



GOVERNMENT OF ASSAM

অসম চৰকাৰ

SCHEDULE OF RATES

(CIVIL WORKS)

2023-24



IRRIGATION DEPARTMENT

জলসিঞ্চন বিভাগ

PREFACE

This Schedule of Rates for the year 2023-24 for Irrigation Department has been prepared considering the general specifications in force in the State Departments and on the basis of current practices in the State taking into consideration the prevailing market price of various consumable items.

The Schedule of Rates under Irrigation Department, Assam was last revised in the year 2019-20. At present revision is done as a department must have an updated Schedule of Rates revised on a regular basis considering the cost of all the commodities rising at frequent intervals.

The rates in the schedule will apply to all possible categories of works that may arise in the construction and maintenance of irrigation works undertaken by the Irrigation Department throughout the State of Assam.

The detailed Analysis of Rates covered by this Schedule of Rates have been carried out on the basis of All India Standard Schedule of Rates & Indian Standard Recommendation for labour rates notified by the Labour Commissioner, Assam vide Notification No.ACL/41/2004/3905-908, Dated.27th April, 2023, considering the weekly paid holiday.

This Schedule of Rates for the year 2023-24 shall be effective for all divisions for executing works related to irrigation throughout Assam under this Department from the date of publication.

The basic rates of materials used in the Analysis of Rates are without GST as collected from market and GST @ **18%** for Composite Works as defined in *Clause (119) of Section 2 of the Central Goods and Services Tax Act, 2017 vide OM No.158/SE(TAS)/GST/2022/331-H, Dated.10.08.2022* is considered in the Analysis of Rates as directed by the Finance Department are incorporated in the rear.

*An additional amount of 4% has to be considered on overall items at the time of preparation of estimates for **Rates of Royalty on Forest Produces** as per latest Gazette Notification No.PEM.130/2021/40, Dated.07.10.2021. As such the Rates of Royalty on Forest Produces have not been considered in the Analysis of Rates of Items.*

An additional amount of 1% should be considered on overall items at the time of preparation of estimates and this amount is to be deducted from the bills of the contractors and to be deposited at the Treasury under the Head of Accounts 'Labour Welfare Cess' and a copy of the challan is to be deposited to the Member Secretary, Labour Welfare, who happens to be Assistant Labour Commissioner of the concerned district.

Although due care has been taken to make the Schedule of Rates more realistic and as correct as possible, however, some errors cannot be ruled out and might have crept in inadvertently. In case, any such errors or omissions are apparent, these may be brought to the notice of the Head of the Department for necessary corrections. Suggestions and feedback for further improvements are always welcome.

Lastly we offer our thanks to all the following members of Schedule of Rates Preparation Team for their sincere efforts in timely completion of the works:

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BASIC NOTES

The Schedule of Rates is prepared for all Divisions of Assam under the jurisdiction of Chief Engineer, Irrigation Department, Assam, Guwahati-3. All rates of items for all kind of commonly executed works under Irrigation Department, Assam are incorporated in this Schedule of Rates.

The basic approach for the preparation of this Schedule of Rates is indicated as under:

1. Descriptions of works mentioned in the item of works are in brief. These should be read and carried out in accordance with approved drawings, specifications and relevant IS Codes of Practice.
2. Unless otherwise specified distinctly, materials of the best and durable variety shall be used in all works covered by this Schedule of rates. The concerned Executive Engineer should approve samples of the materials proposed to be used in the works and if desired test reports from the producers shall have to be furnished to the Executive Engineer. Further required tests in approved laboratories shall have to be conducted for the samples at contractor's cost.
3. The contractor should intimate the concerned Engineer-in-charge before starting of the work.
4. The rates in the schedule are intended to apply to every description of work that may be required in construction and maintenance of irrigation structures and other related works.
5. Unless otherwise specified, the rate shall be deemed to be on finished net sizes, complete fixing, inclusive of all necessary materials, labour, tools and plants, transport and shall also cover the cost of all contingent items.
6. The rates in this schedule includes all costs, so no extra benefit shall be allowed for meeting up the various requirements as laid down in specification, drawings, special conditions, preamble to items, etc., and any or all items unless specially provided to the contrary.
7. Working Conditions:
 - (i) Rates have been analyzed for average working condition prevailing in the State.
 - (ii) The places of work under Irrigation Department are usually village and remote areas, therefore average achievable outputs of the machine and labour have been considered taking into account the job and management factors.

- (iii) In some specified items of work the output of machines and labour reduces substantially, therefore these have been taken care of.

8. Basic Inputs:

- (i) The rates calculated in this schedule are based on requirements of basic inputs of materials, labour and machineries for various items.
- (ii) The labour wages are considered as per rates notified by the Labour Commissioner, Assam vide Notification No. ACL/41/2004/3905-908, Dated.27th April, 2023, considering the weekly paid holiday.
- (iii) The rates of materials are considered as per prevailing market rates.
- (iv) In case of quarry distance of the work site exceeds 25 KM for gravels, broken stones, boulders and 40 KM for sand, then the rates should be worked out separately as in the Schedule of Rates.
- (v) The hire charge of machines considered as per market rate includes ownership charge, cost of repairs and maintenance, etc.
- (vi) Cost of fuel, lubricants, operating crew, etc., are considered separately in the analysis of rates unless specifically mentioned.

9. Supervision charge of 5% on labour items is considered.

10. Contractor's profit @ 10% is considered uniformly.

11. GST @ **18%** for Composite Works as defined in *Clause (119) of Section 2 of the Central Goods and Services Tax Act, 2017 vide OM No.158/SE(TAS)/GST/2022/331-H, Dated.10.08.2022* is considered.

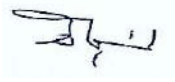
12. Compensation for the earth obtained from Govt. land is considered @ Rs.120.00 per CuM in the analysis of rates. However, where the earth has to be borrowed from private land, the contractor will make his own arrangement wherever required and produce the earth compensation receipt.

13. The serviceable dismantled materials should be taken into account and handed over to departmental store.


14. The construction materials which will not be issued from the departmental stores of Irrigation Department, the contractors shall have to produce those materials of specified brand and quality from authorized dealers.

15. In preparation of estimates where the estimated cost exceeds Rs. 10.00 Lakh, 1 % of the total cost should be considered as construction workers welfare cess. The rate of construction workers' welfare cess may vary as per Govt. notification.

16. *An additional amount of 4%* has to be considered on overall items at the time of preparation of estimates for ***Rates of Royalty on Forest Produces*** as per latest Gazette Notification No.PEM.130/2021/40, Dated.07.10.2021. As such the Rates of Royalty on Forest Produces have not been considered in the Analysis of Rates of Items.



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1. COLLECTION

Sl No	Name of Item	Unit	Rate
1.1	SAND Collection of sand at quarry free from dust & other foreign materials including screening etc, complete as directed.		
(i)	Without Contractor's Profit & GST	<i>CuM</i>	Rs. 434.47 (Rupees Four Hundred ThirtyFour(Paise FourtySeven) Only
(ii)	With Contractor's Profit & GST	<i>CuM</i>	Rs. 563.94 (Rupees Five Hundred SixtyThree(Paise NinetyFour) Only
1.2	BOULDER		
(A)	Collection of one man size 25 cm to 30 cm hard river boulder including stacking in measurable stacks of not more than 1.00 M height at quarry site and complete as directed.	<i>CuM</i>	Rs. 1024.75 (Rupees One Thousand TwentyFour(Paise SeventyFive) Only
(B)	Collection of blasted boulder of size 25 cm to 30 cm including stacking at quarry site, complete as directed.	<i>CuM</i>	Rs. 1536.03 (Rupees One Thousand Five Hundred ThirtySix(Paise Three) Only
(C)	Collection of blasted boulder of size 15 cm to 23 cm including stacking in measurable stacks not more than 1.00 M in height at quarry site and complete as directed.	<i>CuM</i>	Rs. 1788.07 (Rupees One Thousand Seven Hundred EightyEight(Paise Seven) Only
(D)	Collection of 15 cm to 23 cm hard river boulder including stacking in measurable stacks not more than 1.00 M in height at quarry site and complete as directed.	<i>CuM</i>	Rs. 1164.65 (Rupees One Thousand One Hundred SixtyFour(Paise SixtyFive) Only

1.3 HARD RIVER GRAVEL

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| (A) Collection of hard river gravel, chips of size 6 mm to 20 mm free from dust and dirt from quarry including loading and unloading etc, complete as directed. | <i>CuM</i> Rs. 1412.01
(Rupees One Thousand Four Hundred Twelve(Paise One) Only |
| (B) Collection of hard river gravel, chips of size 13 mm to 25 mm free from dust and dirt from quarry including loading and unloading etc, complete as directed. | <i>CuM</i> Rs. 1278.59
(Rupees One Thousand Two Hundred SeventyEight(Paise FiftyNine) Only |
| (C) Collection of hard river gravel of size 5 cm to 15 cm free from dust and dirt from quarry including loading and unloading etc, complete as directed. | <i>CuM</i> Rs. 1291.57
(Rupees One Thousand Two Hundred NinetyOne(Paise FiftySeven) Only |
| (D) Collection of hard river gravel of size 13 mm to 38 mm free from dust and dirt from quarry including loading and unloading etc, complete as directed. | <i>CuM</i> Rs. 1158.16
(Rupees One Thousand One Hundred FiftyEight(Paise Sixteen) Only |

1.4 PEA GRAVEL

Collection of 4 mm to 8 mm river pea gravel free from dust, dirt and other foreign materials, collecting from approved quarry including double screening, loading, unloading, local carriage and stacking in measurable stacks at site not more than 1.00 M height and complete as directed.

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|---------------------------------------|--|
| (i) Without Contractor's Profit & GST | <i>CuM</i> Rs. 975.05
(Rupees Nine Hundred SeventyFive(Paise Five) Only |
| (ii) With Contractor's Profit & GST | <i>CuM</i> Rs. 1265.61
(Rupees One Thousand Two Hundred SixtyFive(Paise SixtyOne) Only |

1.5 HARD BROKEN STONE

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| (A)(i) Collection of hard broken stone of size 6 mm to 20 mm from river boulder free from dust and dirt and foreign materials including stacking at quarry site, complete as directed. | <i>CuM</i> Rs. 3116.80
(Rupees Three Thousand One Hundred Sixteen(Paise Eighty) Only |
| (ii) Collection of hard broken stone of size 6 mm to 20 mm from blasted boulder free from dust and dirt and foreign materials including stacking at quarry site, complete as directed. | <i>CuM</i> Rs. 3595.63
(Rupees Three Thousand Five Hundred NinetyFive(Paise SixtyThree) Only |
| (B)(i) Collection of hard broken stone of size 13 mm to 25 mm from river boulder free from dust and dirt and foreign materials including stacking at quarry site, complete as directed. | <i>CuM</i> Rs. 2983.39
(Rupees Two Thousand Nine Hundred EightyThree(Paise ThirtyNine) Only |
| (ii) Collection of hard broken stone of size 13 mm to 25 mm from blasted boulder free from dust and dirt and foreign materials including stacking at quarry site, complete as directed. | <i>CuM</i> Rs. 3449.24
(Rupees Three Thousand Four Hundred FortyNine(Paise TwentyFour) Only |
| (C)(i) Collection of hard broken stone of size 13 mm to 38 mm from river boulder free from dust and dirt and foreign materials including stacking at quarry site, complete as directed. | <i>CuM</i> Rs. 2716.56
(Rupees Two Thousand Seven Hundred Sixteen(Paise FiftySix) Only |
| (ii) Collection of hard broken stone of size 13 mm to 38 mm from blasted boulder free from dust and dirt and foreign materials including stacking at quarry site, complete as directed. | <i>CuM</i> Rs. 3227.84
(Rupees Three Thousand Two Hundred TwentySeven(Paise EightyFour) Only |
| 1.6 Collection of sand gravel (40% sand and 60% gravel of size 25 mm to 60 mm) free from dust and dirt including stacking in measurable stacks at quarry site and complete as directed. | <i>CuM</i> Rs. 898.91
(Rupees Eight Hundred NinetyEight(Paise NinetyOne) Only |

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2. CARRIAGE

Sl No	Name of Item	Unit	Rate
2.1	Carriage of boulders, gravels, metal screening, stacking in measurable stacks at site, complete as directed.		
 (A) For Normal Road upto 25.00 KM			
 (i) Without Contractor's Profit & GST			
		: <i>CuM</i>	Rs. 841.43 (Rupees Eight Hundred FourtyOne(Paise FourtyThree) Only
		: <i>CuM</i> / <i>KM</i>	Rs. 33.66 (Rupees ThirtyThree(Paise SixtySix) Only
 (ii) With Contractor's Profit & GST			
		: <i>CuM</i>	Rs. 1092.18 (Rupees One Thousand NinetyTwo(Paise Eighteen) Only
		: <i>CuM</i> / <i>KM</i>	Rs. 43.69 (Rupees FourtyThree(Paise SixtyNine) Only
 (B) For 1st KM of Quarry Road			
 (i) Without Contractor's Profit & GST			
		<i>CuM</i>	Rs. 81.73
		/ <i>KM</i>	(Rupees EightyOne(Paise SeventyThree) Only
 (ii) With Contractor's Profit & GST			
		<i>CuM</i>	Rs. 106.08
		/ <i>KM</i>	(Rupees One Hundred Six(Paise Eight) Only
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3. JUNGLE CLEARANCE

SI No	Name of Item	Unit	Rate
3.1	Cutting jungles and trees upto 50 cm girth including uprooting roots and stumps and removing them from site of work etc, complete as directed.		
	(i) Light jungles	SqM	Rs. 17.86 (Rupees Seventeen(Paise EightySix) Only
	(ii) Medium jungles	SqM	Rs. 25.01 (Rupees TwentyFive(Paise One) Only
	(iii) Heavy jungles	SqM	Rs. 41.68 (Rupees FourtyOne(Paise SixtyEight) Only
3.2	FELLING AND REMOVING		
	(A) Bamboo clumps:	SqM	Rs. 418.54 (Rupees Four Hundred Eighteen(Paise FiftyFour) Only
	(B) Bamboo clumps including uprooting stumps:	SqM	Rs. 492.90 (Rupees Four Hundred NinetyTwo(Paise Ninety) Only
	(C) Cutting trees including uprooting and removing where necessary		
	(i) 50 cm to 100 cm girth	No.	Rs. 345.07 (Rupees Three Hundred FourtyFive(Paise Seven) Only
	(ii) 100 cm to 150 cm girth	No.	Rs. 752.34 (Rupees Seven Hundred FiftyTwo(Paise ThirtyFour) Only

(iii) 150 cm to 180 cm girth	No.	Rs. 1592.84 (Rupees One Thousand Five Hundred NinetyTwo(Paise EightyFour) Only
(iv) Above 180 cm girth	No.	Rs. 2853.59 (Rupees Two Thousand Eight Hundred FiftyThree(Paise FiftyNine) Only
(D) Tea Bushes	No.	Rs. 18.39 (Rupees Eighteen(Paise ThirtyNine) Only
(E) Tea Bushes including uprooting	No.	Rs. 65.14 (Rupees SixtyFive(Paise Fourteen) Only
(F) Cutting and clearing bushes consisting of plants and all sorts of bamboos including uprooting and removing as necessary and filling up the holes with earth including dressing, ramming, complete as directed.	SqM	Rs. 47.22 (Rupees FortySeven(Paise TwentyTwo) Only
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4. SURVEYING

Sl No	Name of Item	Unit	Rate
4.1	Carrying out compass survey including chaining, marking, pegging, carrying instruments and clearing jungles and other obstructions, complete as directed.	<i>KM</i>	Rs. 4019.85 (Rupees Four Thousand Nineteen(Paise EightyFive) Only
4.2	Carrying out compass survey including chaining, marking, pegging, carrying instruments and clearing jungles and other obstructions, complete as directed.	<i>SqKM</i>	Rs. 33509.31 (Rupees ThirtyThree Thousand Five Hundred Nine(Paise ThirtyOne) Only

<p>4.3 Carrying out levelling survey taking long section and cross section at 30 M interval of proposed canal system, afflux bund, approach road and along the stream including chaining, pegging, holding staff, carrying out instrument, clearing jungle etc, complete as directed.</p>	<p><i>KM</i></p>	<p>Rs. 34878.73 (Rupees ThirtyFour Thousand Eight Hundred SeventyEight(Paise SeventyThree) Only</p>
<p>4.4 Fly levelling for checking the level after completion of survey along the existing canal and connection of BM pillars.</p>	<p><i>KM</i></p>	<p>Rs. 3332.01 (Rupees Three Thousand Three Hundred ThirtyTwo(Paise One) Only</p>
<p>4.5 Supplying wooden peg of different sizes including pointing one end etc, complete as directed.</p>		
<p>(i) size: 10 cm x 10 cm x 120 cm</p>	<p><i>No.</i></p>	<p>Rs. 1323.31 (Rupees One Thousand Three Hundred TwentyThree(Paise ThirtyOne) Only</p>
<p>(ii) size: 7.5 cm x 7.5 cm x 90 cm</p>	<p><i>No.</i></p>	<p>Rs. 505.10 (Rupees Five Hundred Five(Paise Ten) Only</p>
<p>(iii) size: 5.0 cm x 5.0 cm x 60 cm</p>	<p><i>No.</i></p>	<p>Rs. 195.40 (Rupees One Hundred NinetyFive(Paise Fourty) Only</p>
<p>4.6 Supplying of wooden pegs of size 0.60 M x 0.045 M x 0.045 M made of 2nd class local wood.</p>	<p><i>No.</i></p>	<p>Rs. 104.93 (Rupees One Hundred Four(Paise NinetyThree) Only</p>
<p>4.7 Carrying out block contour survey of the commanded area covering stream, dong, channel, road etc. and the whole area considering square block system and spot system and spot levels are to be within 30 M x 30 M for preparation of contour including clearing light jungles, chaining, pegging holding staff, umbrella and compass lining etc. where required, complete as directed.</p>	<p><i>Hectare</i></p>	<p>Rs. 2030.97 (Rupees Two Thousand Thirty(Paise NinetySeven) Only</p>

4.8	Carrying out levelling survey, taking long section including cross section at 30 M interval of proposed canal system, afflux bund, guide bund, approach road and along the stream including chaining, pegging, holding staff, carrying out instrument, clearing jungle etc, complete as directed.	KM	Rs. 32836.10 (Rupees ThirtyTwo Thousand Eight Hundred ThirtySix(Paise Ten) Only
4.9	Carrying out levelling survey for taking long section of <i>field channel</i> at an interval not more than 30 M or part thereof including ranging, chaining, holding staff, driving pegs, clearing light jungles and carrying survey materials etc, complete as directed.	KM	Rs. 3057.38 (Rupees Three Thousand FiftySeven(Paise ThirtyEight) Only
4.10	Supplying wooden hammer of size 15 cm x 10 cm with 45 cm long & 5 cm wooden handle etc, complete as directed.	No.	Rs. 948.74 (Rupees Nine Hundred FortyEight(Paise SeventyFour) Only
4.11	Construction of R.C.C BM Pillar of size 0.15 M X 0.10 M in proportion 1:2:4 with required reinforcement including E/W in excavation, brick soling, centering, shuttering and propping, etc, complete as directed.	No.	Rs. 4706.34 (Rupees Four Thousand Seven Hundred Six(Paise ThirtyFour) Only
4.12	Final Survey before and after execution across existing damaged canal system for checking cross section and long section at the interval of 25 M including supplying of labour and other materials such as jati bamboo kamies, coir rope, paint and local wood chainage peg of size 1½" x 1½" x 3' etc, complete as directed.	KM	Rs. 17748.33 (Rupees Seventeen Thousand Seven Hundred FortyEight(Paise ThirtyThree) Only

5. TURFING

Sl No	Name of Item	Unit	Rate
5.1	Turfing with grass sode of largest possible rectangular and minimum size 30 cm X 30 cm X 10 cm placing closely after dressing hard the surface and fixing sode with split bamboo pegs, watering till the grass grows with lead up to 90 M and lift of 1.50 M, complete as directed.	SqM	Rs. 28.15 (Rupees TwentyEight(Paise Fifteen) Only

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6. EARTHWORK

Sl No	Name of Item	Unit	Rate
A. EARTHWORK IN EXCAVATION			
6.1	Earthwork in excavation in irrigation canal to the design section and grade by depositing the spoils in the form of embankment in 15 cm layers on both banks as necessary including clearing light jungle, removing trees upto 15 cm dia and uprooting roots and stumps etc. from the seat of the embankment and canal free from all vegetation including breaking clods not more than 10 mm cube, ramming, dressing and roughening the seat of the embankment with a lead upto 30 M and lift upto 1.50 M, complete as directed.		
	(A) In ordinary Soil	<i>CuM</i>	Rs. 303.62 (Rupees Three Hundred Three(Paise SixtyTwo) Only
	(B) In hard Soil		
	(i) Soil with gravel or morum upto 50 mm size	<i>CuM</i>	Rs. 426.50 (Rupees Four Hundred TwentySix(Paise Fifty) Only
	(ii) Soil with gravel or morum upto 30 cm size	<i>CuM</i>	Rs. 510.94 (Rupees Five Hundred Ten(Paise NinetyFour) Only
	(iii) Soil with gravel or boulder above 30 cm size	<i>CuM</i>	Rs. 1745.77 (Rupees One Thousand Seven Hundred FortyFive(Paise SeventySeven) Only
6.2	EXTRA LEAD AND LIFT		
	(A) Extra lead for every 30 M or part thereof beyond initial lead of 30 M	<i>CuM</i>	Rs. 23.13 (Rupees TwentyThree(Paise Thirteen) Only
	(B) Extra lift for every 1.5 M or part thereof beyond initial lift of 1.5 M	<i>CuM</i>	Rs. 23.13 (Rupees TwentyThree(Paise Thirteen) Only

6.3 Earthwork in excavation in diversion / feeder channel to the design section and grade by depositing the spoils in the form of an embankment on either side to the design section and grade in layers not exceeding 15 cm thick including clearing light jungle and trees upto 15 cm dia and uprooting roots and stumps etc. from the seat of the embankment and canal and free from all vegetation including breaking clods not more than 10 mm cube, ramming, dressing, bailing out stagnant rain water necessary complete as directed with a lead upto 30 M and lift upto 1.50 M.

(A) In ordinary Soil

CuM **Rs. 310.13**
(Rupees Three Hundred Ten(Paise Thirteen) Only

(B) In hard Soil

(i) Soil mixed with gravel or morum upto 50 mm size

CuM **Rs. 433.01**
(Rupees Four Hundred ThirtyThree(Paise One) Only

(ii) Soil mixed with gravel or boulders upto 30 cm size

CuM **Rs. 514.93**
(Rupees Five Hundred Fourteen(Paise NinetyThree) Only

(iii) Soil mixed with gravel and boulders above 30 cm size

CuM **Rs. 3001.59**
(Rupees Three Thousand One(Paise FiftyNine) Only

6.4 Earthwork in excavation in foundation of canal structures in all types of soils as per design and drawing including dressing the foundation, shoring etc. removing the surplus spoils by head load to safe distance from the working place and depositing the required spoils in uniform layers, dressing, watering, breaking clods to not more than 10 mm cube with compensation, complete as directed at site. (Including bailing out stagnant rain water where necessary).

(A) In all types of soil (except soil mixed with gravel and boulder)

(i) For normal lead of 30 M and lift of 1.50 M

CuM **Rs. 355.14**
(Rupees Three Hundred FiftyFive(Paise Fourteen) Only

(ii) For lead upto 60 M and lift of 3 M	<i>CuM</i> Rs. 401.39 (Rupees Four Hundred One(Paise ThirtyNine) Only
(B) In soil mixed with gravel and boulder upto 30 cm size	
(i) For normal lead of 30 M and lift of 1.50 M	<i>CuM</i> Rs. 499.75 (Rupees Four Hundred NinetyNine(Paise SeventyFive) Only
(ii) For lead upto 60 M and lift of 3 M	<i>CuM</i> Rs. 546.00 (Rupees Five Hundred FourtySix) Only
24.15 6.5 Earthwork in excavation for diversion with channelisation in soil mixed with sand, gravel and different sizes of boulders upto mansize by JCB / front loader excavator and manual labour, removing the same to a safe distance upto 1 KM by means of vehicle and depositing the spoil in the form of spoils embankment / bank as required at site including dressing grading and cutting the sides slopes etc. complete as directed by the department.	<i>CuM</i> Rs. 1218.28 (Rupees One Thousand Two Hundred Eighteen(Paise TwentyEight) Only
6.6 Earthwork in excavation and removal of swelled up earth mixed with silt and slurry due to sand, bailing out water in foundation trenches upto required level including shuttering, shoring, dewatering by means of pump set etc. removing the spoils to a safer distance etc, complete as directed.	
(i) Without dewatering	<i>CuM</i> Rs. 1964.52 (Rupees One Thousand Nine Hundred SixtyFour(Paise FiftyTwo) Only
(ii) With dewatering	<i>CuM</i> Rs. 3255.89 (Rupees Three Thousand Two Hundred FiftyFive(Paise EightyNine) Only

6.7 Earthwork in excavation trenches of walls, retaining walls, footing of columns, steps and septic tank including refilling (return filling) the quantity as necessary after completion of works, breaking clods in return filling, dressing, ramming, watering etc. and removal of surplus earth with all lead and lift upto 2 metre as directed and specified in following classification of soils, including bailing out of water where necessary upto depth below the existing ground level as mentioned in the approved drawing and complete as directed and specified.

(A) In ordinary soil

CuM **Rs. 693.77**

(Rupees Six Hundred NinetyThree(Paise SeventySeven) Only

(B) In soft or laminated rock or medium shale

CuM **Rs. 701.57**

(Rupees Seven Hundred One(Paise FiftySeven) Only

(C) Extra for lift beyond 2.00 M upto 3.00 M for all classification of soils.

CuM **Rs. 192.00**

(Rupees One Hundred NinetyTwo) Only

6.8 Earthwork in cutting in river bank etc. to the design section and grade and removing the spoils to a safe distance including cutting, uprooting and removing trees upto 15 cm dia, uprooting and removing roots and stumps etc, including excavating the earth boulder sausages of 1.00 M dia, 50 cm under river bed shape, size and grade etc. with all lead and lift, complete as directed.

CuM **Rs. 595.25**

(Rupees Five Hundred NinetyFive(Paise TwentyFive) Only

6.9 Earthwork in excavation in foundation of structures by means of Hydraulic Excavator in all soils including mud, silt, sandy clay from the river bed, etc, including clearing the side, dressing, etc. and removing the earth by loading to dumpers for further carriage to a safe distance, complete as directed. (0.30 CuM bucket)

CuM **Rs. 875.02**

(Rupees Eight Hundred SeventyFive(Paise Two) Only

<p>6.10 Earthwork in excavation of foundation trenches including filling up sides of trenches and removal of spoils after completion of foundation, dressing, ramming, shoring etc. complete including bailing out water, where necessary, in ordinary soil.</p>	<p><i>CuM</i> Rs. 378.58 (Rupees Three Hundred SeventyEight(Paise FiftyEight) Only</p>
<p>6.11 Carriage of excavated earth by dumpers with a lead upto 2 KM unloading to a safe place as directed including spreading, dressing etc, complete as directed.</p>	<p><i>CuM</i> Rs. 500.98 (Rupees Five Hundred (Paise NinetyEight) Only</p>
<p>6.12 Earthwork in excavation of deposited silt, sand and river debris from the seat of Guide Bunds /Afflux Bunds,etc. including clearing light jungle, removing tree upto 15 cm dia, and uprooting roots and stumps, etc, from the seat of Guide Bunds / Afflux Bunds, etc. including dressing, carriage of excavated earth and depositing the same in stacks at a distance not less than 80 M from the axis of the Guide Bunds / Afflux Bunds, etc. including bailing out of water where necessary upto depth below the existing ground level as mentioned in the approved drawing and complete as directed and specified.</p>	<p><i>CuM</i> Rs. 454.27 (Rupees Four Hundred FiftyFour(Paise TwentySeven) Only</p>
<p>6.13 Earthwork in excavation for removal of sediment from 24.2 bed of irrigation canal / river by head load to a safe distance including bailing out water, dressing the bed as directed for normal lead of 30 M and lift of 1.5 M. (Ordinary soil).</p>	<p><i>CuM</i> Rs. 286.79 (Rupees Two Hundred EightySix(Paise SeventyNine) Only</p>
<p>6.14 Earthwork in excavation in foudation of canal structures 24.5 to proper depth and grade as designed in hard strata of silt and clay deposits sandwiched therein gravals and all sizes of boulders constituting very hard mass and removing the excavated materials by head lead to a safe distance from the working place and refilling the side trenches of structure with ramming, compacting, dressing with all lead and lift as directed.</p>	<p><i>CuM</i> Rs. 1233.71 (Rupees One Thousand Two Hundred ThirtyThree(Paise SeventyOne) Only</p>
<p>6.15 Cost of dewatering involved during earthwork in 24.6 excavation of foundation trenches of canal structures (by pump) in soil mixed with silt and sand etc. Dewatering by using 1 no. 10 HP and 1 no. 5 HP water pump.</p>	<p><i>CuM</i> Rs. 326.07 (Rupees Three Hundred TwentySix(Paise Seven) Only</p>

24.7	6.16 Cost of dewatering involved during earthwork in excavation of foundation trenches of canal structures (by pump) in soil mixed with silt and sand etc. Dewatering by using 1 no. 10 HP and 2 nos. 5 HP water pump.	<i>CuM</i> Rs. 382.22 (Rupees Three Hundred EightyTwo(Paise TwentyTwo) Only
24.8	6.17 Earthwork for removing the cofferdam including depositing the earth near the canal embankment and slopes where necessary including removing the pitched boulders and stacking at safe distance in measurable stacks including ramming, dressing the earth etc. complete as directed.	<i>CuM</i> Rs. 539.46 (Rupees Five Hundred ThirtyNine(Paise FourtySix) Only
24.10	6.18 Earthwork in excavation of deposited silt mixed with slushy earth, sand, gravel etc. from the canal bed including resectioning, grading the canal bed, bailing out water where necessary and carrying and depositing the suitable earth on the top of both marginal embankment / side slopes in layers of 15 cm thick and breaking clods upto 15 mm cube by wooden rammer properly as directed lead upto 30 M and lift 1.5 M.	<i>CuM</i> Rs. 481.48 (Rupees Four Hundred EightyOne(Paise FourtyEight) Only
24.11(A)	6.19(A) Earthwork in excavation of deposited silt mixed with slushy earth, sand, gravel etc. from the canal bed including resectioning, grading the canal bed, bailing out water where necessary and carrying and depositing the suitable earth on the top of both marginal embankment / side slopes in layers of 15 cm thick and breaking clods upto 15 mm cube by wooden rammer properly as directed inclusive of constructing bamboo staircases with lead upto 60 M and lift of 1.5 M to 4 M.	<i>CuM</i> Rs. 581.41 (Rupees Five Hundred EightyOne(Paise FourtyOne) Only
	(B) Extra lift upto 9.0 M beyond the initial lift of 4.0 M	<i>CuM</i> Rs. 284.71 (Rupees Two Hundred EightyFour(Paise SeventyOne) Only

6.20 24.12	Earthwork in excavation of deposited silt mixed with muddy earth, sand, etc. from the canal bed including resectioning, grading the canal bed, bailing out water where necessary and carrying and depositing the suitable spoil on the top of both marginal embankment / side slopes in layers of 15 cm thick and breaking clods upto 15 mm cube by wooden rammer properly as directed lead upto 30 M and lift 1.5 M.	<i>CuM</i> Rs. 340.74 (Rupees Three Hundred Fourty(Paise SeventyFour) Only
6.21 24.13	Earthwork in excavation of foundation trenches for CC beams as per design, drawing in bed and side of irrigation canal including ramming, dressing etc. complete.	<i>CuM</i> Rs. 263.18 (Rupees Two Hundred SixtyThree(Paise Eighteen) Only
6.22 24.14	Earthwork in excavation in foundation trenches in all soils including gravel and boulders of various size etc. depressing the sub soil water table upto a depth of 4 M including providing earth filled empty cement bags and pallasiding as required to prevent sliding of slopes and filling the sides of the structures after completion of works with ramming, compacting, dressing complete as directed and removing the surplus spoils to a safe place as directed including all lead and lift.	
(i) Without dewatering		<i>CuM</i> Rs. 787.16 (Rupees Seven Hundred EightySeven(Paise Sixteen) Only
(ii) With dewatering		<i>CuM</i> Rs. 1092.98 (Rupees One Thousand NinetyTwo(Paise NinetyEight) Only
TRUCK CARRIAGE (Excavation)		
6.23 24.3	Carriage of excavated materials obtained out of earthwork in excavation of foundation trenches of canal structures by truck and depositing the same in the near by low lying areas within a distance of 4 KM from the worksite including loading unloading at both ends complete as directed.	<i>CuM</i> Rs. 398.51 (Rupees Three Hundred NinetyEight(Paise FiftyOne) Only

6.24 Earthwork in excavation of deposited silt mixed with sand, pebbles, debris, morums, slushy earth, gravel from irrigation canal including resectioning, reshaping and grading the canal bed and removing the excavated spoils by head load to the canal bank for lead upto 60 M and all lift for further removal by **truck carriage** including bamboo staircases complete as directed.

CuM **Rs. 1113.83**

(Rupees One Thousand One Hundred Thirteen(Paise EightyThree) Only

EARTHWORK IN HEADWORK

6.25 Earthwork in excavation in foundation of head work in all types of soil as per design and drawing including dressing the foundation, shoring etc. removing the surplus spoils by head load to safe distance from the working place and depositing the required spoils in uniform layers, dressing, watering, breaking clods to not more than 10 mm cube with compensation, complete as directed at site. (Including bailing out stagnant rain water where necessary).

(A) In all types of soil (except soil mixed with gravel and boulder)

(i) For normal lead of 30 M and lift of 1.50 M

CuM **Rs. 363.27**

(Rupees Three Hundred SixtyThree(Paise TwentySeven) Only

(ii) For lead upto 60 M and lift of 3 M

CuM **Rs. 409.53**

(Rupees Four Hundred Nine(Paise FiftyThree) Only

(B) In soil mixed with gravel and boulder upto 30 cm size

(i) For normal lead of 30 M and lift of 1.5 M

CuM **Rs. 574.89**

(Rupees Five Hundred SeventyFour(Paise EightyNine) Only

(ii) For lead upto 60 M and lift of 3 M

CuM **Rs. 621.14**

(Rupees Six Hundred TwentyOne(Paise Fourteen) Only

(C) In soil mixed with gravel and boulder above 30 cm size

(i) For lead of 30 M and lift of 1.5 M

CuM Rs. 765.40
(Rupees Seven Hundred
SixtyFive(Paise Fourty)
Only

(ii) For lead upto 60 M and lift of 3 M

CuM Rs. 811.66
(Rupees Eight Hundred
Eleven(Paise SixtySix)
Only

B. EARTHWORK IN FILLING

6.26 Earthwork in filling in Marginal bund / Guide bank / Afflux bund / Canal embankment etc. to the design section and grade by obtaining earth from outside borrow pits and filling in uniform layers not exceeding 15 cm thick including clearing light jungle, removing trees upto 15 cm dia and uprooting roots and stumps from the seat of embankment and borrow pit area, breaking clods not more than 10 mm cube, ramming, watering, dressing and roughening the seat of embankment, profiling etc. Paying compensation of earth borrowed from private or forest land if any, lead upto 30 M and lift upto 1.5 M, complete as directed.

(A) With ordinary Soil

CuM Rs. 452.01
(Rupees Four Hundred
FiftyTwo(Paise One) Only

(B) With hard Soil

(i) Soil with gravel or morum upto 50 mm size

CuM Rs. 563.75
(Rupees Five Hundred
SixtyThree(Paise
SeventyFive) Only

(ii) Soil with gravel and boulder upto 30 cm size

CuM Rs. 670.54
(Rupees Six Hundred
Seventy(Paise FiftyFour)
Only

(C) EXTRA LEAD AND LIFT

(i) Extra lead (for earthwork) for every 30 M or part thereof beyond the initial lead of 30 M.

CuM Rs. 22.41
(Rupees
TwentyTwo(Paise
FourtyOne) Only

(ii) Extra lift (for earthwork) for every 1.5 M or part thereof beyond the initial lift of 1.5 M.	<i>CuM</i> Rs. 22.41 (Rupees TwentyTwo(Paise FourtyOne) Only
6.27 Earthwork in back filling of structures, obtained from outside borrow pits filling in 15 cm layers, ramming, dressing, watering, including paying compensation of land if any (with lead up to 30 M and lift 1.5 M).	<i>CuM</i> Rs. 560.55 (Rupees Five Hundred Sixty(Paise FiftyFive) Only
6.28 River sand filling in plinth, canal bed, canal slopes, bases of structure, etc in layers not more than 150 mm thick including necessary carriage, watering etc, complete as directed as specified.	<i>CuM</i> Rs. 2025.12 (Rupees Two Thousand TwentyFive(Paise Twelve) Only
24.1 6.29 Earthwork in filling in canal embankment, approach road, afflux bund, guide bund etc. to the designed section and grade by obtaining earth from outside borrow pits and filling in uniform layers not exceeding 15 cm thick including clearing light jungles, removing trees upto 15 cm dia. and uprooting roots and stumps from the seat of embankment and borrow pits area, including breaking clods to not more then 10 mm cube ramming, dressing, watering and roughening the seat of embankment, profiling etc. paying compensation of earth borrowed from private land if any, lead upto 30 M and lift upto 1.5 M complete as directed. (By head lead in sandy, clayey or loamy soil).	<i>CuM</i> Rs. 463.28 (Rupees Four Hundred SixtyThree(Paise TwentyEight) Only
(i) Extra lead for every 30 M or part thereof beyond the initial lead of 30 M.	<i>CuM</i> Rs. 23.45 (Rupees TwentyThree(Paise FourtyFive) Only
(ii) Extra lift for every 1.5 M or part thereof beyond the initial lift of 1.5 M.	<i>CuM</i> Rs. 23.39 (Rupees TwentyThree(Paise ThirtyNine) Only
24.9 6.30 Compaction of earthwork by hand roller in canal embankment, bed, approach road etc complete as directed.	<i>CuM</i> Rs. 147.22 (Rupees One Hundred FourtySeven(Paise TwentyTwo) Only

TRUCK & CART CARRIAGE (Filling)

- 6.31(A) Earthwork in filling in all soils in plinth, canal embankment and bed filling as per design section and grade by **truck carriage** for a minimum distance of **4 KM** including paying compensation of earth obtained from private land if any loading, unloading, spreading the same including light jungle, removing trees upto 15 cm dia and uprooting roots and stumps etc. from the seat of the embankment, breaking clods not more than 10 mm cube, ramming, profiling etc. with all lift, complete as directed. (Payment will be made after deduction of 12.50 % shrinkage allowance from the gross quantity).
- CuM* **Rs. 768.48**
(Rupees Seven Hundred SixtyEight(Paise FortyEight) Only
- 6.31(B) Earthwork in filling in all soils in canal embankment and bed filling as per design section and grade by **cart carriage** for a minimum distance of **1 KM** including paying compensation of earth obtained from private land if any loading, unloading, spreading the same in embankment in layers not exceeding 15 cm thick including clearing light jungle, removing trees upto 15 cm dia and uprooting roots and stumps etc. from the seat of the embankment, breaking clods not more than 10 mm cube, ramming, dressing and roughening the seat of the embankment, profiling etc. with all lift, complete as directed. (Payment will be made after deduction of 12.50% shrinkage allowance from the gross quantity).
- CuM* **Rs. 679.04**
(Rupees Six Hundred SeventyNine(Paise Four) Only

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7. DEWATERING

Sl No	Name of Item	Unit	Rate
A. DEWATERING IN C C WORK			
7.1	Dewatering of CC works considering 1 no. 10 HP and 1 no. of 5 HP pump including POL, carriage and operator's pay etc.		
	(i) Without Contractor's Profit & GST	<i>CuM</i>	Rs. 295.57 (Rupees Two Hundred NinetyFive(Paise FiftySeven) Only

(ii) With Contractor's Profit & GST

CuM **Rs. 383.65**
(Rupees Three Hundred
EightyThree(Paise
SixtyFive) Only

B. DEWATERING IN EARTHWORK

7.2 Cost of dewatering in excavation of earthwork by running required no. of pumps including the cost of POL, hire charge, labour charge etc. and handling for a depth of maximum 3.2 M, complete as directed.

HP / Hr **Rs. 25.81**
(Rupees TwentyFive(Paise
EightyOne) Only

8. SCAFFOLDING

Sl No	Name of Item	Unit	Rate
8.1	Providing scaffolding work with rows of bhaluka bamboo and jati bamboo horizontal one row jati bamboo cross and placing second class planks of 0.025 M thick in between the rows tying with coir strings lacing two nos. vertical jati bamboo at both end including dismantling the scaffolding etc, complete as directed.	<i>CuM</i>	Rs. 106.16 (Rupees One Hundred Six(Paise Sixteen) Only

9. SHUTTERING

Sl No	Name of Item	Unit	Rate
9.1	Centering and shuttering including propping etc where necessary and removal of forms after completion of CC and RCC works, complete as directed. (Measurement to be taken on the face area timbered).		
	(A) Shuttering (Slab).	<i>SqM</i>	Rs. 369.38 (Rupees Three Hundred SixtyNine(Paise ThirtyEight) Only
	(B)(i) Shuttering (Beam) without Prop.	: <i>SqM</i>	Rs. 220.95 (Rupees Two Hundred Twenty(Paise NinetyFive) Only
	(Measure volume of concrete)	: <i>CuM</i>	Rs. 2209.49 (Rupees Two Thousand Two Hundred Nine(Paise FortyNine) Only

(ii) Shuttering (Beam) with Prop. : *SqM* **Rs. 267.57**
(Rupees Two Hundred SixtySeven(Paise FiftySeven) Only

(Measure volume of concrete) : *CuM* **Rs. 3567.57**
(Rupees Three Thousand Five Hundred SixtySeven(Paise FiftySeven) Only

(C) Shuttering (Column) : *SqM* **Rs. 543.35**
(Rupees Five Hundred FourtyThree(Paise ThirtyFive) Only

(Measure volume of concrete) : *CuM* **Rs. 7244.67**
(Rupees Seven Thousand Two Hundred FourtyFour(Paise SixtySeven) Only

9.2 Centering and shuttering including propping, nailing, bolting with earth oiling inside face etc and removal of forms after completion of CC and RCC works etc, complete as directed. (Measurement to be taken on the face area timbered).
(Abutment / Return Wall / Piers / Pedestal etc.)

(i) With 19 mm thick plyboard : *SqM* **Rs. 968.40**
(Rupees Nine Hundred SixtyEight(Paise Forty) Only

: *CuM* **Rs. 4260.98**
(Rupees Four Thousand Two Hundred Sixty(Paise NinetyEight) Only

(ii) With 38 mm thick wood plank : *SqM* **Rs. 377.14**
(Rupees Three Hundred SeventySeven(Paise Fourteen) Only

: *CuM* **Rs. 1659.43**
(Rupees One Thousand Six Hundred FiftyNine(Paise FourtyThree) Only

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10. C C WORK

Sl No	Name of Item	Unit	Rate
10.1	IN PROPORTION 1:1½:3 (M20)		
	(A) WITH HARD BROKEN STONE AGGREGATE 6 MM TO 20 MM		
	(i) CC work in proportion 1:1½:3 with hard broken river stone aggregate of size 6 mm to 20 mm including curing, with necessary timber shuttering, scaffolding where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).	CuM	Rs. 10517.78 (Rupees Ten Thousand Five Hundred Seventeen(Paise SeventyEight) Only
	(ii) CC work in proportion 1:1½:3 with hard broken River stone aggregate of size 6 mm to 20 mm including curing, <i>bailing out water</i> with necessary timber shuttering, scaffolding where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).	CuM	Rs. 10797.95 (Rupees Ten Thousand Seven Hundred NinetySeven(Paise NinetyFive) Only
	(iii) CC work in proportion 1:1½:3 with hard broken river stone aggregate from river boulder of size 6 mm to 20 mm including curing, <i>dewatering</i> with necessary timber shuttering, scaffolding where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).	CuM	Rs. 10901.43 (Rupees Ten Thousand Nine Hundred One(Paise FortyThree) Only
	(B) WITH HARD RIVER SHINGLES 6 MM TO 20 MM		
	(i) CC work in proportion 1:1½:3 with hard river shingles of size 6 mm to 20 mm including curing with necessary timber shuttering, scaffolding where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).	CuM	Rs. 8995.07 (Rupees Eight Thousand Nine Hundred NinetyFive(Paise Seven) Only
	(ii) CC work in proportion 1:1½:3 with hard river shingles of size 6 mm to 20 mm including curing, <i>bailing out water</i> with necessary timber shuttering, scaffolding where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).	CuM	Rs. 9275.24 (Rupees Nine Thousand Two Hundred SeventyFive(Paise TwentyFour) Only
	(iii) CC work in proportion 1:1½:3 with hard river shingles of size 6 mm to 20 mm including curing, <i>dewatering</i> with necessary timber shuttering, scaffolding where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).	CuM	Rs. 9378.72 (Rupees Nine Thousand Three Hundred SeventyEight(Paise SeventyTwo) Only

10.2 IN PROPORTION 1:2:4 (M15)

(A) WITH HARD BROKEN STONE AGGREGATE 6 MM TO 20 MM

- (i) CC work in proportion 1:2:4 in foundation / abutment / piers / wing walls etc. with hard broken stone aggregate of size 6 mm to 20 mm including curing with necessary timber shuttering, scaffolding where necessary complete as directed. (Shuttering, scaffolding cost will be paid separately). **CuM Rs. 10493.53**
(Rupees Ten Thousand Four Hundred NinetyThree(Paise FiftyThree) Only
- (ii) CC work in proportion 1:2:4 in foundation / abutment / piers / wing walls etc. with hard broken stone aggregate of size 6 mm to 20 mm including curing, *bailing out water* with necessary timber shuttering, scaffolding where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately). **CuM Rs. 10773.70**
(Rupees Ten Thousand Seven Hundred SeventyThree(Paise Seventy) Only
- (iii) CC work in proportion 1:2:4 in foundation / abutment / piers / wing walls etc. with hard broken stone aggregate of size 6 mm to 20 mm including curing, *dewatering* with necessary timber shuttering, scaffolding etc. where necessary complete as directed. (Shuttering, scaffolding cost will be paid separately). **CuM Rs. 10877.18**
(Rupees Ten Thousand Eight Hundred SeventySeven(Paise Eighteen) Only

(B) WITH HARD RIVER SHINGLES 6 MM TO 20 MM

- (i) CC work in proportion 1:2:4 in foundation / abutment / piers / wing walls etc. with hard river shingles of size 6 mm to 20 mm including curing with necessary timber shuttering, scaffolding where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately). **CuM Rs. 8725.57**
(Rupees Eight Thousand Seven Hundred TwentyFive(Paise FiftySeven) Only
- (ii) CC work in proportion 1:2:4 in foundation / abutment / piers / wing walls etc. with hard river shingles of size 6 mm to 20 mm including curing, *bailing out water* with necessary timber shuttering, scaffolding where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately). **CuM Rs. 9005.74**
(Rupees Nine Thousand Five(Paise SeventyFour) Only

<p>(iii) CC work in proportion 1:2:4 in foundation / abutment / piers / wing walls etc. with hard river shingles of size 6 mm to 20 mm including curing, <i>dewatering</i> with necessary timber shuttering, scaffolding where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).</p>	<p>CuM Rs. 9109.22 (Rupees Nine Thousand One Hundred Nine(Paise TwentyTwo) Only</p>
<p>(C) WITH HARD BROKEN STONE AGGREGATE 13 TO 38 MM</p>	
<p>(i) CC work in proportion 1:2:4 in foundation / abutment / piers / wing walls etc. with hard broken stone aggregate of size 13 mm to 38 mm including curing with necessary timber shuttering, scaffolding etc. where necessary complete as directed. (Shuttering, scaffolding cost will be paid separately).</p>	<p>CuM Rs. 10133.31 (Rupees Ten Thousand One Hundred ThirtyThree(Paise ThirtyOne) Only</p>
<p>(ii) CC work in proportion 1:2:4 in foundation / abutment / piers / wing walls etc. with hard broken stone aggregate of size 13 mm to 38 mm including curing with <i>bailing out water</i> with necessary timber shuttering, scaffolding etc. where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).</p>	<p>CuM Rs. 10413.48 (Rupees Ten Thousand Four Hundred Thirteen(Paise FortyEight) Only</p>
<p>(iii) CC work in proportion 1:2:4 in foundation / abutment / piers / wing walls etc. with hard broken stone aggregate of size 13 mm to 38 mm including curing including <i>dewatering</i> with necessary timber shuttering, scaffolding etc. where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).</p>	<p>CuM Rs. 10516.96 (Rupees Ten Thousand Five Hundred Sixteen(Paise NinetySix) Only</p>
<p>(D) WITH HARD RIVER SHINGLES 13 MM TO 38 MM</p>	
<p>(i) CC work in proportion 1:2:4 in foundation / abutment / piers / wing walls etc. with hard river shingles of size 13 mm to 38 mm including curing with necessary timber shuttering, scaffolding etc. where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).</p>	<p>CuM Rs. 8497.11 (Rupees Eight Thousand Four Hundred NinetySeven(Paise Eleven) Only</p>
<p>(ii) CC work in proportion 1:2:4 in foundation / abutment / piers / wing walls etc. with hard river shingles of size 13 mm to 38 mm including curing, <i>bailing out water</i> with necessary timber shuttering, scaffolding etc. where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).</p>	<p>CuM Rs. 8777.28 (Rupees Eight Thousand Seven Hundred SeventySeven(Paise TwentyEight) Only</p>

(iii) CC work in proportion 1:2:4 in foundation / abutment/ piers / wing walls etc. with hard river shingles of size 13 mm to 38 mm including curing with *dewatering* with necessary timber shuttering, scaffolding etc. where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).

CuM Rs. 8880.76
(Rupees Eight Thousand Eight Hundred Eighty(Paise SeventySix) Only

10.3 IN PROPORTION 1:3:6 (M10)

(A) WITH HARD BROKEN STONE AGGREGATE 13 MM TO 38 MM

(i) CC work in proportion 1:3:6 in foundation / abutment / piers / wing walls etc.with hard broken stone aggregate of size 13 mm to 38 mm including curing with necessary timber shuttering, scaffolding etc. where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).

CuM Rs. 9346.64
(Rupees Nine Thousand Three Hundred FourtySix(Paise SixtyFour) Only

(ii) CC work in proportion 1:3:6 in foundation / abutment / piers / wing walls etc. with hard broken stone aggregate of size 13 mm to 38 mm including curing, *bailing out water* with necessary timber shuttering, scaffolding etc. where necessary complete as directed. (Shuttering, scaffolding cost will be paid separately).

CuM Rs. 9626.81
(Rupees Nine Thousand Six Hundred TwentySix(Paise EightyOne) Only

(iii) CC work in proportion 1:3:6 in foundation / abutment / piers / wing walls etc.with hard broken stone aggregate of size 13 mm to 38 mm including curing, *dewatering* with necessary timber shuttering, scaffolding etc. where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).

CuM Rs. 9730.29
(Rupees Nine Thousand Seven Hundred Thirty(Paise TwentyNine) Only

(B) WITH HARD RIVER SHINGLES 13 MM TO 38 MM

(i) CC work in proportion 1:3:6 in foundation / abutment / piers / wing walls etc. with hard river shingles of size 13 mm to 38 mm including curing with necessary timber shuttering, scaffolding etc. where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).

CuM Rs. 7866.19
(Rupees Seven Thousand Eight Hundred SixtySix(Paise Nineteen) Only

(ii) CC work in proportion 1:3:6 in foundation / abutment / piers / wing walls etc. with hard river shingles of size 13 mm to 38 mm including curing, *bailing out water* with necessary timber shuttering, scaffolding etc. where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).

CuM Rs. 8146.35
(Rupees Eight Thousand One Hundred FortySix(Paise ThirtyFive) Only

(iii) CC work in proportion 1:3:6 in foundation / abutment / piers / wing walls etc. with hard river shingles of size 13 mm to 38 mm including curing, *dewatering* with necessary timber shuttering, scaffolding etc. where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).

CuM Rs. 8249.83
(Rupees Eight Thousand Two Hundred FortyNine(Paise EightyThree) Only

(C) WITH HARD BROKEN STONE AGGREGATE 13 MM TO 25 MM

(i) CC work in proportion 1:3:6 in foundation / abutment / piers / wing walls etc. with broken stone aggregate of size 13 mm to 25 mm including curing with timber shuttering, scaffolding etc. where necessary complete as directed. (Shuttering, scaffolding cost will be paid separately).

CuM Rs. 9545.39
(Rupees Nine Thousand Five Hundred FortyFive(Paise ThirtyNine) Only

(ii) CC work in proportion 1:3:6 in foundation / abutment / piers / wing walls etc. with hard broken stone aggregate of size 13 mm to 25 mm including curing, *bailing out water* with timber shuttering, scaffolding etc. where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).

CuM Rs. 9825.56
(Rupees Nine Thousand Eight Hundred TwentyFive(Paise FiftySix) Only

(iii) CC work in proportion 1:3:6 in foundation / abutment / piers / wing walls etc. with hard broken stone aggregate of size 13 mm to 25 mm including curing, *dewatering* with timber shuttering, scaffolding etc. where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).

CuM Rs. 9929.04
(Rupees Nine Thousand Nine Hundred TwentyNine(Paise Four) Only

(D) WITH HARD RIVER SHINGLES 13 MM TO 25 MM

(i) CC work in proportion 1:3:6 in foundation / abutment / piers / wing walls etc. with hard river shingles of size 13 mm to 25 mm including curing with timber shuttering, scaffolding etc. where necessary complete as directed. (Shuttering, scaffolding cost will be paid separately).

CuM Rs. 7976.98
(Rupees Seven Thousand Nine Hundred SeventySix(Paise NinetyEight) Only

(ii) CC work in proportion 1:3:6 in foundation / abutment / piers / wing walls etc. with hard river shingles of size 13 mm to 25 mm including curing, *bailing out water* with timber shuttering, scaffolding etc. where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).

CuM Rs. 8257.15
(Rupees Eight Thousand Two Hundred FiftySeven(Paise Fifteen) Only

(iii) CC work in proportion 1:3:6 in foundation / abutment / piers / wing walls etc. with hard river shingles of size 13 mm to 25 mm including curing, *dewatering* with timber shuttering, scaffolding etc. where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).

CuM Rs. 8360.63
(Rupees Eight Thousand Three Hundred Sixty(Paise SixtyThree) Only

10.4 IN PROPORTION 1:4:8 (M5)

(A) WITH HARD BROKEN STONE AGGREGATE 13 MM TO 38 MM

(i) CC work in proportion 1:4:8 in foundation / abutment / piers / wing walls etc. with hard broken stone aggregate of size 13 mm to 38 mm including curing with necessary timber shuttering, scaffolding etc. where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).

CuM Rs. 8933.80
(Rupees Eight Thousand Nine Hundred ThirtyThree(Paise Eighty) Only

(ii) CC work in proportion 1:4:8 in foundation / abutment / piers / wing walls etc.with hard broken stone aggregate of size 13 mm to 38 mm including curing, *bailing out water* with necessary timber shuttering, scaffolding etc. where necessary complete as directed. (Shuttering, scaffolding cost will be paid separately).

CuM Rs. 9213.96
(Rupees Nine Thousand Two Hundred Thirteen(Paise NinetySix) Only

(iii) CC work in proportion 1:4:8 in foundation/ abutment/ piers/ wing walls etc. with hard broken stone aggregate of size 13 mm to 38 mm including curing and *dewatering* with necessary timber shuttering, scaffolding etc. where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).

CuM Rs. 9317.44
(Rupees Nine Thousand Three Hundred Seventeen(Paise FortyFour) Only

(B) WITH HARD RIVER SHINGLES 13 MM TO 25 MM

(i) CC work in proportion 1:4:8 in foundation / abutment / piers / wing walls etc. with hard river shingles of size 13 mm to 38 mm including curing with necessary timber shuttering, scaffolding etc. where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).

CuM Rs. 7366.10
(Rupees Seven Thousand Three Hundred SixtySix(Paise Ten) Only

(ii) CC work in proportion 1:4:8 in foundation / abutment / piers / wing walls etc. with hard river shingles of size 13 mm to 38 mm including curing, *bailing out of water* with necessary timber shuttering, scaffolding etc. where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).

CuM **Rs. 7646.26**
(Rupees Seven Thousand Six Hundred FourtySix(Paise TwentySix) Only

(iii) CC work in proportion 1:4:8 in foundation/ abutment/ piers/ wing walls etc. with hard river shingles of size 13 mm to 38 mm including curing, *dewatering* with necessary timber shuttering, scaffolding etc. where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).

CuM **Rs. 7749.74**
(Rupees Seven Thousand Seven Hundred FourtyNine(Paise SeventyFour) Only

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11. P C C WORK WITH PLUM

Sl No	Name of Item	Unit	Rate
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**11.1 PLAIN CC WORK WITH 40% PLUM HARD BOULDER IN PROPORTION 1:3:6
(A) WITH HARD BLASTED BOULDER**

(i) Plain CC work in 40% plum hard blasted boulder of 15 cm to 23 cm size and filled interstices with 60% cement concrete in proportion 1:3:6 with 13 mm to 38 mm size stone aggregate including curing, shuttering etc, complete as directed. (Shuttering cost will be paid separately).

CuM **Rs. 7275.34**
(Rupees Seven Thousand Two Hundred SeventyFive(Paise ThirtyFour) Only

(ii) Plain CC work in 40% plum hard blasted boulder of 15 cm to 23 cm size and filled interstices with 60% cement concrete in proportion 1:3:6 with 13 mm to 38 mm size stone aggregate including curing, *dewatering* shuttering etc, complete as directed. (Shuttering cost will be paid separately).

CuM **Rs. 7658.98**
(Rupees Seven Thousand Six Hundred FiftyEight(Paise NinetyEight) Only

(iii) Plain CC work in 40% plum hard blasted boulder of 15 cm to 23 cm size and filled interstices with 60% cement concrete in proportion 1:3:6 with 13 mm to 38 mm size river shingles including curing, shuttering etc, complete as directed. (Cost of shuttering will be paid separately).

CuM **Rs. 6387.06**
(Rupees Six Thousand Three Hundred EightySeven(Paise Six) Only

(iv) Plain CC work in 40% plum hard blasted boulder of 15 cm to 23 cm size and filled interstices with 60% cement concrete in proportion 1:3:6 with 13 mm to 38 mm size river shingles including curing, *dewatering*, shuttering etc, complete as directed. (Shuttering cost will be paid separately).

CuM **Rs. 6770.71**
(Rupees Six Thousand Seven Hundred Seventy(Paise SeventyOne) Only

(B) WITH HARD RIVER BOULDER

(i) Plain CC work in 40% plum hard river boulder of 15 cm to 23 cm size and filled interstices with 60% cement concrete in proportion 1:3:6 with 13 mm to 38 mm size river shingles including curing, shuttering etc, complete as directed. (Shuttering cost will be paid separately).

CuM **Rs. 6137.69**
(Rupees Six Thousand One Hundred ThirtySeven(Paise SixtyNine) Only

(ii) Plain CC work in 40% plum hard river boulder of 15 cm to 23 cm size and filled interstices with 60% cement concrete in proportion 1:3:6 with 13 mm to 38 mm size river shingles including curing, *dewatering*, shuttering etc, complete as directed. (Shuttering cost will be paid separately).

CuM **Rs. 6521.34**
(Rupees Six Thousand Five Hundred TwentyOne(Paise ThirtyFour) Only

(iii) Plain CC work in 40% plum hard river boulder of 15 cm to 23 cm size and filled interstices with 60% cement concrete in proportion 1:3:6 with 13 mm to 38 mm size stone aggregate including curing, shuttering etc. complete as directed. (Shuttering cost will be paid separately).

CuM **Rs. 7025.97**
(Rupees Seven Thousand TwentyFive(Paise NinetySeven) Only

(iv) Plain CC work in 40% plum hard river boulder of 15 cm to 23 cm size and filled interstices with 60% cement concrete in proportion 1:3:6 with 13 mm to 38 mm size stone aggregate including curing, *dewatering* shuttering etc, complete as directed. (Shuttering cost will be paid separately).

CuM **Rs. 7409.62**
(Rupees Seven Thousand Four Hundred Nine(Paise SixtyTwo) Only

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12. RCC WORK

Sl No	Name of Item	Unit	Rate
12.1	IN PROPORTION 1:1½:3 (M20)		
	(A) WITH HARD BROKEN STONE AGGREGATE SIZE 6 MM TO 20 MM		
	(i) RCC work in slab, abutment cap and above abutment, pier cap, pedestal, dirt wall etc. in proportion 1:1½:3 with hard broken stone aggregate of size 6 mm to 20 mm with proper reinforcement as per design including curing etc, complete as directed with necessary timber shuttering, scaffolding etc. where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).	CuM	Rs. 11982.56 (Rupees Eleven Thousand Nine Hundred EightyTwo(Paise FiftySix) Only
	(ii) RCC work in slab, abutment cap and above abutment, pier cap, pedestals, dirt wall etc. in proportion 1:1½:3 with hard broken stone aggregate of size 6 mm to 20 mm with proper reinforcement as per design including necessary curing, <i>dewatering</i> etc. complete as directed with necessary timber shuttering, scaffolding etc. where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).	CuM	Rs. 12366.21 (Rupees Twelve Thousand Three Hundred SixtySix(Paise TwentyOne) Only
	(B) HARD RIVER SHINGLES SIZE 6 MM TO 20 MM		
	(i) RCC work in slab, abutment cap and above abutment, pier cap, pedestal, dirt wall etc. in proportion 1:1½:3 with hard river shingles of size 6 mm to 20 mm with proper reinforcement as per design including necessary curing etc. complete as directed with necessary timber shuttering, scaffolding etc. where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).	CuM	Rs. 10363.62 (Rupees Ten Thousand Three Hundred SixtyThree(Paise SixtyTwo) Only
	(ii) RCC work in slab, abutment cap and above abutment, pier cap, pedestal, dirt wall etc. in proportion 1:1½:3 with hard river shingles of size 6 mm to 20 mm with proper reinforcement as per design including necessary curing, <i>dewatering</i> etc. complete as directed with necessary timber shuttering, scaffolding etc. where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).	CuM	Rs. 10747.27 (Rupees Ten Thousand Seven Hundred FourtySeven(Paise TwentySeven) Only

12.2 IN PROPORTION 1:2:4 (M15)

(A) WITH HARD BROKEN STONE AGGREGATE SIZE 6 MM TO 20 MM

(i) RCC work in slab, abutment cap and above abutment, pier cap, pedestal, dirt wall etc. in proportion 1:2:4 with hard broken stone aggregate of size 6 mm to 20 mm with proper reinforcement as per design including curing etc. with necessary timber shuttering, scaffolding etc. where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).

CuM Rs. 11562.41
(Rupees Eleven Thousand Five Hundred SixtyTwo(Paise FourtyOne) Only

(ii) RCC work in slab, abutment cap and above abutment, pier cap, pedestals, dirt wall etc. in proportion 1:2:4 with hard broken stone aggregate of size 6 mm to 20 mm with proper reinforcement as per design including necessary curing, *dewatering* etc. with necessary timber shuttering, scaffolding etc. where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).

CuM Rs. 11816.87
(Rupees Eleven Thousand Eight Hundred Sixteen(Paise EightySeven) Only

(B) WITH HARD RIVER SHINGLES SIZE 6 MM TO 20 MM

(i) RCC work in slab, abutment cap and above abutment, pier cap, pedestal, dirt wall etc. in proportion 1:2:4 with hard river shingles of size 6 mm to 20 mm with proper reinforcement as per design including necessary curing etc. with necessary timber shuttering, scaffolding etc. where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).

CuM Rs. 9794.45
(Rupees Nine Thousand Seven Hundred NinetyFour(Paise FourtyFive) Only

(ii) RCC work in slab, abutment cap and above abutment, pier cap, pedestal, dirt wall etc. in proportion 1:2:4 with hard river shingles of size 6 mm to 20 mm with proper reinforcement as per design including necessary curing, *dewatering* etc. with necessary timber shuttering, scaffolding etc. where necessary, complete as directed. (Shuttering, scaffolding cost will be paid separately).

CuM Rs. 10178.10
(Rupees Ten Thousand One Hundred SeventyEight(Paise Ten) Only

12.3 RCC work in slab, abutment cap and above abutment,
24.19 pier cap, pedestal, dirt wall etc. in proportion 1:1:2
(M25) with hard broken stone aggregate of size 6 mm
to 20 mm with proper reinforcement as per design
including curing etc. complete as directed with
necessary timber shuttering, scaffolding etc. where
necessary complete as directed. (Reinforcement,
shuttering, scaffolding cost will be paid separately).

(i) Without shuttering

CuM **Rs. 12591.99**
(Rupees Twelve Thousand
Five Hundred
NinetyOne(Paise
NinetyNine) Only

(ii) With shuttering

CuM **Rs. 14801.48**
(Rupees Fourteen
Thousand Eight Hundred
One(Paise FourtyEight)
Only

SUPPLYING, FITTING, FIXING AND LAYING REINFORCEMENT

12.4 Supplying fitting fixing and laying reinforcement (TATA)
in position in RCC work including cutting, bending,
cranking with two piles 0.91 M (20 BWG) annealed wire
hooking tying, complete as directed.

Qntl **Rs. 12997.96**
(Rupees Twelve Thousand
Nine Hundred
NinetySeven(Paise
NinetySix) Only

12.5 **Machine mixing** charge of cement concrete /
24.19 reinforced cement concrete with different types of
concrete mixture machine of 10 / 7 CuFt capacity.

CuM **Rs. 289.29**
(Rupees Two Hundred
EightyNine(Paise
TwentyNine) Only

12.6 **Vibrating in CC / RCC work** with vibrator including local
24.18 carriage of vibrator etc. complete as directed.

CuM **Rs. 241.97**
(Rupees Two Hundred
FourtyOne(Paise
NinetySeven) Only

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13. BRICK WORK

Sl No	Name of Item	Unit	Rate
13.1	1st class brick work in cement mortar in abutment and wing wall, parapet wall etc, including racking out joints and curing etc, complete as directed.		
	(i) in proportion 1:4	<i>CuM</i>	Rs. 12855.31 (Rupees Twelve Thousand Eight Hundred FiftyFive(Paise ThirtyOne) Only
	(ii) in proportion 1:3	<i>CuM</i>	Rs. 13056.25 (Rupees Thirteen Thousand FiftySix(Paise TwentyFive) Only
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14. PLASTERING

Sl No	Name of Item	Unit	Rate
14.1	6 mm cement plastering including clearing surface and curing, complete as directed.		
	(i) In proportion 1:2	<i>SqM</i>	Rs. 235.84 (Rupees Two Hundred ThirtyFive(Paise EightyFour) Only
	(ii) In proportion 1:3	<i>SqM</i>	Rs. 224.59 (Rupees Two Hundred TwentyFour(Paise FiftyNine) Only
14.2	12 mm cement plastering including clearing surface and curing, complete as directed.		
	(i) In proportion 1:3	<i>SqM</i>	Rs. 299.65 (Rupees Two Hundred NinetyNine(Paise SixtyFive) Only
	(ii) In proportion 1:4	<i>SqM</i>	Rs. 281.89 (Rupees Two Hundred EightyOne(Paise EightyNine) Only

(iii) In proportion 1:5

SqM **Rs. 273.01**

(Rupees Two Hundred
SeventyThree(Paise One)
Only

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15. BRIDGE

Sl No	Name of Item	Unit	Rate
BAMBOO FOOT BRIDGE			
15.1	Construction of 1.20 M wide bamboo foot bridge with 100 mm dia bhaluka / barak bamboo posts driven 120 cm to 180 cm under ground 3 nos. of each row being at 3 M apart tied with cane or wire bhaluka / barak bamboo dham placed over the posts and tied with the cane or wire bhaluka / barak bamboo strut in each row both upstream and downstream jati bamboo long girth closely placed and tied with dham single layers of mat placed over 75 mm thick brush wood and tied with bhaluka / barak bamboo rail stand fixed in one side of the bridge, complete as directed.	<i>RM</i>	Rs. 1373.94 (Rupees One Thousand Three Hundred SeventyThree(Paise NinetyFour) Only
SUPPLYING AND DRIVING PILES			
15.2	Supplying and driving Sal piles 25 cm to 30 cm dia dressed to hard wood including marking length in every 30 cm interval and coaltaring 2 coats with best tar applied hot. (Rate is inclusive of required quantity of the tar).		
(A) WITH PILE ENGINE			
(i)	Portion of pile actually driven under ground.	<i>RM</i>	Rs. 7705.07 (Rupees Seven Thousand Seven Hundred Five(Paise Seven) Only
(ii)	Portion of pile to remain above ground.	<i>RM</i>	Rs. 6473.57 (Rupees Six Thousand Four Hundred SeventyThree(Paise FiftySeven) Only

(B) WITH HAND SHAKING

(i) Portion of pile actually driven under ground. *RM* **Rs. 6548.97**
(Rupees Six Thousand
Five Hundred
FourtyEight(Paise
NinetySeven) Only

(ii) Portion of pile to remain above ground. *RM* **Rs. 5988.64**
(Rupees Five Thousand
Nine Hundred
EightyEight(Paise
SixtyFour) Only

15.3 Supplying and driving Azar / Nahar / Nageswar / Zamil piles 25 cm to 30 cm dia dressed to hard wood including marking length in every 30 cm interval and coaltaring 2 coats with best tar applied hot. (Rate is inclusive of required quantity of the tar).

(A) WITH PILE ENGINE

(i) Portion of pile actually driven under ground. *RM* **Rs. 6648.83**
(Rupees Six Thousand Six
Hundred
FourtyEight(Paise
EightyThree) Only

(ii) Portion of pile to remain above ground. *RM* **Rs. 5417.33**
(Rupees Five Thousand
Four Hundred
Seventeen(Paise
ThirtyThree) Only

(B) WITH HAND SHAKING

(i) Portion of pile actually driven under ground. *RM* **Rs. 5517.06**
(Rupees Five Thousand
Five Hundred
Seventeen(Paise Six) Only

(ii) Portion of pile to remain above ground. *RM* **Rs. 4956.73**
(Rupees Four Thousand
Nine Hundred
FiftySix(Paise
SeventyThree) Only

WOODEN BRIDGE

- 15.4 Sal wood work including supplying fitting and fixing complete with necessary MS nuts bolts, screws etc. and coaltaring 2 coats with best tar applied hot (rate is inclusive of required quantity of the tar).
Undressed in floor planks collars, bracing standard wheel guard struts and railing, tracking planks (alternate railing to be done with checking in stage and wing), runner belts, rail post.
- CuM* **Rs. 190128.27**
(Rupees One Lakh Ninety Thousand One Hundred TwentyEight(Paise TwentySeven) Only
- 15.5 Supplying fitting and fixing sal timber beam and bearing beam rectangular in size fitted with MS cleats straps including supplying spikes etc. as necessary and coaltaring 2 coats with best tar applied hot. (Rate is inclusive of required quantity of the tar).
- CuM* **Rs. 118439.73**
(Rupees One Lakh Eighteen Thousand Four Hundred ThirtyNine(Paise SeventyThree) Only
- 15.6 Supplying fitting 25 cm to 30 cm dia Sal wood long beam dressed to hardwood including supplying & fixing with 20 mm dia MS bolts and nuts including coaltaring 2 coats with best tar, applied hot as directed. (Rate is inclusive of cost of coaltar).
- RM* **Rs. 4706.03**
(Rupees Four Thousand Seven Hundred Six(Paise Three) Only
- 15.7 Azar / Nahar / Nageswar / Zarul / Cham / Sundi / Gumi woodwork including supplying, fitting and fixing complete with necessary nut-bolts, nails, screws etc. and coaltaring 2 coats with coal tar applied hot as directed. (Rate is inclusive of required quantity of the tar).
Undressed in floor planks collars, bracing standard wheel guard struts and railing, runner belts, rail post, tracking planks.
- CuM* **Rs. 74359.65**
(Rupees SeventyFour Thousand Three Hundred FiftyNine(Paise SixtyFive) Only
- 15.8 Supplying fitting and fixing Azar / Nahar / Nageswar / Zarul sawn timber beam and bearing beam rectangular in size fitted with MS cleats, straps including spikes etc. as necessary and coaltaring 2 coats with best tar applied hot as directed. (Rate is inclusive of required quantity of
- CuM* **Rs. 86674.42**
(Rupees EightySix Thousand Six Hundred SeventyFour(Paise FortyTwo) Only
- 15.9 Supplying fitting 25 cm to 30 cm dia Azar / Nahar / Nageswar / Zarul wood long beam dressed to hard wood including supplying & fixing with 20 mm dia MS bolts and nuts including coaltaring 2 coats with best tar, applied hot as directed.
- RM* **Rs. 6656.92**
(Rupees Six Thousand Six Hundred FiftySix(Paise NinetyTwo) Only

<p>15.10 Supplying fitting and fixing RCC guard post of size 15 cm x 15 cm and 150 cm long of which 75 cm below ground including square base of size 45 cm x 45 cm x 15 cm with 4 nos. of 12 mm dia TS as main reinforcement and 6 mm dia stirrups at 30 cm c/c apart tying in position with black wire with cement concrete in proportion 1:2:4 with broken stone aggregate of size 6 mm to 20 mm including centering, shuttering and curing with 6 mm thick cement plastering in proportion 1:3 painted black & white alternatively in 23 cm stripe upto 75 cm from top keeping necessary goods etc. as per design and direction, complete as directed.</p>	<p><i>Post</i> Rs. 2064.29 (Rupees Two Thousand SixtyFour(Paise TwentyNine) Only</p>
<p>15.11 Supplying fitting and fixing 20 cm to 25 cm dia jungle wood dressed guard post 150 cm long 75 cm above ground and 72 cm to be driven under ground fitted with a horizontal struts size 0.05 M x 0.05 M x 0.55 M long at bottom with necessary nails including coaltaring 1 (one) coat the portion below ground and painting black & white 1 (one) coat alternately the portion above ground.</p>	<p><i>Post</i> Rs. 2700.22 (Rupees Two Thousand Seven Hundred (Paise TwentyTwo) Only</p>
<p>15.12 Screwing & joining of piles 25 cm to 30 cm dia dressed to hard wood 90 cm in length including supplying fitting and fixing with 2 nos. of 50 mm x 10 mm MS / FI clamps and 16 mm dia MS bolts and nuts etc, complete as directed.</p>	<p><i>Joint</i> Rs. 2553.16 (Rupees Two Thousand Five Hundred FiftyThree(Paise Sixteen) Only</p>
<p>15.13 Labour for taking out old piles of the bridge and stacking them at suitable places as directed.</p>	<p><i>Pile</i> Rs. 3180.49 (Rupees Three Thousand One Hundred Eighty(Paise FourtyNine) Only</p>
<p>15.14 Labour for driven piles 25 cm to 30 cm dia dressed to hard wood making length in every 30 cm including coaltaring with 2 coats with best tar applied hot including providing necessary scaffolding or staging as necessary. (Rate is inclusive of required quantity of tar).</p>	
<p>(A) With Pile Engine</p>	
<p>(i) Portion of pile actually driven under ground.</p>	<p><i>RM</i> Rs. 2513.07 (Rupees Two Thousand Five Hundred Thirteen(Paise Seven) Only</p>

(ii) Portion of pile to remain above ground.	<i>RM</i>	Rs. 1281.57
		(Rupees One Thousand Two Hundred EightyOne(Paise FiftySeven) Only
(B) With Hand Shaking		
(i) Portion of pile actually driven under ground.	<i>RM</i>	Rs. 1356.97
		(Rupees One Thousand Three Hundred FiftySix(Paise NinetySeven) Only
(ii) Portion of pile to remain above ground.	<i>RM</i>	Rs. 796.64
		(Rupees Seven Hundred NinetySix(Paise SixtyFour) Only
15.15 Labour for fitting & fixing RS joist, beam, CI saddle in position including necessary scaffolding, cutting them to required size drilling holes and supply and fixing with necessary bolt, nuts, painting 2 coats, complete as directed. (Rate inclusive. of cost of tar and steel paint).	<i>RM</i>	Rs. 1235.88
		(Rupees One Thousand Two Hundred ThirtyFive(Paise EightyEight) Only
15.16 Labour for fitting & fixing old RS joist, beam & old CI saddle in position including necessary scaffolding and fixing with necessary cutting them to required size drilling holes and supplying and fixing with necessary bolts, nuts, painting 2 coats, complete as directed. (Rate inclusive of cost of tar and steel paint).	<i>RM</i>	Rs. 1061.67
		(Rupees One Thousand SixtyOne(Paise SixtySeven) Only
15.17 Labour for end fitting MS / FI straps of cleats etc. in position including drilling holes and carrying the same to site.	<i>Qntl.</i>	Rs. 5419.25
		(Rupees Five Thousand Four Hundred Nineteen(Paise TwentyFive) Only
15.18 Labour charge for making 0.5 M x 0.50 M x 0.30 M size "U" shape MS flat iron strap from 150 mm x 12 mm size MS flat including providing 10 nos of holes and fitted with 0.35 M long 20 mm dia MS bolts including fitting lightly with bearing beam pits and RS beam etc, complete as directed. (Rate inclusive of the cost of MS bolts and nuts required).	<i>No.</i>	Rs. 861.64
		(Rupees Eight Hundred SixtyOne(Paise SixtyFour) Only

15.19	Labour for fitting and fixing wood work including supplying and fixing with new bolts, nuts and spikes and coaltar the coats applied hot. (Rate inclusive the cost of coaltar).	<i>RM</i>	Rs. 5100.10 (Rupees Five Thousand One Hundred (Paise Ten) Only
15.20	Labour for refitting wood work including sizing supplying and fixing necessary MS bolts, nuts and spikes and coaltar 1 (one) coat applied hot as directed. (Rate inclusive the cost of coaltar).	<i>RM</i>	Rs. 4690.13 (Rupees Four Thousand Six Hundred Ninety(Paise Thirteen) Only
15.21	Labour for fitting & fixing 25 cm to 30 cm dia long beam including supplying and fixing necessary MS bolts, nuts etc. and coaltar the 2 coats, complete as directed. (Rate inclusive the cost of coaltar).	<i>RM</i>	Rs. 817.22 (Rupees Eight Hundred Seventeen(Paise TwentyTwo) Only
15.22	Labour for refitting & refixing 25 cm to 30 cm dia long beam including supplying and fixing necessary MS bolts, nuts etc. and coaltar 1(one) coat applied as directed. (Rate inclusive the cost of coaltar).	<i>RM</i>	Rs. 901.01 (Rupees Nine Hundred One(Paise One) Only
15.23	Labour for taking out work of the bridge and refitting the same including supplying and fixing with necessary new MS bolts, nuts and spikes and nails etc. and coaltar the 1 (one) coat applied hot as directed. (Rate inclusive. the cost of coaltar).	<i>SqM</i>	Rs. 5714.83 (Rupees Five Thousand Seven Hundred Fourteen(Paise EightyThree) Only
15.24	PAINTING WORKS IN BRIDGE		
(A)	Clearing and painting work with the white paint : 1 (one) coat.	<i>SqM</i>	Rs. 93.93 (Rupees NinetyThree(Paise NinetyThree) Only
(B)	Clearing and coaltar wood works : 1 (one) coat.	<i>SqM</i>	Rs. 51.25 (Rupees FiftyOne(Paise TwentyFive) Only
(C)	Clearing and painting iron works with aluminium paint - 1 (one) coat.	<i>SqM</i>	Rs. 115.99 (Rupees One Hundred Fifteen(Paise NinetyNine) Only

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16. CULVERT

Sl No	Name of Item	Unit	Rate
16.1	Cement pointing including racking out joints and curing etc, complete as directed.		
	(i) In proportion 1:3	SqM	Rs. 211.79 (Rupees Two Hundred Eleven(Paise SeventyNine) Only
	(ii) In proportion 1:2	SqM	Rs. 222.53 (Rupees Two Hundred TwentyTwo(Paise FiftyThree) Only
LABOUR FOR JOINING HUME PIPE			
16.2	Labour for fitting and fixing hume pipe in position with collars including joining the cement mortar in proportion 1:3 and curing, including carrying the same from godown to site and complete as directed.		
	(i) For 30 cm to 60 cm dia	RM	Rs. 374.09 (Rupees Three Hundred SeventyFour(Paise Nine) Only
	(ii) For 60 cm to 90 cm dia	RM	Rs. 555.57 (Rupees Five Hundred FiftyFive(Paise FiftySeven) Only
	(iii) For 90 cm to 120 cm dia	RM	Rs. 897.84 (Rupees Eight Hundred NinetySeven(Paise EightyFour) Only
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17. R C C WATER TROUGH

Sl No	Name of Item	Unit	Rate
17.1	Construction and manufacturing of CC lined precast "U" shaped section in proportion 1:2:4 with hard broken stone aggregate of size 6 mm to 20 mm including supplying expanded 18 gauge metal, horizontal reinforcement and vibrating, carrying to stack yard, curing, etc, complete as directed.		
	(i) For 1 cusec	RM	Rs. 2291.85 (Rupees Two Thousand Two Hundred NinetyOne(Paise EightyFive) Only

(ii) For 1.5 cusec	<i>RM</i>	Rs. 3254.52 (Rupees Three Thousand Two Hundred FiftyFour(Paise FiftyTwo) Only
(iii) For 2 cusec	<i>RM</i>	Rs. 3601.67 (Rupees Three Thousand Six Hundred One(Paise SixtySeven) Only
17.2 Labour charge for laying and fixing RCC "U" shaped section in proper position and grade as per design drawing and specification including fitting and joints voids as of main concrete on top inside to wall finished with 12 mm thick cement mortar in proportion 1:3 including curing and local carriage, etc, complete as directed.	<i>RM</i>	Rs. 545.93 (Rupees Five Hundred FourtyFive(Paise NinetyThree) Only
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18. CANAL WORK

Sl No	Name of Item	Unit	Rate
18.1	Providing 50 mm wide expansion joints with bituminous compound mixed with coarse sand for canal work at an interval of 10 M apart including laying, fitting the compound in proper position, etc, complete as directed.	<i>RM</i>	Rs. 539.05 (Rupees Five Hundred ThirtyNine(Paise Five) Only
18.2	Soling in foundation at all levels including filling intersides, ramming etc complete as directed and of specified thickness with 9 cm brick on flat including sand packing.	<i>SqM</i>	Rs. 802.20 (Rupees Eight Hundred Two(Paise Twenty) Only
18.3	Labour for preparation of subgrade of lined canal section as per design drawing and grade by ramming and rolled to level and according to the required cross section of the typical lined canal including cutting, filling the existing canal section where necessary compacting the earth in layers in not more than 15 cm thick to form a firm compacted bed & side for lining including watering to obtain required moisture content where necessary etc, complete as directed.		
(i) For ordinary soil		<i>SqM</i>	Rs. 66.25 (Rupees SixtySix(Paise TwentyFive) Only

(ii) For sandy soil

SqM **Rs. 80.49**
(Rupees Eighty(Paise
FourtyNine) Only

18.4 CC Work in lined canal in prop 1:2:4 with river shingles of size 6 mm to 20 mm free from dust, dirt and other foreign materials conforming to IS 2116-1965 and 542-1962 as specified by the department, water used for mixing the mortar should be free from all impurities including laying the concrete over the subgrade, moistened thoroughly by hand placing / mechanical placing in canal of not more than 3 M sides with suitable joints in between including providing bed sleepers (cast-in-situ or pre cast) under joints in between including providing all sealing materials as per design and drawing before laying concrete including finishing the surface smooth, clean of all impurities with curing the bed by manual labours and side by sprinkling for at least 28 days etc, complete as directed. (Proper arrangement for obtaining clean water should be made at site).

CuM **Rs. 8386.85**
(Rupees Eight Thousand
Three Hundred
EightySix(Paise EightyFive
) Only

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19. PVC DISTRIBUTION SYSTEM

Sl No	Name of Item	Unit	Rate
19.1	Supplying, fitting, fixing PVC pipes (IS 12818, 6 kg/cm ² ; joining pipes with relevant cement, levelling, testing leakages etc, complete as directed. (Cost of E/W foundation trenches will be paid separately).		
	(i) For 110 mm dia	<i>RM</i>	Rs. 734.40 (Rupees Seven Hundred ThirtyFour(Paise Fourty) Only
	(ii) For 160 mm dia	<i>RM</i>	Rs. 1550.02 (Rupees One Thousand Five Hundred Fifty(Paise Two) Only
	(iii) For 200 mm dia	<i>RM</i>	Rs. 2515.39 (Rupees Two Thousand Five Hundred Fifteen(Paise ThirtyNine) Only

19.2 Supplying, fitting, fixing PVC equal tee joining with pipes with solvent cement testing leakages etc, complete as directed.

(i) Size : 110 mm x 110 mm x 110 mm

No. Rs. 958.61
(Rupees Nine Hundred FiftyEight(Paise SixtyOne) Only

(ii) Size : 160 mm x 160 mm x 160 mm

No. Rs. 2029.46
(Rupees Two Thousand TwentyNine(Paise FourtySix) Only

(iii) Size : 200 mm x 200 mm x 200 mm

No. Rs. 5339.36
(Rupees Five Thousand Three Hundred ThirtyNine(Paise ThirtySix) Only

19.3 Supplying, fitting, fixing PVC unequal tee joining with pipes with solvent cement, testing leakages etc, complete as directed.

(i) Size : 200 mm x 200 mm x 110 mm

No. Rs. 4106.26
(Rupees Four Thousand One Hundred Six(Paise TwentySix) Only

(ii) Size : 200 mm x 200 mm x 160 mm

No. Rs. 4625.46
(Rupees Four Thousand Six Hundred TwentyFive(Paise FourtySix) Only

(iii) Size : 160 mm x 160 mm x 110 mm

No. Rs. 1360.99
(Rupees One Thousand Three Hundred Sixty(Paise NinetyNine) Only

19.4 Supplying, fitting, fixing PVC reducer joining with pipes with solvent cement, testing leakages etc, complete as directed.

(i) Size : 160 mm x 110 mm

No. Rs. 655.57
(Rupees Six Hundred FiftyFive(Paise FiftySeven) Only

(ii) Size : 200 mm x 110 mm	No. Rs. 1164.38 (Rupees One Thousand One Hundred SixtyFour(Paise ThirtyEight) Only
(iii) Size : 200 mm x 160 mm	No. Rs. 1177.36 (Rupees One Thousand One Hundred SeventySeven(Paise ThirtySix) Only
19.5 Supplying, fitting, fixing PVC bend pipe size joining with pipes with solvent cement, testing leakages etc, complete as directed.	
(i) For 110 mm / 90 ⁰	No. Rs. 836.52 (Rupees Eight Hundred ThirtySix(Paise FiftyTwo) Only
(ii) For 160 mm / 90 ⁰	No. Rs. 1952.80 (Rupees One Thousand Nine Hundred FiftyTwo(Paise Eighty) Only
(iii) For 200 mm / 90 ⁰	No. Rs. 2874.38 (Rupees Two Thousand Eight Hundred SeventyFour(Paise ThirtyEight) Only
19.6 Supplying, fitting, fixing 110 mm dia NTP valve at the top of PVC rising pipe of spout chamber as per specification including local carriage, complete as directed.	No. Rs. 3704.78 (Rupees Three Thousand Seven Hundred Four(Paise SeventyEight) Only
19.7 Supplying, fitting, fixing 110 mm dia PVC rising pipe from the toe of main line including local carriage, testing leakage etc, complete as directed.	No. Rs. 1183.92 (Rupees One Thousand One Hundred EightyThree(Paise NinetyTwo) Only
19.8(A) Supplying, fitting, fixing of PVC threaded coupler (FTA) of size 110 mm dia fitting with solvent cement as per specification including local carriage, testing leakage etc, complete as directed.	No. Rs. 544.08 (Rupees Five Hundred FortyFour(Paise Eight) Only

19.8(B) Supplying, fitting, fixing of PVC threaded coupler fitted with flange (MTA) of size 110 mm dia fitting with solvent cement as per specification including local carriage, testing leakage etc, complete as directed.	No.	Rs. 835.30 (Rupees Eight Hundred ThirtyFive(Paise Thirty) Only
19.9 Supplying, fitting, fixing, joining of PVC end cap fitting with solvent cement as per specification including local carriage, testing leakage etc, complete as directed.		
(i) For 110 mm dia	No.	Rs. 359.85 (Rupees Three Hundred FiftyNine(Paise EightyFive) Only
(ii) For 160 mm dia	No.	Rs. 482.04 (Rupees Four Hundred EightyTwo(Paise Four) Only
(iii) For 200 mm dia	No.	Rs. 934.10 (Rupees Nine Hundred ThirtyFour(Paise Ten) Only
19.10 Removing of old PVC pipes and relaying, fitting, fixing, pipes in position after repairing and clearing debris, testing leakage including fitting with solvent cement etc, complete as directed. (Cost of any additional pipes and accessories will be paid separately).	RM	Rs. 575.79 (Rupees Five Hundred SeventyFive(Paise SeventyNine) Only
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20. SHEET PILING

Sl No	Name of Item	Unit	Rate
20.1	Supply of Z-type Sheet Pile of effective width 0.69 M, thickness 8 mm and average weight 68.30 Kg/M including loading and unloading.	MT	Rs. 142195.00 (Rupees One Lakh FortyTwo Thousand One Hundred NinetyFive) Only

<p>20.2 Providing and driving 'Z' type steel sheet pile of 0.69 M : effective width, 8 mm thick and average weight 68.30 kg/M to specified level and lines including cutting to proper size, making holes including painting sheet piles with two coats of anticorrosive bitumen paint and dewatering including necessary tools and plants and all other accessories, complete as directed. (Portion of sheet pile are to be embedded in concrete shall not be painted).</p>	<p><i>SqM</i> Rs. 24668.87 (Rupees TwentyFour Thousand Six Hundred SixtyEight(Paise EightySeven) Only</p>
<p>20.3 Driving 'Z' type steel sheet pile of 0.69 M effective width, 8 mm thick and average weight 68.30 kg/M to specified level and lines including cutting to proper size, making holes including painting sheet piles with two coats of anticorrosive bitumen paint and dewatering including necessary tools and plants and all other accessories, complete as directed. (Portion of sheet pile are to be embedded in concrete shall not be painted).</p>	<p><i>MT</i> Rs. 249460.48 (Rupees Two Lakh FourtyNine Thousand Four Hundred Sixty(Paise FourtyEight) Only</p>
<p>20.3 Driving 'Z' type steel sheet pile of 0.69 M effective width, 8 mm thick and average weight 68.30 kg/M to specified level and lines including cutting to proper size, making holes including painting sheet piles with two coats of anticorrosive bitumen paint and dewatering including necessary tools and plants and all other accessories, complete as directed. (Portion of sheet pile are to be embedded in concrete shall not be painted).</p>	<p><i>SqM</i> Rs. 10248.30 (Rupees Ten Thousand Two Hundred FourtyEight(Paise Thirty) Only</p>
<p>20.3 Driving 'Z' type steel sheet pile of 0.69 M effective width, 8 mm thick and average weight 68.30 kg/M to specified level and lines including cutting to proper size, making holes including painting sheet piles with two coats of anticorrosive bitumen paint and dewatering including necessary tools and plants and all other accessories, complete as directed. (Portion of sheet pile are to be embedded in concrete shall not be painted).</p>	<p><i>MT</i> Rs. 103634.52 (Rupees One Lakh Three Thousand Six Hundred ThirtyFour(Paise FiftyTwo) Only</p>

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21. PROTECTION WORK

Sl No	Name of Item	Unit	Rate
21.1 LABOUR CHARGE FOR BANK PITCHING			
(A)	Labour charge for pitching with one man size boulder including dressing and ramming the seat to proper size and slope, pitching etc. with local carriage of boulders from a distance of 60 M with lift upto 3 M, complete as directed.	<i>CuM</i>	Rs. 853.55 (Rupees Eight Hundred FiftyThree(Paise FiftyFive) Only
(B)	Labour charge for spreading of hard river gravel or broken stone of size 13 mm to 38 mm to the required thickness including dressing and ramming the seat before laying the materials as directed with a lead upto 30 M and lift upto 1.5 M, complete as directed.	<i>CuM</i>	Rs. 459.19 (Rupees Four Hundred FiftyNine(Paise Nineteen) Only

21.2 CONSTRUCTION OF BOULDER SAUSAGE

(A) Construction of 1.00 M dia boulder sausage including supplying of materials with 25 cm to 30 cm size boulders collecting from a lead of 25 KM encased in 15 cm mesh of 8G hexagonal wire netting and filling the voids between the boulders with stone not exceeding 18 cm in size tied with 8G galvanized tying wire at 30 cm apart, laid in position as directed including necessary local carriage of materials, paying necessary forest royalty including providing 1 (one) no. of jati bamboo horizontal runner along the top of the sausage with vertical bhaluka bamboo post 1.20 M apart driven at least 0.60 M below ground and tying with sausage etc, all complete as directed.

(i) With blasted boulder

RM **Rs. 4527.63**
(Rupees Four Thousand
Five Hundred
TwentySeven(Paise
SixtyThree) Only

(ii) With river boulder

RM **Rs. 4126.15**
(Rupees Four Thousand One
Hundred TwentySix(Paise
Fifteen) Only

(iii) Labour charge for making 1.00 M dia boulder sausage

RM **Rs. 709.77**
(Rupees Seven Hundred
Nine(Paise SeventySeven) Only

(B) Construction of 1.00 M square boulder sausage including supplying of materials with 25 cm to 30 cm size boulders collecting from a lead of 25 KM encased in 15 cm mesh of 8G hexagonal wire netting and filling the voids between the boulders with stone not exceeding 18 cm in size tied with 8G galvanized tying wire at 30 cm apart, laid in position as directed including necessary local carriage of materials, paying necessary forest royalty including providing 1 (one) no. of jati bamboo horizontal runner along the top of the sausage with vertical bhaluka bamboo post 1.20 M apart driven at least 0.60 M below ground and tying with sausage etc, all complete as directed.

(i) With blasted boulder

RM **Rs. 5697.44**
(Rupees Five Thousand Six
Hundred NinetySeven(Paise
FourtyFour) Only

(ii) With river boulder

RM **Rs. 5186.16**

(Rupees Five Thousand One Hundred EightySix(Paise Sixteen) Only

(C) Construction of 1.00 M x 1.00 M rectangular boulder sausage including supplying of materials with 25 cm to 30 cm size boulders collecting from a lead of 25 KM encased in 15 cm mesh of 8G hexagonal wire netting and filling the voids between the boulders with stone not exceeding 18 cm in size tied with 8G galvanized tying wire at 30 cm apart, laid in position as directed including necessary local carriage of materials, paying necessary forest royalty including providing 1 (one) no. of jati bamboo horizontal runner along the top of the sausage with vertical bhaluka bamboo post 1.20 M apart driven at least 0.60 M below ground and tying with sausage etc, all complete as directed.

(i) With blasted boulder

RM **Rs. 8062.66**

(Rupees Eight Thousand SixtyTwo(Paise SixtySix) Only

(ii) With river boulder

RM **Rs. 7295.74**

(Rupees Seven Thousand Two Hundred NinetyFive(Paise SeventyFour) Only

(D) Construction of 1.50 M x 1.00 M rectangular boulder sausage including supplying of materials with 25 cm to 30 cm size boulders collecting from a lead of 25 KM encased in 15 cm mesh of 8G hexagonal wire netting and filling the voids between the boulders with stone not exceeding 18 cm in size tied with 8G galvanized tying wire at 30 cm apart, laid in position as directed including necessary local carriage of materials, paying necessary forest royalty including providing 1 (one) no. of jati bamboo horizontal runner along the top of the sausage with vertical bhaluka bamboo post 1.20 M apart driven at least 0.60 M below ground and tying with sausage etc, all complete as directed.

(i) With blasted boulder

RM **Rs. 10427.87**

(Rupees Ten Thousand Four Hundred TwentySeven(Paise EightySeven) Only

(ii) With river boulder

RM **Rs. 9405.31**

(Rupees Nine Thousand
Four Hundred Five(Paise
ThirtyOne) Only

21.3 BAMBOO SPUR

(A) A' type bamboo spur with 75 mm dia whole jati bamboo placed at 23 cm c/c driven 90 cm below ground and 120 cm to 150 cm above ground tied with jati bamboo kamies on either sides at 45 cm apart horizontally with galvanized wire etc, complete as directed.

RM **Rs. 955.42**

(Rupees Nine Hundred
FiftyFive(Paise FourtyTwo
) Only

(B) A' type bamboo spur with 75 mm to 100 mm dia whole bhaluka bamboo placed at 23 cm c/c driven 90 cm below ground and 120 cm to 150 cm above ground tied with jati bamboo kamies on either sides at 45 cm apart horizontally with galvanized wire etc, complete as directed.

RM **Rs. 1035.35**

(Rupees One Thousand
ThirtyFive(Paise ThirtyFive
) Only

21.4 BAMBOO PORCUPINE

Construction and launching of bamboo porcupine made of 12 nos. of 2 M long whole matured Bhaluka bamboo of size 7.5 cm dia making 0.50 M x 0.50 M x 0.50 M size cube in middle and filling, fixing cross bhaluka bamboo 2 M long, 8 nos. of four sides of the cube as directed and nailing with patent nails of 30 cm long total 30 nos. at each points and joints as directed including bending the edges of the patents nails, tying each end of the joints as directed with 12 G galvanized wire closing the sides of the cubes with half bhaluka bamboo at 15 cm apart placed from the inside of main members on all sides including nailing with nails and bending the protruding edge, tying with 18 G wire making holes in each bamboo members with chisel filling the cubes with boulder including local carriage to the site and launching properly in river slope etc, complete as directed.

Each **Rs. 3747.86**

(Rupees Three Thousand
Seven Hundred
FourtySeven(Paise
EightySix) Only

21.5 BAMBOO PALLASIDING

- (A) Construction of whole bamboo single pallasiding with matured bhaluka bamboo post 7.5 cm to 10 cm dia 5 cm apart 1.5 M to 1.8 M above ground and 1 M to 1.2 M below ground with jati bamboo struts placed 1.2 M to 1.5 M apart tied with galvanized wire with 16 G to 18 G complete with 3 rows of horizontal half jati bamboo kamies, complete as directed.
- RM* **Rs. 1120.34**
(Rupees One Thousand One Hundred Twenty(Paise ThirtyFour) Only
- (B) Construction of whole bamboo single pallasiding with matured jati bamboo post of 6 cm to 7.5 cm dia fixed 15 cm clear apart 1.2 M to 1.5 M above ground and 1 M to 1.20 M below ground with jati bamboo struts placed 1.2 M to 1.5 M apart tied with galvanized wire with 16 G to 18 G with three rows of horizontal half jati bamboo double kamies fixed with 16 G to 18 G, complete as directed.
- RM* **Rs. 1111.25**
(Rupees One Thousand One Hundred Eleven(Paise TwentyFive) Only

21.6 LAYING CEMENT BAGS

- (A)(i) Supply and laying of cement bags filled with sand/ earth (as locally available) including stitching the mouth, laying, fixing in position as directed complete with supply of bags, sutlies etc, all complete as directed.
- Bag* **Rs. 59.17**
(Rupees FiftyNine(Paise Seventeen) Only
- (ii) Labour charge for filling the cement bags with sand / earth (as locally available) including stitching the mouth, laying the filled bags in position etc, all complete as directed.
- Bag* **Rs. 33.21**
(Rupees ThirtyThree(Paise TwentyOne) Only
- (B) Supplying and launching of trees branches of 50 to 75 mm dia and 2.5 M to 3.0 M long with green foliage tied in bundles (4 nos in a bundle) with coir string securely anchored to a strut of matured jati bamboo peg driven down atleast 10 cm and keeping 1.00 M above at a minimum safe distance of 7.50 M from the river bank with 8 G galvanized tying wire, tying the bundle with 2 nos earth / sand (as locally available) filled cement bags tied with coir string including payment of materials.
- Bundle* **Rs. 443.74**
(Rupees Four Hundred FortyThree(Paise SeventyFour) Only

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22. DISMANTLING

Sl No	Name of Item	Unit	Rate
22.1	For Bridge		
	Labour for dismantling all member of the bridge (except piles) and stacking them at suitable place as directed. (All members will be under custody of the Contractors till taken over by the Department).	<i>RM</i>	Rs. 1158.00 (Rupees One Thousand One Hundred FiftyEight) Only
22.2	For Culvert		
	(A) Dismantling the existing culvert including clearing and removing the dismantled materials to a safe place and stacking the serviceable material at a suitable place as directed.		
	(i) In Brick arch culvert	<i>CuM</i>	Rs. 1608.48 (Rupees One Thousand Six Hundred Eight(Paise FortyEight) Only
	(ii) In RCC slab culvert.	<i>CuM</i>	Rs. 2346.96 (Rupees Two Thousand Three Hundred FourtySix(Paise NinetySix) Only
	(iii) In ARMCO earthen pipe culvert.	<i>RM</i>	Rs. 821.53 (Rupees Eight Hundred TwentyOne(Paise FiftyThree) Only
	(B) Dismantling the CC abutment wall and wing wall of upper portion of ground level including removing the debris from the site of works as directed.	<i>RM</i>	Rs. 662.42 (Rupees Six Hundred SixtyTwo(Paise FortyTwo) Only
22.3	For Hume Pipe		
	Labour charge for dismantling / replacing the old damaged hume pipe of 1200 mm dia of canal structure and carriage of the same upto a lead of 30 M and lift of 2.5 M and depositing the same in a safe distance as directed.	<i>No.</i>	Rs. 2560.44 (Rupees Two Thousand Five Hundred Sixty(Paise FortyFour) Only

22.4 For Boulder Sausage

Dismantling of old servicable hexagonal wire netting encased boulder sausage including hammering digging carrying, unlifting the boulders including carriage upto 60 M lead and upto 3.60 M lift including stacking in suitable and measurable stacks etc, complete as directed.

CuM **Rs. 790.96**
(Rupees Seven Hundred
Ninety(Paise NinetySix)
Only

22.5 For Canal

(A) Labour charge for dismantling of old CC works of canal structures and carriage the spoils and depositing the same in a safe distance as directed.
: Carriage up to lead of 30 M and lift upto 1.50 M

CuM **Rs. 3009.35**
(Rupees Three Thousand
Nine(Paise ThirtyFive)
Only

(B) Labour cost for dismantling of old CC canal lining and carriage of the materials and depositing the same in a safe distance as directed complete.
: Carriage up to lead of 30 M and lift upto 1.50 M

SqM **Rs. 362.16**
(Rupees Three Hundred
SixtyTwo(Paise Sixteen)
Only

24.28 (C) Labour charge for dismantling of old CC works of canal structures and carriage the spoils and depositing the same in a safe distance as directed.
: Carriage up to lead of 60 M and lift upto 9 M.

CuM **Rs. 4683.86**
(Rupees Four Thousand
Six Hundred
EightyThree(Paise
EightySix) Only

24.29 (D) Labour cost for dismantling of old CC canal lining and carriage of the materials and depositing the same in a safe distance as directed complete
: Carriage up to lead of 60 M and lift upto 9 M.

SqM **Rs. 697.06**
(Rupees Six Hundred
NinetySeven(Paise Six)
Only

24.27 22.6 Labour for dismantling of old CC work and stacking the spoils at suitable place including local carriage, complete as directed.

CuM **Rs 5451.65**
(Rupees Five Thousand
Four Hundred
FiftyOne(Paise SixtyFive)
Only

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23. MISCELLANEOUS

Sl No	Name of Item	Unit	Rate
23.1	Making and maintaining sub-way 3 M wide including providing barrier and sign board and lamp etc.	<i>RM</i>	Rs. 804.78 (Rupees Eight Hundred Four(Paise SeventyEight) Only
23.2	Providing weep holes with 50 mm dia GI pipes of required length and depth fitted with vertical non return valve (50 mm) of brass inside including cost of making filter of size 0.6 M x 0.6 M x 0.6 M fitted with graded filter media at back side and covering the back side with MS wire netting in the abutment, face wall wall of Head Work including shuttering for providing space at the time of casting cement concrete including supplying fitting bend, nipple, etc, complete as directed.	<i>No.</i>	Rs. 7545.65 (Rupees Seven Thousand Five Hundred FortyFive(Paise SixtyFive) Only
23.3	Providing 75 mm dia. Weep Holes including supplying and fixing 75 mm dia PVC pipe in weep holes, complete as directed.	<i>No.</i>	Rs. 363.40 (Rupees Three Hundred SixtyThree(Paise Fourty) Only
23.4	Preparing / making level the ground surface for layout of Headwork / structures for fixing the required axis line by cutting the high land and filling and levelling the low land where necessary etc, complete as directed.	<i>SqM</i>	Rs. 129.32 (Rupees One Hundred TwentyNine(Paise ThirtyTwo) Only
23.5	Labour charge for spreading of hard river gravel or broken stone of size 13 mm to 38 mm to the required thickness including dressing and ramming the seat before laying the materials as directed with a lead upto 30 M and lift upto 1.5 M, complete as directed.	<i>CuM</i>	Rs. 592.78 (Rupees Five Hundred NinetyTwo(Paise SeventyEight) Only
23.6	Construction of temporary shed with 0.30 M high earth plinth and floor with bhaluka bamboo post of size 100 mm to 120 mm dia driven at least 0.75 M below GL and 2.75 M above plinth split jati bamboo walling tied with 3 lines of half bamboo (jati) kamies with 0.63 mm thick GCI sheet roofing over jati bamboo framing with whole bamboo struts fitted with post plate of bamboo purlins tied with galvanized wire, coir string including providing single dharamat jhap doors and windows, complete as directed.	<i>SqM</i>	Rs. 3489.36 (Rupees Three Thousand Four Hundred EightyNine(Paise ThirtySix) Only

23.7	Supplying of quick setting concrete admixture of specified brand including loading and unloading, carriage to the work site, complete as directed.	Litre	Rs. 292.80 (Rupees Two Hundred NinetyTwo(Paise Eighty) Only
23.8	Neat cement finishing 3 mm thick with cement slurry prepared by mixing 27.50 Kg of fresh cement in appropriate quantity of clean water to cover 10 (ten) SqM of work area and to give a smooth and hard finishing including rounding corners, brooming, curing etc, complete as directed.	SqM	Rs. 244.02 (Rupees Two Hundred FortyFour(Paise Two) Only
23.9	Supplying 1 1/2" dia GI pipe for hand railing including fitting & fixing the same in position etc, complete as directed.	RM	Rs. 978.67 (Rupees Nine Hundred SeventyEight(Paise SixtySeven) Only
23.10	Providing rubber seal in the construction joints as per required size and shape and as per design and drawing, 16 mm minimum thickness including supplying, fitting and fixing complete as directed.	RM	Rs. 5942.37 (Rupees Five Thousand Nine Hundred FortyTwo(Paise ThirtySeven) Only
23.11	Supplying and mixing rapidite in concrete works below ground water level where necessary etc. complete as directed.	Litre	Rs. 236.01 (Rupees Two Hundred ThirtySix(Paise One) Only
23.12	Supplying, fitting and fixing elastomeric bearing on the top of the pier caps and abutments and under side of girder with epoxy resin, mortar etc. as directed complete.	No.	Rs. 21409.92 (Rupees TwentyOne Thousand Four Hundred Nine(Paise NinetyTwo) Only
23.13	Supplying, fitting and fixing ISMB 450 (2 x 1350.70 cm) including carrying to worksite by crane / truck and making plain grooving in RCC works as per design and drawing as directed by the department complete.	RM	Rs. 7629.06 (Rupees Seven Thousand Six Hundred TwentyNine(Paise Six) Only
23.14	Labour charges for spreading hard river shingles / sand gravels to required thickness over approach subway etc. including ramming, dressing the seat before laying the materials lead upto 30 M and lift 1.50 M, complete as directed.	CuM	Rs. 452.70 (Rupees Four Hundred FiftyTwo(Paise Seventy) Only

23.15 Providing bitumen of appropriate grade in the construction joint of CC lining as per drawing complete as directed. *RM* **Rs. 170.01**
24.26 (Rupees One Hundred Seventy(Paise One) Only

23.16 Supplying and laying of filter materials consisting of sand and river shingles free from dust dirt and other foreign materials and laying in three layers in position as per drawing and specification as directed by the department. *CuM* **Rs. 2161.71**
24.16 (Rupees Two Thousand One Hundred SixtyOne(Paise SeventyOne) Only

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