.00	Each	₹ 920.00	Rupees nine hundred twenty and paise zero only	₹ 18,400.00
k	Laboratory determination of permeability as per IS 2720(Part-xvii)	5.00	Each	₹ 690.00	Rupees six hundred ninety and paise zero only	₹ 3,450.00
l	Determination of pH Value as per IS 2720(Part-VIII).	10.00	Each	₹ 460.00	Rupees four hundred sixty and paise zero only	₹ 4,600.00



Sl. No.	Description of Items	No. or Quantity	Unit	Estimated Rate		Amount
				Figure	Word	
m	Determination of Free Swell Index of Soil as per IS2720(Part-VIII).	30.00	Each	₹ 460.00	Rupees four hundred sixty and paise zero only	₹ 13,800.00
7	preparation and submission of report in six copies giving all relevant informations dta like site plan , borelog and water table , test result, calculation, discussion , suggestion and recommendation in respect of suitable foundationetc. Including determination of silt factor calculation of water way and complete design of foundation including analysis of bearing capacity and settlement in bund and presentable from complete as per direction of					
a	Detailed Investigation.	1	L.S.	12500.00	Rupees twelve thousand five hundred and paise zero only	₹ 12,500.00
8	Carriage of all Disturbed and un-disturbed samples from site of work to the divisional Office or else where including loading and un loading as per direction of Engineer - In-Charge. <i>Detailed Investigation</i>	1	L.S.	₹ 1,600.00	Rupees one thousand six hundred hundred and paise zero only	₹ 1,600.00
9	Extra for Boring in water(1.2m and higher depths).	2	Each	10670.00	Rupees ten thousand six hundred seventy and paise zero only	₹ 21,340.00
Total Amount put to Tender in figure =						₹ 346,740.00
Total Amount put to Tender in word :			Rupees Three lakh forty six thousand seven hundred and forty only			

  
 Executive Engineer  
 West Midnapore Division  
 Irrigation & Waterways Dte.  
 Paschim Medinipur

I / We do hereby agree to do the above work @.....

Above / Less / At par than this Schedule Of Rates attached herewith.

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(Signature of the Contractor)