


Details Estimate for the work :

"Construction of Silt Trapping units as an innovative and Nature Based Green Solution for a length of 2350 m at mouza- Gobardhanpur facing bay of bengal & confluence point of river Saptamukhi , Block - Patharpratima, P.S.-Gobardhanpur Coastal, Dist. South 24 Parganas".

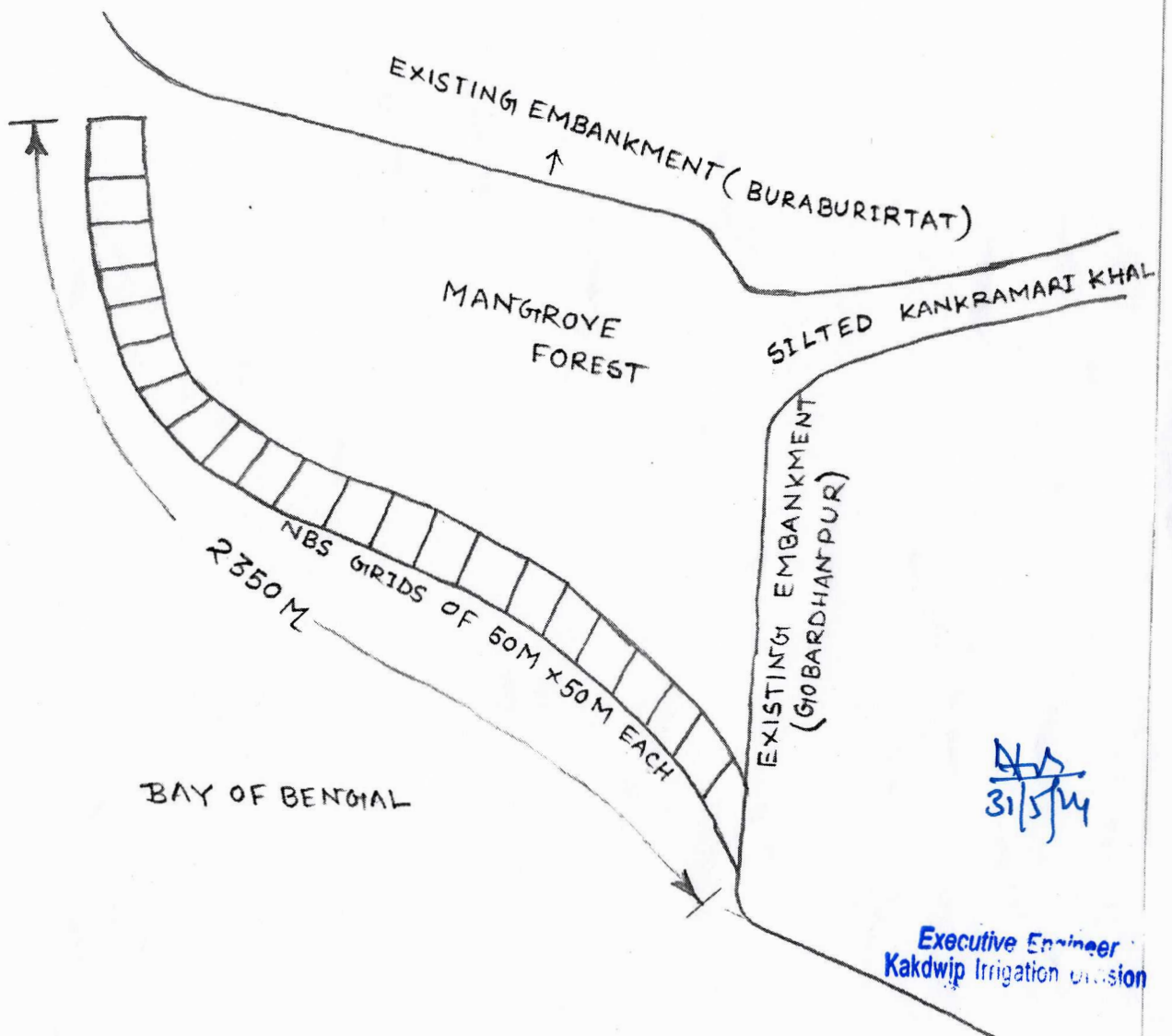
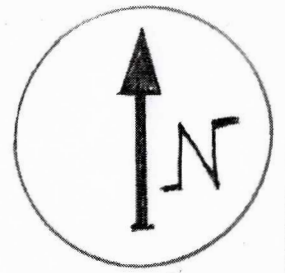
Sl. No.	Description of items.	Quantity.																																																																																																																								
1	<p>Ref.: P - C-8, Item no. - 2.01 of USoR. Supplying Jhaw/Eucalyptus bullah piles at work site, including dressing and making one end pointed. Note: Diameter of pile to be measured at a distance of 1.5 m. from the thicker end.</p> <div data-bbox="446 873 845 1657" style="text-align: center;"> </div> <p>ii) 15 cm. av. diameter. (C) For Silt trapping unit along River Bed (Outer Size- 50.0 m x 50.0 m, Width- 0.600 M) Centre to centre length of Each Unit = 50.00m</p> <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td>No. of Units along bed =</td> <td>2350.00</td> <td>/</td> <td>50.00</td> <td>M</td> <td>=</td> <td>47.00</td> <td>nos.</td> </tr> <tr> <td>Actual length covered =</td> <td>47.00</td> <td>x</td> <td>50.00</td> <td>+</td> <td>0.600</td> <td>=</td> <td>2350.60 M</td> </tr> <tr> <td>Length of Bullah Piling along Beach line</td> <td>2350.600</td> <td>x</td> <td>4</td> <td>row =</td> <td></td> <td>=</td> <td>9402.4 M</td> </tr> <tr> <td>Add extra for both end</td> <td>= 2</td> <td>x</td> <td>49.40</td> <td></td> <td></td> <td>=</td> <td>197.60 M</td> </tr> <tr> <td>Deduction length for openings in each unit</td> <td>= 2 x</td> <td>5.00</td> <td>x</td> <td>47.00</td> <td>(-)</td> <td>=</td> <td>470.00 M</td> </tr> <tr> <td>Total Length for Double line bullah piling =</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>=</td> <td>9130.00 M</td> </tr> <tr> <td>No of Bullah @ 0.50 m C/C</td> <td>9130.00</td> <td>/</td> <td>0.50</td> <td></td> <td></td> <td>=</td> <td>18260.00 Nos</td> </tr> <tr> <td>Length of bullah for double line</td> <td>18260.00</td> <td>x</td> <td>3.00</td> <td></td> <td></td> <td>=</td> <td>54780.00 M</td> </tr> <tr> <td>Single line rows across Beach line =</td> <td>47</td> <td></td> <td></td> <td></td> <td></td> <td>=</td> <td>47.00 Nos</td> </tr> <tr> <td>Length of Bullah</td> <td>47</td> <td>x</td> <td>48.80</td> <td></td> <td></td> <td>=</td> <td>2293.60 M</td> </tr> <tr> <td>No of Bullah @ 0.350 m C/C</td> <td>2293.60</td> <td>/</td> <td>0.35</td> <td></td> <td></td> <td>=</td> <td>6553.14 Nos</td> </tr> <tr> <td>Length of single line bullah across toe line =</td> <td>6554</td> <td>x</td> <td>3</td> <td></td> <td></td> <td>=</td> <td>19662.00 M</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: right;">Total</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: right;">Length = 74442.00 M</td> </tr> </table>	No. of Units along bed =	2350.00	/	50.00	M	=	47.00	nos.	Actual length covered =	47.00	x	50.00	+	0.600	=	2350.60 M	Length of Bullah Piling along Beach line	2350.600	x	4	row =		=	9402.4 M	Add extra for both end	= 2	x	49.40			=	197.60 M	Deduction length for openings in each unit	= 2 x	5.00	x	47.00	(-)	=	470.00 M	Total Length for Double line bullah piling =						=	9130.00 M	No of Bullah @ 0.50 m C/C	9130.00	/	0.50			=	18260.00 Nos	Length of bullah for double line	18260.00	x	3.00			=	54780.00 M	Single line rows across Beach line =	47					=	47.00 Nos	Length of Bullah	47	x	48.80			=	2293.60 M	No of Bullah @ 0.350 m C/C	2293.60	/	0.35			=	6553.14 Nos	Length of single line bullah across toe line =	6554	x	3			=	19662.00 M										Total														Length = 74442.00 M	74442.00 m
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2	<p><u>Ref.: P - C-8, Item no. -2.02 of USoR.</u> Labour for driving Jhaw/Eucalyptus bullah piles by monkey in all sorts of soil including hoisting and placing piles in position, protecting the pile head with iron ring and cutting and shaping heads before and after driving and including hire and labour for necessary driving appliances and all tackles.</p> <p>ii) 15 cm av. diameter Silt trapping Bullah supply length = 3.00 M Exposed length = 1.00 M Driving length = @ 2.00 m. Total driving = 24814 Nos. x 2.00 m = 49628.00 M No of Bullah - (18260 +6554) = 24814 Nos Total = 49628.00 M</p>	49628.00 m																																																							
3	<p><u>Ref.: P-C-9, Item no. - 2.05 of USoR.</u> Supplying, fitting and fixing with iron nails half split bullah wailing pieces and cross pieces etc. complete with cost of all materials and carriage to site. (a) Width of thinner end above 10 cm. and less than 15 cm.</p> <table border="0"> <tr> <td>half split For double line Bullah piling along toe line</td> <td>2</td> <td>x</td> <td>2</td> <td>x</td> <td>2350.60</td> <td>x</td> <td>2</td> <td>=</td> <td>18804.80</td> <td>m</td> </tr> <tr> <td>At ends, 97.60m (2 x 48.8) for single line</td> <td>2</td> <td>x</td> <td>2</td> <td>x</td> <td>97.60</td> <td>x</td> <td>2</td> <td>=</td> <td>780.80</td> <td>m</td> </tr> <tr> <td>half split For double line Bullah piling at "T" head</td> <td>2</td> <td>x</td> <td>2</td> <td>x</td> <td>2160.00</td> <td>x</td> <td>2</td> <td>=</td> <td>17280.00</td> <td>m</td> </tr> <tr> <td>half split For double line bullah piling cross runner</td> <td>2448.20</td> <td>/</td> <td>2</td> <td>+</td> <td>1.00</td> <td>x</td> <td></td> <td>=</td> <td>1225.1</td> <td>Nos</td> </tr> <tr> <td>(2350.60 + 97.60) = 2448.20</td> <td>1225.00</td> <td>x</td> <td>1.150</td> <td></td> <td></td> <td></td> <td>Say</td> <td>1225</td> <td>1408.75</td> <td>m</td> </tr> </table> <p>No. of Points of Cross runner at end & Junction = 47 x 2 + 8 = 102 nos. Length of Cross bracings = 2 x 102 x 1.40 m = 285.60 m. Total = 43147.15 m.</p>	half split For double line Bullah piling along toe line	2	x	2	x	2350.60	x	2	=	18804.80	m	At ends, 97.60m (2 x 48.8) for single line	2	x	2	x	97.60	x	2	=	780.80	m	half split For double line Bullah piling at "T" head	2	x	2	x	2160.00	x	2	=	17280.00	m	half split For double line bullah piling cross runner	2448.20	/	2	+	1.00	x		=	1225.1	Nos	(2350.60 + 97.60) = 2448.20	1225.00	x	1.150				Say	1225	1408.75	m	43147.15 m.
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4	<p><u>Ref.: P - C-11, Item no.- 2.18 of USoR.</u> Supplying and tying in bundles with 12 SWG galvanized iron wire filling in specified areas in bundles and providing ties with half split bamboos fitted, fixed including lead upto 2 km and all lifts, laying and placing complete as per direction of the Engineer - in - charge. (measurement to be made on volume of each bundle) a) With bundles of brush wood</p> <table border="0"> <tr> <td>Effective length Silt trapping bullah core along Toe line =</td> <td>2350.60</td> <td>x</td> <td>2.00</td> <td>=</td> <td>4701.20</td> <td>M</td> </tr> <tr> <td>Add Extra for both end</td> <td>48.80</td> <td>x</td> <td>2.00</td> <td>=</td> <td>97.60</td> <td>M</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>=</td> <td>4798.80</td> <td>M</td> </tr> <tr> <td>Deduction length for openings in each unit =</td> <td>48.00</td> <td>x</td> <td>5.00</td> <td>=</td> <td>(-)</td> <td>240.00</td> <td>M</td> </tr> <tr> <td>Total</td> <td></td> <td></td> <td>Length</td> <td>=</td> <td>4558.80</td> <td>M</td> </tr> <tr> <td>Volume of Brush Wood =</td> <td>4558.80</td> <td>x</td> <td>0.45</td> <td>x</td> <td>0.80</td> <td>=</td> <td>1641.17</td> <td>Cum.</td> </tr> </table>	Effective length Silt trapping bullah core along Toe line =	2350.60	x	2.00	=	4701.20	M	Add Extra for both end	48.80	x	2.00	=	97.60	M					=	4798.80	M	Deduction length for openings in each unit =	48.00	x	5.00	=	(-)	240.00	M	Total			Length	=	4558.80	M	Volume of Brush Wood =	4558.80	x	0.45	x	0.80	=	1641.17	Cum.	1641.17 Cum.										
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Executive Engineer
Kakdwip (I) Division


Sub-divisional Officer
Pathpratima (I) Sub-division

Sectional Officer
BBT(East) Section



PLAN OF PROPOSED SILT TRAPPING UNITS AT MOUZA
GLOBARDHANPUR FACING BAY OF BENGAL

[NOT TO SCALE]

S.D.
21/5/24
S.D. PATHARPRATIMAN SDN.