

BOQ BASED ON S.O.R. FOR BRIDGE WORK
ISSUED BY ENGINEER IN- CHIEF C.G.P.W.D. RAIPUR
INFORCE FROM 01.01.2015@90% and CGRRDA SSOR 22.02.2018

BOQ FOR CONSTRUCTION OF SUBMERSIBLE BRIDGE ACROSS KUYER NALA FROM KERLAPAL PATEL PARA TO
PONGABHEJI ROAD RD 7000M BLOCK KONTA , DIST. SUKMA (C.G.)

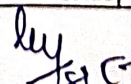
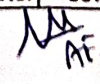

2 SPAN @12.00 M = 24 M.

OPEN FOUNDATION PIER & OPEN FOUNDATION ABUTMENT

ABSTRACT

Sr. no.	SOR Item No.	BOQ Description	Quantity	Unit		
					RATE	Amount
		FOUNDATION				
1	2.1 (I)	Excavation for Structures (Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material.) as per section 304. Ordinary soil	643.030	cum	131.40	84,494
		Ordinary Soil (ii) 3m to 6m depth	353.251	cum	150.30	53,094
		Ordinary Rock (iii) Above 6m depth	314.423	cum	184.50	58,011
2	2.1 A	Add extra in rates of dewatering of above items if dewatering is resorted. Ordinary Soil (i) upto 3m depth	303.054	cum	26.28	7,964
		Ordinary Soil (ii) 3m to 6m depth	353.251	cum	30.06	10,619
		Ordinary Rock (iii) Above 6m depth	314.423	cum	36.90	11,602
3	2.1 A	The cost of shoring and shuttering, when needed, be added at 1 percent on cost of excavation for open foundation. Ordinary Soil (i) upto 3m depth	643.030	cum	1.31	845
		Ordinary Rock (ii) 3m to 6m depth	353.251	cum	1.50	531
		Ordinary Rock (iii) Above 6m depth	314.423	cum	1.85	580
4	2.2	Filling annular space around footing in rock (lean cement concrete 1:3:6 nominal mix	112.82	m	4151.70	4,68,411
5	2.6 A	Plain / Reinforced cement concrete in open foundation (complete as per drawing and specification as per section 1500, 1700 & 2100. Using batch type concrete Mixer with integrated weigher.				
	(i)	PCC Grade M-15	30.73	cum	4151.70	1,27,588
6	2.6 A	Plain / Reinforced cement concrete in open foundation (complete as per drawing and specification as per section 1500, 1700 & 2100. Using batch type concrete Mixer with integrated weigher.				
	(i)	RCC Grade M-30	183.74	cum	5392.80	9,90,852
7	2.24	Supplying, fitting and placing HSD (High Strength Deformed Steel) bar reinforcement in foundation complete as per drawing and technical specifications as per section 1600. (Fe -550)	18.37	MT	61823.70	11,35,924
8	2.25	Taking trail boring 100mm dia. For detailed investigation with diamond drill double tube in all type of Hard rock including all material such as casing pipes, grease and other such material and or as required including accessories, conveying such material and machinery to site of work preserving the loose sample and core samples serially numbered at the site of work and conveying same to the head quarters of concerned office as directed and submission of detailed bore log sheet as per I.R.C.78-2014 and section 2400 including testing and preserving rock core sample in core boxes as per specification.				
	(i)	Upto 1.0 m below bed level	3.00	each	5355.90	16,068
	(ii)	Beyond 1.0 m upto 5.0 m depth	12.00	meter	1170.00	14,040

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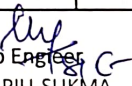





no.	SOR Item No.	BOQ Description	Quantity	Unit	RATE		Amount
	(iii)	Beyond 5.0 m depth	15.00	meter	1327.50		19,913
		SUB STRUCTURE					
9	3.6	Providing and laying Plain/Reinforced cement concrete in sub-structure complete as per drawing and technical specifications section 1500, 1700 and 2200					
	E(a)(iii)	Height 5m to 10 m (RCC Grade M30)	326.80	cum	5894.10		19,26,215
10	3.7	Supplying, fitting and placing HYSD bar reinforcement in sub-structure complete as per drawing and technical specifications section 1600 and 2200 (Fe 550)	42.48	tonne	62101.80		26,38,364
11	3.8	Providing weepholes in Brick masonry / Plain/ Reinforced concrete abutment, wing wall/ return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V : 20H towards drawing face. Complete as per drawing and technical specification and as per clause 2706 and 2200	32.62	meter	288.90		9,424
12	3.9	Back filling behind abutment, wing wall and return wall complete as per drawing and Technical specification 710.1.4 of I.R.C. 78 and 2200					
	(i)	Granular material	616.40	cum	814.50		5,02,055
13	3.10	Providing & laying of filter media with granular materials /stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2 of MORTH specification to a thickness of not less than 600 mm with smaller towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and technical specifications 700.1.4 of I.R.C. 78 and 2200	103.48	cum	1733.40		1,79,365
14	3.14	Supplying, fitting and fixing in position true to line and level elastomeric bearing conforming to IRC: 83 (Part-II) section IX and clause 2005 of MoRTH specifications complete including all accessories as per drawing and Technical Specifications section 2000 and 2200 towards the soil and bigger size towards the wall and	74400.0	cum	0.90		66,960
		SUPER STRUCURE					
15	4.1 B	Furnishing and Placing Reinforced/Prestressed cement concrete in super-structure as per drawing and Technical Specification sections 1500, 1600 and 1700 B. RCC Grade M 30 (I)SUPER - STRUCTURE II For Solid slab (a) Using batch type concrete mixer with integrated weigher.					
	a	(ii) Height 5m to 10m	153.81	cum	6536.70		10,05,410
16	4.2	Supplying, fitting and placing HSD (High Strength Deformed Steel) bar reinforcement in super-structure complete as per drawing and technical specifications 1600 (Fe 550)	22.74	tonne	63090.90		14,34,479
17	4.4	Providing and laying Cement concrete wearing coat M-30 grade including reinforcement complete as per drawing and Technical	17.44	cum	10662.30		1,85,924
18	4.6	Construction of RCC railing of M30 Grade in-situ with 20 mm nominal size aggregate, true to line and grade, tolerance of vertical RCC post not to exceed 1 in 500, centre to centre spacing between vertical post not to exceed 2000 mm, leaving adequate space between vertical post for expansion, complete as per latest IRC- 5 & IRC-6, approved drawings and technical specifications.	62.00	meter	1637.10		1,01,500
19	4.9	Drainage Spouts complete as per drawing and Technical specifications of section 2705	10.00	each	1806.30		18,063
20	4.10	PCC M15 Grade leveling course below approach slab complete as per drawing and Technical specification and as per relevant section 2700	49.28	cum	3993.30		1,96,770
21	4.11	Providing and laying M-30 grade Reinforced cement concrete approach slab including reinforcement and formwork complete as per drawing and Technical specification and as per relevant sections 1500, 1600, 1700 and 2704	17.64	cum	8520.30		1,50,298


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by HSE
HSE
HSE

No.	SOR Item No.	BOQ Description	Quantity	Unit	RATE		Amount
22	4.18	Strip Seal Expansion Joint (Providing and laying of a strip seal expansion joint catering to maximum horizontal movement upto 70 mm, complete as per approved drawings and standard specifications to be installed by the manufacturer/supplier or their authorized representative ensuring compliance to the manufacturer's instructions for installation.)	25.20	meter	10011.60		2,52,292
23	4.21	Painting on concrete surface of R.C.C. Railing (Providing and applying 2 coats of water based cement paint to unplastered concrete surface after cleaning the surface of dirt, dust, oil, grease, efflorescence and applying paint @ of 1 litre for 2 Sq.m.)	199.64	sqm	135.90		27,131
24	4.23	Providing and Fixing of Av. 20mm thick Granite plate including cutting and polishing and inscribed details as per approved drawing i/c engraving the matter as desired.	2.00	sqm	5940.00		11,880
		TOTAL					1,17,06,665
		GST 18% Amount					21,07,200
		G. Total Cost					1,38,13,864
		Say Rs (In Lakhs)					138.14


 Sub Engineer
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