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भारत सरकार **GOVT. OF INDIA** पत्तन, पोत परिवहन और जलमार्ग मंत्रालय Ministry of Ports, Shipping & Waterways भारतीय अन्तर्देशीय जलमार्ग प्राधिकरण **INLAND WATERWAYS AUTHORITY OF INDIA** Pandu Port Complex, Pandu, Guwahati-781 012, Assam

No. IWAI/GHY/3(13)/Misc/2024

Date: 27.09.2024

NOTICE INVITING QUOTATION

Sealed quotations are invited from the reputed Contractor / agencies for "Estimate for Construction of RCC footing and column including installation of MS pipe" as per Annexure as per terms and conditions laid down below. The NIQ can also be downloaded from IWAI's website (www.iwai.nic.in).

The construction works may be done as per following terms and conditions (2) mentioned below:

- (i) The price may be quoted in both words and figures.
- The price may be quoted including all the cost such as supply & (ii) installation charges, POL, maintenance, incidental charges and all taxes excluding Good & Service Tax (GST) as applicable which will be paid on production of proof of payment. No other charges shall be entertained.
- The above construction work should be as per the BOQ & directives of (iii) Engineer-In-Charge or his authorized representative. In case of the supplied items / materials and installation is found in improper condition the supplier should replace the same within one at his own mobilization / de-mobilization cost.
- The construction works should be completed within 35 (thirty five) days (iv)from the date of the issue of work order. The other ancillary works are to be carried out as per direction of EIC or his authorized representative.
- EIC or his authorized representative reserves the right to alter the (V) duration of the work / reduce the quantity of the work as per actual requirement & as per site condition.
- The firm has to submit documentary evidence of current copy of the (vi) Registration Certificate, PAN and GST.
- The payment shall be made by RTGS / PFMS within 30 (thirty) days after (vii) satisfactorily completion of work after necessary certification by EIC or

his authorized representative. The period of construction will be made as per BoQ on submission of bill as per actual work done and satisfactorily completion, certification by EIC or his authorized representatives.

Contd...

Head Office :- I.W.A.I., A-13, Sector-1, NOIDA - 201 301 (U.P.) • E-mail wainoi@nic.in • Phone No :- 0120-2543972, 2543973, 2544004, 2521664, 2544036, 2522971. -2-

- In Case of delay in completion of work liquidity damage @ 1.5 % per (i) month to be computed on per day basis. The total amount of compensation for delay to be paid under this condition shall not exceed 5% of the value of work.
- Necessary compensation in case of any accident will have to be paid by (ii) the supplier as per rule and it solely responsibility of the agency to take all necessary / applicable insurance policy etc. IWAI will not be held responsible for any such unforeseen events and no compensation shall be paid by IWAI.
- IWAI reserves the right to accept or cancel any / all quotations without (iii) assigning any reason or any prior notice.
- (3)

The sealed quotation should reach this office latest by 07.10.2024 at 15:00 hrs and will open on same day at 15.30 hrs. No quotation will be accepted after the last date and time for submission of quotations.

Encl: as stated above.

DIRECTOR (I/C)

Copy to: Office Notice Board



Annexure

BoQ for Construction of RCC footing and column including installation of MS pipe

1 Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil 5,29 1.01 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : cum 0.34 Ratio - 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources) cum 0.34 0.34 PCC Below Footing. Ratio 1:2:4 (M15) (1.3 x 1.3 x 0.1)m 0.78 cum 0.78 1.02 Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : cum 0.78 1.02 Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : cum 0.78 1.03 Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : cum 0.78 1.03 Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All w						
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1.50 - 37.92 kg) Column Size Length: 0.55m Depth: 1.50m Reinforcement details for each Column: Main bars: 8 nos 16mm dia @ 0.150 c/c (Cutting length (.5+0.24.0.3)=2m x 8 nos = 16m (16 mm dia bar unit weight = 1.580 kg per mtr) (16 x 1.580 dg 0.150 c/c Cutting length: 1=f/0.235x0.235)+(235x.235) = 0.332 m Now cutting length: 1=f/0.235x0.235)+(235x.235) 						
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Length: 0.55m Breadth: 0.55m Depth: 1.50m Sfm Reinforcement details for each Column: Main bars: 8 nos 16mm dia @ 0.150 of 6 (Cutting length (1.5+02-0.52k kg) Column Strues B mm dia @ 0.150 of c Column Strues B mm dia @ 0.150 of c Column Strues B mm dia @ 0.150 of c Column Strues B mm dia @ 0.150 of c Column Strues I (15 mm dia bar: unit weight = 1.580 kg per mtr) (16 x 1.500 - 250 kg) Column Strues Now cutting length: 1+4/(0.235k0.235)+(235k.235) I (322k) + (4k0.47) + (2x10k0.08) - (2x3xd) = (2x3xd) (2x3xd) I (322k) + (4k0.47) + (2x10k0.08) - (2x3xd) = (2x3xd) (2x3xd) I (322k) + (4k0.47) + (2x10k0.08) - (2x3xd) = (2x3xd) (2x3xd) I (32k) + (4k0.47) + (2x10k0.08) - (2x3xd) = (2x3xd) (2x3xd) I (32k) + (4k0.47) + (2x10k0.08) - (3x2xd) = (2x3xd) (2x3xd) I (32k) + (4k0.47) + (2x10k0.08) - (3x2xd) = (2x3xd) (2x3xd) I (32k) + (2k0.47) + (2x10k0.08) - (3x2xd) = (2x3xd) (2x3xd) I (32k) + (4x0.47) + (2x10k0.08) - (3x2xd) = (2x3xd) (2x3xd) I (32k) + (2k0.47) + (2x10k0.08) - (3x2xd) = (2x3xd) (2k10k10k10k10k10k10k10k10k10k10k10k10k10k		-				
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Reinforcement details for each Column: Main bars: 8 ons 16m dd (0: 0150 c/c (Cutting length (1:470.2+0.3)=2m x 8 nos = 16m (16 m dis bar unit weight = 1.580 kg per mtr) (15 x: 580 = 25.28 kg) Column Strueze B mm dia (0: 0.150 c/c Cover= 40mm Cutting length : H=1/(0.250x.025)+(2.25x.235) = 0.332 m Now cutting length : H=1/(0.25x0.25)+(2.25x.235) = 0.332 m Now cutting length = 4H + 4a + (2x10xd) - (3x2xd) - (2x3xd.08) = 3.84m (one column stirups = 42.24 m (8 mm dia bar unit weight= 0.395 kg per mtr) Weights of column stirups = 42.24 m (8, mm dia bar unit weight= 0.395 kg per mtr) Weights of column stirups = 42.24 m (8, mm dia bar unit weight= 0.395 kg per mtr) Weights of column stirups = 42.24 m (8, mm dia bar unit weight= 0.395 kg per mtr) Weights of column stirups = 42.24 m (8, mm dia bar unit weight= 0.395 kg per mtr) Weights of column stirups = 42.24 m (8, mm dia bar unit weight= 0.395 kg 105 20mm MS Plate : Bottom Rate (attached to column) : Bottom Rate (attached to column) : Date: Column Strueght per motil strueg						
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8 mm dia @ 0.150 c/c Cover 40mm Cutting length : H=/(0.235x0.235)+(235x.235)						
Cover= 4.0mm Cutting length : H=/(0.235x0.235)+(.235x.235) Image: Cover= 4.0mm Image: Cover= 4.0mm 0.0x cutting length = 4H + 4a + (2x10xd) - (3x2xd) = (2x3xd) Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover= 4.0mm Image: Cover: Cov		Column Stirups				
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Now cutting length = 4H + 4a + (2x10xd) - (3x2xd) - (2x3xd) = (.332x4) + (4x0.47) + (2x10x0.08) - (3x2x0.08) - (2x3x0.08) = .3.84m Image: Contemp 1 1 nos x 3.84 = 42.24 m (8 mm dia bar unit weight= 0.395 kg per mtr) Weights of column stirrup 11 nos x 3.84 = 42.24 m (8 mm dia bar unit weight= 0.395 kg per mtr) Kg 128 Bottom Plate (attached to column) : Size: Length = 0.45m, Breadth = 0.45m & Thickness = 20mm Unit weight per sqm of MS plate (nor 20mm thickness) = 157 kg Total weight for each MS plate = (0.45 x 0.45) x 157 = 31.79 kg, Say 32 kg Kg 80 1.06 Foundation Bolt @ 32mm dia Depth = 0.75 m 8 nos foundation bolt per column. (weight of each bolt = 5 kg) = 8 nos bolt x 5 = 40 kg Mtr 12 1.07 Vertical MS round pipe @ 300mm Outer dia Thickness = 6mm Unit Weight for each MS pipe (for 6m) = (48.33 x 6) = 290 kg Mtr 12 1.08 MS plate for support the 300mm dia column with the column : Size of the triangular portion : Width = 0.05m, Height = 0.2m, Area = 0.05m x 0.2m = 0.01 sqm(i) Size of the triangular portion : Width = 0.05m, Height = 0.2m, Area = 1/2 x 0.05 x 0.2 = 0.005 sqm(ii) Total Area = 0.01 sqm + 0.005 sqm = 0.015 sqm Unit weight for per sqm = 157 kg No. of supporters in one column (6 supporters) = 6 x 0.015 x 157 kg = 14.13 kg Job 1 1.09 Hiring charges of Hydra for lifting. Installation, fitting & fixing with bolts of 300mm dia MS column Job 1						
= (.332x4) + (4x0.47) + (2x10x0.08) - (3x2x0.08) - (2x3x0.08) = 3.34m (one column stirrup 11 nos x 3.84 = 42.24 m (8 mm dia bar unit weight= 0.395 kg per mtr) Weights of column stirrups = 42.24 x 0.395 = 16.68 kgs 1.05 20mm MS Plate : Bottom Plate (attached to column) : Size: Length = 0.45m, Breadth = 0.45m & Thickness = 20mm Unit weight per sqm of MS plate (or 20mm thickness) = 157 kg Total weight for each MS plate (or 20mm thickness) = 157 kg 1.06 Foundation Bolt @ 32mm dia Depth = 0.75 m 8 nos foundation bolt per column. (weight of each bolt = 5 kg) = 8 nos bolt x 5 = 40 kg 1.07 Vertical MS round pipe @ 300mm Outer dia Thickness = 6mm Unit weight for each MS pipe (for 6m) = (48.33 x 6) = 290 kg 1.08 MS plate for 20mm (weight = 0.2m, Area = 0.05m x 0.2m = 0.01 sqm(i) Size of each plate 1: Thickness = 20ntm Size of the retangular portion : Width = 0.05m, Height = 0.2m, Area = 1/2 x 0.05 x 0.2 = 0.005 sqm(i) Total Area = 0.01 sqm 1005 sqm = 0.015 sqm Unit weight for each olos for squ = 0.015 sqm(i) Size of the triangular portion : Bids = 0.05m, Height = 0.2 m, Area = 1/2 x 0.05 x 0.2 = 0.005 sqm(i) Total Area = 0.01 sqm 1005 sqm = 0.015 sqm Unit weight for each olos for e no.015 sqm Unit weight for each olos for end 0.015 sqm(i) Size of the triangular portion : Bids = 6 0.015 x 157 kg = 14.13 kg Job 1 1.09 Hiring charges of Hydra for lifting, installation, fitting & fixing with bots of 300mm dia MS column Job 1						
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1.05 20mm MS Plate : Kg 128 Bottom Plate (attached to column) : Size: Length = 0.45m, Breadth = 0.45m & Thickness = 20mm 128 Unit weight per sqm of MS plate (for 20mm thickness) = 157 kg Total weight for each MS plate = (0.45 x 0.45) x 157 = 31.79 kg. Say 32 kg 80 1.06 Foundation Bolt @ 32mm dia Kg 80 Depth = 0.75 m a nos foundation bolt per column. (weight of each bolt = 5 kg) = 8 nos bolt x 5 = 40 kg Mtr 12 1.07 Vertical MS round pipe @ 300mm Outer dia Mtr 12 Thickness = 6mm unit weight for each MS pipe (for fom) = (48.33 x 6) = 290 kg Mtr 12 1.08 Ms plate for support the 300mm dia column with the column : Kgs 28.3 Size of the rectangular portion : Width = 0.05m, Height = 0.2m, Area = 0.05m x 0.2m = 0.01 sqm(i) Size of the triangular portion : Base = 0.05m, Height = 0.2m, Area = 1/2 x 0.05 x 0.2 = 0.005 sqm(ii) Total Area = 0.01 sqm + 0.005 sqm = 0.015 sqm(ii) Total weight for each column (6 supporters in one column = 6 nos. Total weight for each column (6 supporters) = 6 x 0.015 x 157 kg = 14.13 kg 1 1.09 Hring charges of Hydra for lifting installation, fitting & fixing with botts of 300mm dia MS column Job 1						
Bottom Plate (attached to column) : Size:		weights of column sumups - 42.24 x 0.395 =10.00 kgs				
Bottom Plate (attached to column) : Size:	1.05	20mm MS Diato -	Ka	120		
Size: Length = 0.45m, Breadth = 0.45m & Thickness = 20mm Unit weight per sqm of MS plate (for 20mm thickness) = 157 kg Total weight for each MS plate = (0.45 x 0.45) x 157 = 31.79 kg, Say 32 kg 1.06 Foundation Bolt @ 32mm dia Depth = 0.75 m 8 nos foundation bolt per column. (weight of each bolt = 5 kg) = 8 nos bolt x 5 = 40 kg 1.07 Vertical MS round pipe @ 300mm Outer dia Thickness = 6mm Mtr Unit Weight per meter = 48.33 kg Length = 6 m Weight for each MS pipe (for 6m) = (48.33 x 6) = 290 kg 1.08 MS plate for support the 300mm dia column with the column : Size of each plate : Thickness : 20mm Size of the rectangular portion : Width = 0.05m, Height = 0.2m, Area = 0.05m x 0.2m = 0.01 sqm(i) Size of the rectangular portion : Width = 0.05m, Height = 0.2m, Area = 1/2 x 0.05 x 0.2 = 0.005 sqm(ii) Total Area = 0.01 sqm + 0.005 sqm = 0.015 sqm Unit weight for each column 6 nos. Total weight for each column (6 supporters) = 6 x 0.015 x 157 kg = 14.13 kg 1.09 Hiring charges of Hydra for lifting, installation, fitting & fixing with bolts of 300mm dia MS column Job 1	1.05		ng	128		
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Note:- All works shall be completed as per direction of EIC or his representative