



**GOVERNMENT OF KERALA**

**Abstract**

Local Self Government Department - MGNREGS - Revised Guidelines for the implementation in Forest Areas through Convergence - Approved - Orders issued.

**LSG(DD)DEPARTMENT**

**G.O.(Ms)No. 218/2017/LSGD** Dated,Thiruvananthapuram, 07/11/2017

- Read: 1 GO (Ms) No. 126/2007/LSGD Dated 7.5.2007  
2 GO (Ms) No. 214/2008/LSGD Dated 28.7.2008  
3 Letter No.1926/EGS C/2014/REGS dated 23.01.2017

**ORDER**

Mahatma Gandhi National Rural Employment Guarantee Act is implemented in the entire State from 2008 onwards. Since the State is endowed with vast areas of degraded forests, it is desirable to carry out forest development as well as eco-restoration activities under the provisions of the Act.

2. In order to streamline the implementation of the National Rural Employment Guarantee Scheme (NREGS) in forest areas, guidelines were issued as per the Government Order read as first paper above. The existing guidelines demands revision as the Schedule I and II of the Act were amended by Government of India which enhanced the scope of permissible works under the scheme. As per the letter read above, the Mission Director(MGNREGS) submitted draft revised guidelines prepared with concerted effort of MGNREGS State Mission and Forest and Wild Life Department by including the newly permissible works that can be taken up under Mahatma Gandhi NREGA in forest areas.

3. Government have examined the matter in detail and are pleased to issue the revised guidelines for streamlining the implementation of Mahatma Gandhi NREGA in forest areas as appended to this order. The wage rate of MGNREGA shall be Rs 258/- per day for 2017-2018 and the wages approved by Central Government in this regard shall be made applicable as and when revised in future.

By order of the Governor  
**MINIMOL ABRAHAM**  
**ADDITIONAL SECRETARY**

- To:- 1.The Mission Director(MGNREGS)  
2.Principal Chief Conservation of Forests  
3.Principal Accountant General(Audit/A&E), Kerala, Thiruvananthapuram.  
4.F&WL(D)Department(D1/2013/2017/F&WD)

5.Director(Information Kerala Mission)

6.Sock File/Office Copy

Forwarded/By order

Section officer

**Guideline for implementing Mahatma Gandhi NREGA in convergence with  
Department of Forest and Wild Life**

1. All out efforts should be taken by the District Panchayat, Block Panchayat, Grama Panchayat, DPC, Forest officials; JPC, BPO and GP Secretary that the entire forest dwellers who are interested to participate in Mahatma Gandhi NREGA works are given all out support to register with the Grama Panchayats and obtain a job card.
2. Only works in harmony with the approved Working Plan/Management Plan shall be taken up in the forest areas.
3. The Amended Schedule I & II of the Mahatma Gandhi NREGA stipulate four categories of work. The works that can be taken up in each category is as follows: -

Category A:- Public Works Relating to Natural Resources Management

i) Water Conservation

- a. Earthen Dams
- b. Check Dams
- c. Rain Water Pits
- d. Percolation Tanks
- e. Spring shed Development

ii) Watershed Management

- a. Contour Bunds
- b. Contour Trenches
- c. Boulder Checks
- d. Contour Stone wall
- e. Terracing

iii) Irrigation

- a. Renovation of drains
- b. Formation of new drains

iv) Traditional Water Bodies

- a. De-siltation of existing ponds

- b. Renovation of existing ponds
- c. Construction of new ponds

v) Afforestation

- a. Planting trees in forest areas
- b. Avenue Plantations
- c. Nursery raising

vi) Land Development

Category D: - Rural Infrastructure

i) Rural sanitation

- a. Individual Household Latrines (IHHL)
- b. Compost Pits
- c. School Toilets
- d. Anganwadi Toilets

ii) Road connectivity

- a. Up gradation of forest roads to tribal hamlets including chappath, culverts and causeway

iii) Play Grounds

- a. Anganwadi Centres (AWC)
- b. Buildings for SHGs of VSS

iv) Production of building material required for construction works under the Act as a part of the estimate of such construction works.

4. The Vana Samrakshana Samithies (VSS5) and Eco- development Committees (EDCs) will prepare the project/micro plan (List of works). The project/micro plans so prepared will be consolidated and sent to the Grama Panchayat through the Range Forest Officer concerned.
5. The Grama Panchayat will then place it before the Grama Sabha and after its clearance, will approve it as part of the Shelf of Project for Mahatma Gandhi NREGS.
6. Estimates of all forestry works in the micro plan under Mahatma Gandhi NREGS

will be prepared by the Range Forest Officer and sent to Grama Panchayat for issuing Administrative Sanction. For preparation of estimate on civil works in forest areas under the MNREGS, technical expertise of engineering wing under the auspices of the concerned Grama Panchayat shall be utilized.

7. Formalized FSR data applicable to Mahatma Gandhi NREGS Man/Woman Workers for Forestry works, NREGS Standardized data for Civil Works in forest areas and model estimates for civil works are appended as Annexure I and II(a) and II(b) to this order. (The model estimates are prepared in the pre-revised wage rate of Rs.240) The officers in various districts can prepare civil work estimates by using the appropriate item code applicable for the district in column 2 of the model estimate in the software provided for this purpose. Mahatma Gandhi NREGA standardized data include the data exclusively developed for MGNREGA, suitable data in the CPWD, Observed data of Kerala PWD, Irrigation etc. In case, the data for an activity is not found, the Panchayat can develop an Observed Data as per GO (Rt) No. 1640/16/LSGD Dated 10.5.2016.
8. The estimates with all details shall get sanctions through the SECURE Soft.
9. The Forest Schedule of Rates (FSR) will be applied for preparation of estimates of forestry works and Mahatma Gandhi NREGA standardized data with Local Market Rates (LMR) will be used for civil works in forest areas. The FSR will be the additional activity master for forestry works in the SECURE Soft.
10. The forest areas are classified as ordinary and difficult areas for the purpose of forestry works. This classification will be applicable to forestry works of Mahatma Gandhi NREGS also.
11. The prevailing wage rate for an unskilled Mazdoor under FSR is Rs.290 plus VDA in ordinary area and Rs.330 plus VDA in difficult area.
12. The payment of wages will be limited to Rs.258 per day which is the unskilled wage rate notified for the State for 2017-18. The unskilled wage rate notified by Government of India annually will be applicable as unskilled wage rate for each year.
13. The Grama Panchayat will accord Administrative Sanction for individual works

The Panchayat and Forest Department shall ensure that Administrative Sanction and Technical Sanctions are accorded to as many works as possible to meet the full estimated demand for works.

19. The tools and implements required for the work can be brought by the workers themselves for which they are eligible for sharpening charges which will be met from the material component of Mahatma Gandhi NREGA. In case, the workers are not bringing the tools and implements, the same can be provided through the VSS/EDC. In such cases, the tools and implements shall be purchased by the Panchayat concerned, based on the requirement furnished by the Forest Department and scrutinized by the Panchayat Level Technical Committee for Forestry Works. The expenditure for the one time purchase of tools and implements may be met from the funds for General Purpose Grant, Development Funds or own funds. The tools and implements so purchased shall be handed over to the VSS/EDC. VSS/EDC would rent out the tools to the workers. The VSS/EDC may charge rent (Sharpening charges) at local rates which may be approved by the Grama Panchayat. The rent (Sharpening charges) so collected will be separately accounted for. The expenses for repairs and replacement of tools and implements would be met from the rent (Sharpening Charges) so collected.
20. The Beat Forest Officer, Section Forest Officer, Deputy Range Forest Officer and Range Forest Officer will be responsible for the immediate supervision of the forestry works. Implementation of individual projects will be supervised and monitored by VSS/EDC also.
21. Vigilance Wing of the Forest Department will inspect the works to ensure that the works are in conformity with Forest Conservation Act; Working Plans etc.
22. Measurements will be recorded by the Forest Department subordinate Officers in the measurement Book. The M- Book will be handed over to the Village Panchayat for settlement of bills and safe custody. The Beat Forest Officer of the area will record the measurements in the M Book. The Section Forest Officer/Deputy Range Forest Officer shall authenticate quality and measurements and the Range Forest Officer will check measure the work. All M Books handed over to the Panchayat will be entered in the Electronic M Book (EMB) in the MIS by the data Entry Operator of the Grama Panchayat.

23. Muster Roll for forestry works under MNREGS will be issued by the Grama Panchayat Secretary. The Muster Roll for the work will be maintained by the Beat Forest Officer and certified by the VSSI EDC Chairperson.
24. Materials for the works will be purchased by the Grama Panchayat following the existing provisions in the GO referred as second paper above.
25. The details of estimates of forestry works and civil works in forest areas taken up under the scheme should be exhibited prominently at the Forest Range Office and Village Panchayat.
26. The VSS/EDC shall nominate a volunteer who would be responsible for onsite safe custody of the muster roll, ensuring labour out-turn, arrangement of work site facilities, distribution and collection of implements, checking proper stocking and utilization of materials and verifying payments in case there are more than 50 workers in a work site. The volunteer will also liaise with the Village Panchayat and Forest Department and sort out any operational problem. The Volunteer may be paid semi skilled wages per day for the day in which he/she actually organizes and supervises the work which should not in any case exceed the actual number of days taken for completion of work. The semi skilled wage eligible will be notified later. As far as possible preference would be given to widows, abandoned women and handicapped women in the selection of Volunteers by the VSS/EDC, for every new work a new volunteer may be deployed by the VSS/EDC.
27. In case the number of workers is less than 50, one worker whom the VSS/EDC nominates will undertake the work of the Mate. Such worker who executes the services of a Mate will not be eligible for the semi skilled wages.
28. The VSS/EDC shall have the following functions also:
  - i. Facilitating distribution of Job Cards and opening Savings Bank Accounts of workers;
  - ii. Ensuring that maximum women participate in the work;
  - iii. Ensuring that maximum Scheduled Tribes participate in the work;
  - iv. Ensuring local awareness about the work; and
  - v. Serving work related notices such as work commencement notices.
29. Work site facilities to be arranged include:
  1. Drinking Water facilities with pots and glasses;

2. First Aid boxes; and

3. Facilities for children below five years- if the number of children is five or more exclusive Ayah would be nominated by the VSS/EDC.

Otherwise, the VSS/EDC volunteer in charge of the work will perform this task also.

30. The First Aid boxes shall be supplied by Panchayat to the concerned VSS/EDC. The VSS/EDC shall properly take them into stock and issue to the work site. On completion of the work, these should be taken back and reissued to the next work site as required.
31. In the case of injuries suffered by any worker as part of his/her work he/she shall be given first aid and if required, treatment at the hospital may be arranged. If hospitalization is required the cost of medicines shall be met from the non-wage component of the scheme. Also 50% of the wage rate shall be provided during the period of hospitalization as per the provisions of Clause 25, Schedule-II of NREGA.
32. Since payments have to be made every fortnight, the Panchayat concerned and Forest Department Officers shall ensure proper valuation/measurement of work well in time. Otherwise, the provisions in Para 29 of the Schedule I of the Act will attract.
33. Since there is no contractor involved there is no need for an agreement and for this reason there is no need to provide any taxes or contributions.
34. Once a forestry work or civil work is started in the forest area, the District Programme Co-ordinator and Mahatma Gandhi NREGA State Mission Director shall ensure uninterrupted flow of funds till the completion of the work, as incomplete work may harm the eco-system.
35. Joint efforts will be taken to ensure availability of job card holders for seasonal works. The Grama Panchayats will take this factor into account while preparing labour budget for Mahatma Gandhi NREGS.
36. Season specific Forestry works should be completed within a particular season. As the implementation of these works cannot be postponed, the VSS/EDC shall be



given the freedom to employ local labourers if job card holders fail to turn up for the work. In such cases the expenditure for the portion of works so executed will be met from Forest Department funds.

37. Grama Panchayat will give at least three days advance information to the VSS/EDC about the workers who are nominated for a work in the area falling under VSS/EDC.
38. The District Programme Co-ordinator, Joint Programme Co-ordinator, Block Programme Officer and Grama Panchayat concerned also can inspect Mahatma Gandhi NREGS works taken up in forest areas.
39. Forest offenders will not be engaged for jobs in forest area even if they are job card holders. Details of labor engaged under MNREGS along with physical and financial data shall be provided to the Range Forest Offices where it will be maintained for future reference.

Ordinary Area = 290 (Rate)+140(VDA) =430

Factor for Ordinary Area =430/240= 1.7917

Difficut Area = 334 (Rate)+140(VDA) = 474

Factor for Difficut Area = 474/240= 1.973

NREGS Wage =Rs.240/-

# ANNEXURE I

Sl.No.	FSR Number	Item of Work	Unit	FSR Labour Data	Ordinary Area (NREG MM)	Difficult Area (NREG MM)
1	2	3	4	5	6	7
	(a)	Formation of nursery bed for teak excluding collection of bamboos	Square metre	0.1958 USW	0.3508	0.3863
			Bed (14.4 sq.m.)			
	(b)	Sowing Teak Seeds in Nursery beds	Square metre	0.0333 USW	0.0597	0.0657
			Bed (14.4 sq.m.)	0.4795	0.8596	0.9461
			Bed (12 Sq.m.)	0.3996	0.7164	0.7884
	(c)	Aligning and staking (2m x 2m)	One Hectare	2.496 USW 4.938 USW	4.4721 8.8474	4.9246 9.7427
	(d)	Pulling out Teak seedlings (one year old) and preparation of stumps	100 Stumps	0.2041 USW	0.3657	0.4027
	(e)	Pulling out Teak seedlings (two year old) and preparation of stumps	100 Stumps.	0.2645 USW	0.4739	0.5219
	(f)	Planting of Teak	100 Stumps.	0.2437 USW	0.4366	0.4808
	(g)	Preparation of seed bed Nursery of Eucalyptus	Square metre	0.0854 USW	0.1530	0.1685
			Per Bed (14.459 M)	1.2298	2.2032	2.4264
			Per Bed (12 Sq.m.)	1.0248	1.836	2.022

Sl.No.	FSR Number	Item of Work	Unit	FSR Labour Data	Ordinary Area (NREG MM)	Difficult Area (NREG MM)
1	2	3	4	5	6	7
	(h)	Watering Eucalyptus Nursery at the rate of 30 litre per square (Reduced to 2/3)	Square metre	0.194 USW	0.3476	0.3828
		(Reduced to 2/3)	Bed (14.4 Sq.m.)	2.7936	5.0054	5.5123
		(Reduced to 2/3)	Per Bed (12 Sq.m.)	2.382	4.1712	4.5936
	(i)	Collection and Sieving of Forest Soil for filling polythene bags	Per cubic metre of soil	1.6395 USW	2.9375	3.2347
			Per 100 polythene bags	0.1 USW	0.1792	0.1973
	(j)	Filling polythene bags 12x18 cms x 100 guage thickness and watering to facilitate planting	100 polythene bags	0.3526 USW	0.6318	0.6957
	(K)	Pulling out Eucalyptus seedlings from nursery bed and transplanting into polythene bags	100 seedlings	0.1062 USW	0.1903	0.2095
	(l)	Digging, Planting pits in ordinary forest soil after rains - pits of size 25 x 25 x 25 cm. at a spacing of 2.5 m x 2.5 m	100 Pits.	0.5312 USW	0.9518	1.0481
	(m)	Digging pits of dimension 30 x 30 x 30 cms after rains	100 Pits.	0.9229 USW	1.6536	1.8209
	(n)	Digging pits of dimension 25 x 25 x 25 cms during dry weather	100 Pits.	1.1104 USW	1.9895	2.1908
	(o)	Digging pits of dimension 30 x 30 x 30 cms during dry weather	100 Pits.	1.8182 USW	3.2577	3.5873
	(p)	Digging pits in boundery soil of dimension 25 x 25 x 25 cms after rains	100 Pits.	0.66 USW	1.1825	1.3022
	(q)	Digging pits in bouldery soil of dimension 30 x 30 x 30 cms after rains	100 pits	1.3015 USW	2.3319	2.5679
		Digging pits in bouldery soil of dimension 25 x 25 x 25 cms during dry weather	100 pits	1.338 USW	2.3973	2.6399

Sl.No.	FSR Number	Item of Work	Unit	FSR Labour Data	Ordinary Area (NREG MM)	Difficult Area (NREG MM)
1	2	3	4	5	6	7
	(s)	Digging pits in bouldery soil of dimension 30 x 30 x 30 cms during dry weather	100 pits	2.5641 USW	4.5941	5.0590
	(t)	Transport of seedlings in polythene bags to planting sites and distribution upto a lead of 50 metres (20% for each additional 50 mtrs)	100 seedlings	0.1166 USW	0.2089	0.2301
	(u)	Covering planting pits of dimension 25 x 25 x 25 cms and digging planting holes	100 pits.	0.41040 USW	0.7353	0.8097
	(v)	Planting bagged seedlings for both the works under (u) and (v) above	100 pits.	0.2350 USW	0.4210	0.4637
	(w)	Aligning and staking 2.5 x2.5m	1 Ha.	2.0000 USW 4.0000 USW	3.5834 7.1668	3.9460 7.8920
	1	Clearing boundary line to a width of 1.6 m to facilitate survey	Km	3.1050 MM	5.5632	6.1262
	12	Constructing cairns 60 cm x 60 cm at bottom, 30 cm x 30 cm high including collection of stone	Cairns	1 USW	1.7917	1.9730
	48	Clearing boundary line to a width of 5.2 metres	Km	20 MM	35.8340	39.4600
		Fire tracing	Km	20 MM	35.8340	39.4600
	63	Erecting temporary shed with jungle wood posts, bamboos, reeds etc., clearing and levelling site, scraping and thatching with grass etc.	10 Sq. m.	10.763	19.2841	21.2354
	92	First year first weeding (in May-June) mammaty weeding entire area	Ha.	29.625	53.0791	58.4501
	93	First year second weeding (August-September) clear knife weeding including uprooting Lantana, bamboo etc.	Ha.	14.826	26.5637	29.2517
	94	First year third weeding (December-January) as above and scraping 30 cm around all plants above 60 cm and soil working around plants 60 cm and mutching for all plants	Ha.	9.884	17.7092	19.5011

Sl.No.	FSR Number	Item of Work	Unit	FSR Labour Data	Ordinary Area (NREG MM)	Difficult Area (NREG MM)
1	2	3	4	5	6	7
	94(a)	Cutting back double leaders and pruning in the first and second year	Ha.	4.942	8.8546	9.7506
	94(b)	Additional weeding when found necessary	Ha.	4.942	8.8546	9.7506
	96	2 <sup>nd</sup> year First weeding in May-June clear knife weeding and uprooting bamboo lantana etc.	Ha.	9.987	17.8937	19.7044
	97	2 <sup>nd</sup> year Second weeding (August-September) as above	Ha.	7.413	13.2819	14.6258
	98	2 <sup>nd</sup> year Third weeding (December-January) knife weeding in line 60 cm on either side of the plant	Ha.	4.942	8.8546	9.7506
	98(a)	Additional weeding when found necessary	Ha.	3.706 USW	6.6400	7.3119
	99	2 <sup>nd</sup> year First weeding in (May-June) clear knife weeding with uprootal of lantana, bamboo etc.	Ha.	9.884	17.7092	19.5011
	100	3 <sup>rd</sup> year Second weeding (November-December) line weeding 60 cm on either side	Ha.	3.706 USW	6.6400	7.3119
	100(a)	Knife weeding eupatorium area after third year	Ha.			
	1	Heavy weed growth	Ha.	24.71	44.2729	48.7528
	2	Moderate growth	Ha.	18.532	33.2038	36.5636
	3	Light growth	Ha.	12.355	22.1365	24.3764
	100(b)	Additional weeding when found necessary	Ha.	2.471 USW	4.4273	4.8753
	100 (1)	Special tending of plantation of over three years with heavy bamboo growth	Ha.	14.826 USW	26.5637	29.2517

Sl.No.	FSR Number	Item of Work	Unit	FSR Labour Data	Ordinary Area (NREG MM)	Difficult Area (NREG MM)
1	2	3	4	5	6	7
	111(e)	Skinning entire surface in ordinary grass area	Ha.	37.065	66.4094	73.1292
	114	Clearing heavy jungle growth without felling trees	Ha.	19.768	35.4183	39.0023
	115	Clearing light jungle without felling trees	Ha.	9.884	17.7092	19.5011
	116	Forming inspection paths 2.4 m wide in regeneration area	Km	7.762 USW	13.9072	15.3144
	117	Soil working 90 cm diameter around the plants ..	1000 nos.	10	17.9170	19.7300
	154 (a)	Climber cutting in plantations with ordinary growth of climber	Ha.	1.235	2.2127	2.4367
	154 (b)	Climber cutting in plantations with heavy growth of climber :	Ha.	3.706	6.6400	7.3119
	159 (a)	Clear knife weeding in heavy grass area (Eucalyptus plantation)	Ha.	17.297 USW	30.9910	34.1270
	159 (b)	Clear knife weeding in medium grass area (Eucalyptus plantation)	Ha.	12.335 USW	22.1006	24.3370

### Compost making

163 (i)	Collection & transportation of green leaves	678.8kg	7.5MM
Local Rate	Loading & unloading charges of green leaves to nursery by Dept.Lorry(if loading & unloading are done by union labours)		
Work study	Chopping of green material & carrying to compost shed	Per tonne	2.26MM
Work study	Labour cost for turning compost heaps 20 times	Per tonne for 20 times	9MM
Work study	Labour cost for drying & sieving compost	Per tonne	2.76 MM
LS	Cost of urea		

10.3125	18.8125
3.1075	4.4635
12.375	17.775
3.795	5.451

Sl.No.	FSR Number	Item of Work	Unit	FSR Labour Data	Ordinary Area (NREG MM)	Difficult Area (NREG MM)
1	2	3	4	5	6	7
	100(2)	Special tending of plantation of over three years with miscellaneous growth	Ha.	9.884 USW	17.7092	19.5011
	100(c)	Knife weeding - 3 weedings to be done during the month of July-December	Ha.	7.413 USW	13.2819	14.6258
	100 (d)	Third year mammtty weeding to the eucalyptus plantations	Ha.	34.594 USW	61.9821	68.2540
	101	First mechanical thinning in 2mx 2m Teak plantations including preliminary clearing	Ha.	9.884	17.7092	19.5011
	107 (a)	Slash felling Predominantly bamboo area	Ha.	49.42	88.5458	97.5057
	107 (b)	Slash felling Ordinary area	Ha.	24.71	44.2729	48.7528
	108	Clearing safety lines 3.6m wide including scraping two guide lines of 1.2 m wide on either side keeping the whole stack in middle and burning	Ha.	13.97	25.0300	27.5628
	109	First burning	Ha.	1.235	2.2127	2.4367
	110(a)	Heaping and burning where elephant power is used in burning etc	Ha.	14.826	26.5637	29.2517
	110(b)	Heaping and burning where elephant power is used in burning etc is not available	Ha.	29.625	53.0791	58.4501
	111(a)	Scraping 30 cm radius around the plants	Ha.	3	5.3751	5.9190
	111(b)	Skining grass to radius of 90 cm in ordinary grass area	Ha.	15	26.8755	29.5950
	111(c)	Skining grass to radius of 90 cm in heavy grass area	Ha.	22.5	40.3133	44.3925
	111 (d)	Skining entire surface in heavy grass area	Ha.	59.304	106.2550	117.0068

SI.No.	FSR Number	Item of Work	Unit	FSR Labour Data	Ordinary Area (NREG MM)	Difficult Area (NREG MM)
1	2	3	4	5	6	7
	LS	Cost of sieve, spares of chopping machine & engine repairing charges, fuel/electricity charge, tools etc.				

Table 1



Forest estimates using MGNREGA standardised datas

ANNEXURE II (b)

NAME OF WORK - CONSTRUCTION OF CONCRETE CHECK DAM AT VALAYAMKULAM ; ADIMALI RANGE

Estimate 1

USING MGNREGA STANDARDISED DATA AND LMR OF PALAKKAD

SL.NO.	ITEM CODE	DESCRIPTION OF ITEM	NO	L	B	H	QTY	RATE	UNIT	AMOUNT
1	80.2	Earthwork excavation in all kinds of soil for foundation								
		port hole	1	2.7	4.8	0.5	6.48			
		centre valley	1	6	5.2	0.35	10.92			
		side	1	1.5	5	0.5	3.75			
		side	1	2	5	0.8	8			
		total					29.15	1996.8	10m3	5820.672
2	60.5.1.	Providing dowel bar using 20mm bar 40 cm distance including cost of material labour charges	45						E	387.99
3	2.33.1	Woodcutter engaged for cutting trees upto 50 cm above	3					120	E	360
4	4.1.6	CC 1:3:6 using graded metal 40mm % 20mm								
		port hole	1	2.7	4.8	0.5	6.48			
		levelling bed	1	6	5.2	0.6	18.72			
		total					25.2	6973.38	1m3	175729.176
5	5.2.3	RCC 1:2:4 using 20mm broken stone								
		Superstructure	1	6	(2.5+1)/2	1.8	18.9			
		side	1 [1		(2.5+1+1)/: 1.8/2]/2		1.01			
		side	1 [2		(2.5+1+1)/: 1.8/2]/2		2.02			

		wings us/rt	1	2	0.8	0.8	1.28		
		us/lt	1	3	0.7	0.8	1.68		
		DS/rt	1	2	0.7	0.8	1.12		
		Ds/lt	1	2.1	0.6	1	1.26		
		total					27.27	8841.07 1m3	241095.9789
6	5.22.6	Reinforcement for RCC works							
		12mm main	15	3.7			55.5		
			8	3.1			24.8		
			7	3.25			22.75		
		back	15	4.3			64.5		
			8	3.6			28.8		
			6	4.05			24.3		
		total					220.65 m		
		220.65 @ 0.888kg/m					195.93	kg	
		10 mm distributory	22	8.9			195.8		
			19	8.7			165.3		
			21	8.5			178.5		
							539.6 m		
		539.60 @ 0.617 kg/m					332.93	kg	
		total - 195.93 + 332.93					528.86	75.2 kg	39770.272
7	13.9.1	Plastering with cement mortar 1:3							
		face	1	6	1.8		10.8		
			1	1 1.8/2			0.9		
			1	2 1.8/2			1.8		
		top	1	9	1		9		
		back	1	6	2.4		14.4		
			1	1 2.4/2			1.2		
			1	2 2.4/2			2.4		
			1	3	2.3		6.9		
			1	2	2.3		4.6		
			1	2	2.3		4.6		
			1	2.1	2.6		5.46		

total 62.06 3176.02 10m2 19710.38

8 extra item Putting up ring bund 1.5+1.00x 1.00  
using cut earth filled cement bag

8 m

9 60.2.2 Bailing out water using 5 Hp engine and  
pump set

108 167.91 hr 18134.28

**TOTAL**

**501008.7489**

**Rupees five lakhs one thousand and nine only**

**Estimate for the cost of concreting road to Karipalam- Valiyakilicode settlement in Aryanadu - Palode section**

**Estimate 2**

**USING MGNREGA STANDARDISED DATA AND LMR OF PALAKKAD**


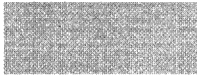
Sl.no	Code	Description of item	no.	L	B	D	Qty	Rate	Unit	Am,ount
1	2.1.1	Earthwork in surface excavation not exceeding 30cm in depth but exceeding 1.5m width complete	1	110	3		330	3199.68	100m2	10558.944
2	4.1.8	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering CC 1:4:8	1	110	3	0.1	33	6518.88	1m3	215123.04
3	11.7	Cement concrete pavement with 1:2:4 including finishing	1	110	3	0.05	16.5	8452.86	1 m3	139472.19
<b>Total</b>										<b>365154.2</b>

**Say Rupees three lakhs sixty five thousand one hundred and fifty four only**

**Estimate for the cost of maintenance of road from Pachilathodu to Camp shed in Kaliyar section**

**Estimate 3**

**USING MGNREGA STANDARDISED DATA AND LMR OF PALAKKAD**

1		Cost of levelling and re-rolling with power roller in the surface of existing metalled road	1	135	3			1 m2	
2	4.1.8	Cement concrete 1:4:8 using 40 mm broken stone	1	50	3	0.1	15	6518.88 1 m3	97783.2
3	16.42	Cement concrete 1:2:4 using 20 mm broken stone	1	185	3	0.1	55.5	7865.5 1 m3	436535.25
4		Providing machine pressed bitumen pad for expansion joint	1	37	3	0.1	11.1		

**Estimate for the cost of patrolling rout/ trek path in Athirumala section**

**Estimate 4**

**USING MGNREGA STANDARDISED DATA AND LMR OF PALAKKAD**

1	2.32	Clearing light jungle	1	3000	2		6000	209.72 100 m2	12583.2
2	2.1.1	Sectioning upto 150 mm and forming surface trek path	1	1200	2		2400	3199.68 100 m2	76792.32
<b>Total</b>									89375.52

**Rupees eighty nine thousand three hundred and seventy five only**

**Estimate for the cost of improvement of Thengin thoppu- Pandimotta road in Shendurney wildlife**

**Estimate 5**

**USING MGNREGA STANDARDISED DATA AND LMR OF PALAKKAD**

1	80.3	Earthwork excavation in all kinds of soil						
		At koovachal	1	30	2.5	2	15	
		at oottukuzhi	1	35	2.5	0.2	17.5	
		near karachal	1	80	2.5	0.2	40	
		Total					72.5	93.6 1 m3 6786
2	80.2	Earthwork excavation for foundation in all kinds of soil						
		Retaining wall	1	16	0.75	0.6	7.2	
		Total					7.2	199.68 1 m3 1437.696
3	4.1.8	Cement concrete 1:4:8 using 40 mm aggregate						
			1	30	2.5	0.12	9	
			1	35	2.5	0.12	10.5	
			1	80	2.5	0.12	24	
		Retaining wall foundation	1	16	0.75	0.2	2.4	
		Total					45.9	6518.88 1 m3 299216.592
4	4.1.3	Cement concrete 1:2:4 using 20 mm aggregate						
			1	30	2.5	0.08	6	
			1	35	2.5	0.08	7	
			1	80	2.5	0.08	16	
		Total					29	7993.95 1 m3 231824.55
5	4.1.6	Cement concrete 1:3:6 using 40 mm & 20 mm stone aggregate						
		Retaining wall	1	17	0.5	1	8.5	

		1	17	0.3	1	5.1		
Total					13.6	6973.38 1 m3		94837.968

Reinforcement for RCC work , quantity same as  
above

6 5.22.6

13.6 m3 @ 40 kg/ m3

13.6		
544	75.2 kg	40908.8

Total

675011.7

**Rupees six lakhs seventy five thousand and eleven only**

# Estimate for maintenance of foot path to waterfall at Kumbavurutty Eco-tourism sites

## Estimate 6

### USING MGNREGA STANDARDISED DATA AND LMR OF PALAKKAD

1	modified 7.1.1	Rubble masonry with hard stone in foundation and plinth upto plinth level	1	3	0.6	1	1.8	1349.06 1 m3	2428.308
2	4.1.8	Cement concrete 1:4:8 foundation	1	9.5	1.2	0.3	3.42	6518.88 1 m3	22294.5696
3	4.1.3	Cement concrete 1:2:4 foot path	1	10	1	0.1	1		
			1	6.5	1	0.1	0.65		
			1	3	3	0.1	0.9		
		cross wall across water falls	1	9.5	0.8	0.8	6.08		
			1	4	0.8	0.4	1.28		
			1	1.1	0.8	0.4	0.35		
							10.26	7993.95 1 m3	82017.927
4	5.22.1	Steel reinforcement for RCC work - quantity as above	10.26	70 kg/ m3			718.2	75.2 kg	54008.64
5	4.3.1	Centering and shuttering for foundation cross walls across water falls	2	9.5		0.8	15.2		
			2	4		0.4	3.2		
			2	1.1		0.4	0.88		
		total					19.28	199.66 1 m2	3849.4448
6	13.4.1	12 mm cement plaster, 1:4 cement mix	2	9.5		0.8	15.2		
			2	4		0.4	3.2		
			2	1.1		0.4	0.88		
		top	1	14.6		0.8	11.68		
		total					30.96	253.1 1 m2	7835.976
		<b>Total</b>							<b>172434.8654</b>

**Rupees one lakh seventy two thousand four hundred and thirty five only**

**Estimate for construction of contour stone wall**

**Estimate 7**

**USING MGNREGA STANDARDISED DATA AND LMR OF PALAKKAD**

Sl.no	Code	Description of item	no.	L	B	D	Qty	Rate	Unit	Am,ount
1	2.32	Clearing light jungle		1			190	209.72	100 m2	398.468
2	80.3	Earthwork excavation in all kinds of soil		1			22.8	936	10 m3	2134.08
3	7.1.1	modified Dry masonry for retaining walls by collecting locally available materials		1			99.75	1349.06	1 m3	134568.735
										<b>137101.283</b>

**Rupees one lakh thirty seven thousand one hundred and one only**

**Estimate for the construction of 12 nos of boundary chairns at Elamchaim area**

**Estimate 8**

**USING MGNREGA STANDARDISED DATA AND LMR OF PALAKKAD**

Sl.no	Code	Description of item	no.	L	B	D	Qty	Rate	Unit	Amount
1	2.31	Clearing jungle		12	9		108	407	100 m2	439.56
2	80.2	Earthwork excavation for foundation in all kinds of soil		12	0.288		3.456	1996.8	10 m3	690.09
3	7.2.1	Random rubble masonry with hard stone in superstructure		12	1.08		12.96	6322.71	1 m3	81942.32
4	13.9.1	cement plaster 1:3		12	0.36		4.32	3176.02	10 m2	1372.04
5	13.33.1	pointing on stone work 1:3		12	3.6		43.2	1888.32	10 m2	8157.54
<b>total</b>										<b>92601.55</b>

**Rupees ninety twp thousand six hundred and one only**



**Estimate for the construction of permanent chairns around ERAMBaidu TRIBAL SETTLEMENT**

**Estimate 9**

**USING MGNREGA STANDARDISED DATA AND LMR OF PALAKKAD**

Sl.no	Code	Description of item	no.	L	B	D	Qty	Rate	Unit	Amount
1	2.31	Clearing jungle	90	2	2		360	407	100 m2	1465.2
2	2.2.1	Earthwork excavation	90	1.2	1.2	0.15	19.44	2603.96	10 m3	5062.098
3	7.1.1	random rubble masonry								
				1.2*1.2/2						
				+(0.6*0.6/						
		super structure	90	2)		1.2	97.2			
		foundation	90	1.2	1.2	0.15	19.44			
		total					116.64	5708.57	1 m3	665847.6
4	13.1.1	12 mm cement plaster in 1:4								
		top	90	0.65	0.65		38.025			
			90	4.8	0.1		43.2			
		total					81.225	2530.98	10 m2	20557.885
		total								<b>692932.783</b>

**Rupees six lakhs ninety two thousand nine hundred and thirty three only**

## COST OF RECONSTRUCTION OF DAMAGED CAIRNS IN THORAPPU

### Estimate 10

#### USING MGNREGA STANDARDISED DATA AND LMR OF PALAKKAD

1	7.1.1	Random rubble masonry in foundation and plinth including levelling with CC 1:6:12 - using wrecked rock hence avoid the cost & conveyance of rock.	16	16	4108 1 m3	65728
		<b>total</b>				<b>65728</b>

Rupees sixty five thousand seven hundred and twenty eight only

## ESTIMATE FOR THE COST OF STONE PITCHING IN ELEPHANT PROOF TRENCH AT ARANAPPARA IN THOLPETTY FOREST STATION

### Estimate 11

#### USING MGNREGA STANDARDISED DATA AND LMR OF PALAKKAD

Sl.no	Code	Description of item	no.	L	B	D	Qty	Rate	Unit	Amount
1	2.31	Clearing light jungle	1	50	3		150	407	100m2	610.5
2	80.2	Earthwork excavation for foundation in all kinds of soil	1	50	0.9	2	90			
		Levelling for foundation	1	50	0.9	0.45	20.25			
		Foundation					110.25	1996.8	10 m3	22014.72
		<b>total</b>								
3	7.1.1	random rubble masonry	1	50	0.9	0.45	20.25			
		Foundation					20.25	5708.57	1 m3	115598.54
		<b>Total</b>								
4	7.2.1	Random rubble masonry with hard stone in superstructure	1	50	0.65	2	65			
		<b>Total</b>					65	6322.71	1 m3	410976.15
5	5.1.2	Providing and laying in position								

1:1:5:3 (1 cement 1.5 coarse sand :3 graded stone aggregate 20 mm nominal size

Top of wall	1	50	0.5	0.05	1.25		
<b>Total</b>					<b>1.25</b>	<b>8820.78 1 m3</b>	<b>11025.98</b>

6	Sharpening charges	20			20	5 E	100
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<b>Total</b>							<b>560325.9</b>
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**Rupees five lakhs sixty thousand three hundred and twenty five only**

## Estimate 12

Sl. No:	Spec Code	Description	No	Length	Breadth	Depth	Quantity	Rate	Unit	Amount
1	2.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to surface dressing	1	50	3		150			
							150	4.07	sq.m	610.50
2	80.2	Earthwork in excavation by manual means over areas (exceeding 30cm in depth, 1.5m in width as well as levelling for foundation	1	50	0.9	2	90			
		foundation	1	50	0.9	0.45	20.25			
							110.25	199.68	cu.m	22014.72
3	7.1.1	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement foundation	1	50	0.9	0.45	20.25			
							20.25	5263.2	cu.m	106579.80
4	7.2.1	Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, super structure	1	50	0.65	2	65			
							65	5924.36	cu.m	385083.40
5	5.1.2	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of top of wall	1	50	0.5	0.05	1.25			
							1.25	7113.63	cu.m	8892.04
6		Lump-sum total - Sharpening charges								1750.00
								TOTAL		524930

## DETAILED ESTIMATE FOR ELEPHANT POND

### USING MGNREGA STANDARDISED DATA AND LMR OF THODUPUZHA

### Estimate 13

Sl. No:	Spec Code	Description	No	Length	Breadth	Depth	Quantity	Rate	Unit	Amount
1	2.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to jungle clearance	1	20	20		400 400	4.07	sq.m	1628.00
2	80.2	Earthwork in excavation by manual means over areas (exceeding 30cm in depth, 1.5m in width as well as waste removal	1	12	7	0.6	50.4			
			1	22	6	0.4	52.8			
			1	14	6	1	84			
		foundation for pond	1	36	3	0.25	27			
							214.2	199.68	cu.m	42771.46
3	4.1.8	Providing and laying in position cement concrete of specified grade excluding the cost of	1	36	3	0.2	21.6			
			1	6	6	0.1	3.6			
							25.2	4962.96	cu.m	125066.59
4	4.1.3	Providing and laying in position cement concrete of specified grade excluding the cost of	1	36	3	0.05	5.4			
			1	6	6	0.05	1.8			
							7.2	6235.94	cu.m	44898.77
5		Lump-sum total - Sharpening charges								1200.00
								TOTAL		215565

# ANNEXURE II(a)

## MGNREGA standardised data

2.1 Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5m in width as well as 10 sqm on plan including disposal of excavated earth up to 50 m and lift up to 1.5 m, disposed soil to be levelled and neatly dressed:

2.1.1 All Kinds of soil

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 100 sqm and average depth 15 cm				
	LABOUR:				
114	Beldar	Day	7.2	240	1728
115	Coolie	Day	6	240	1440
	TOTAL				3168
	Add Water Charges @ 1.0				31.68
	Cost of 100.0 sqm				3199.68
	Cost of 1 sqm				32
	Say				32.0/-
	Skilled				0
	Un Skilled				32
	Semi Skilled				0
	Materials				0
	Total				32.0/-

- 2.2 Earth work in rough excavation, banking excavated earth in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with 1/2 tonne roller or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up in embankments for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead up to 50 m and lift up to 1.5 m:

2.2.1 All kinds of soil

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 cum. LABOUR:				
114	Beldar	Day	5.9	240	1416
115	Coolie	Day	3.6	240	864
101	Bhisti	Day	0.4	600	240
113	Chowkidar - Roller Charges (one roller does 1850 sqm. of consolidation per day)	Day	0.008	240	1.92
3	Hire charges of Diesel Road Roller- 8 to 10 tonne	Day	0.008	5000	40
1235	Diesel oil	Litre	0.144	75	10.8
2342	Carriage of Solvent/ Diesel	quintal	0.0014	0	0
9999	Sundries	L.S	2.73	2	5.46
TOTAL					2578.18
Add Water Charges @ 1.0					25.78
Cost of 10.0 cum					2603.96
Cost of 1 cum					260.4
Say					260.4/-
Skilled					0
Un Skilled					230.77
Semi Skilled					24
Materials					1.63
Total					260.4/-

2.31

Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 100 sqm LABOUR:				
114	Beldar	Day	1.08	240	259.2
115	Coolie	Day	0.6	240	144
	TOTAL				403.2
	Add Water Charges @ 1.0				4.03
	Cost of 100.0 sqm				407.23
	Cost of 1 sqm				4.07
	Say				4.07/-
	Skilled				0
	Un Skilled				4.07
	Semi Skilled				0
	Materials				0
	Total				4.07/-

2.32 Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 100 sqm LABOUR:				
114	Beldar	Day	0.6	240	144
115	Coolie	Day	0.25	240	60
9999	Sundries	L.S	1.82	2	3.64
	TOTAL				207.64
	Add Water Charges @ 1.0				2.08
	Cost of 100.0 sqm				209.72
	Cost of 1 sqm				2.1
	Say				2.1/-
	Skilled				0
	Un Skilled				2.06
	Semi Skilled				0
	Materials				0.04
	Total				2.1/-



4.1 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:

4.1.3 1:2:4 (cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum MATERIAL:				
295	Stone Aggregate(single size):20 mm nominal size - nominal size	cum	0.67	2040	1366.8
297	Stone Aggregate(single size): 10 mm nominal size - nominal size	cum	0.22	2160	475.2
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.89	0	0
982	Coarse sand (zone III)	cum	0.445	4500	2002.5
2203	Carriage of Coarse sand	cum	0.445	0	0
367	Portland Cement - (0.2225 cum)	tonne	0.32	9000	2880
2209	Carriage of Cement	tonne	0.32	0	0
155	Mason (average)	Day	0.1	775	77.5
114	Beldar	Day	1.63	240	391.2
101	Bhisti	Day	0.7	600	420
2	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	Day	0.07	2300	161
12	Vibrator (Needle type 40 mm)	Day	0.07	1600	112
9999	Sundries	L.S	14.3	2	28.6
TOTAL					7914.8
Add Water Charges @ 1.0					79.15
Cost of 1.0 cum					7993.95
Say					7993.95/-
Skilled					0
Un Skilled					470.35
Semi Skilled					497.5
Materials					6753.1
Total					7993.95/-

4.1 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:

4.1.6 1:3:6 ( 1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum MATERIAL:				
293	Stone Aggregate(single size): 40 mm nominal size - nominal size (0.70 cum - 7.5 % for voids i.e. 0.05 = 0.65 cum)	cum	0.65	1740	1131
295	Stone Aggregate(single size):20 mm nominal size - nominal size	cum	0.24	2040	489.6
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	0.65	0	0
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.24	0	0
982	Coarse sand (zone III)	cum	0.47	4500	2115
2203	Carriage of Coarse sand	cum	0.47	0	0
367	Portland Cement	tonne	0.22	9000	1980
2209	Carriage of Cement	tonne	0.22	0	0
155	Mason (average)	Day	0.1	775	77.5
114	Beldar	Day	1.63	240	391.2
101	Bhisti	Day	0.7	600	420
2	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	Day	0.07	2300	161
12	Vibrator (Needle type 40 mm)	Day	0.07	1600	112
9999	Sundries	L.S	13.52	2	27.04
TOTAL					6904.34
Add Water Charges @ 1.0					69.04
Cost of 1.0 cum					6973.38
Say					6973.38/-
Skilled					0
Un Skilled					460.24
Semi Skilled					497.5
Materials					5742.64
Total					6973.38/-

4.1 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:

4.1.8 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum MATERIAL:				
293	Stone Aggregate(single size): 40 mm nominal size - nominal size (0.70 cum -7.5% for voids i.e. 0.05 =0.65 cum)	cum	0.65	1740	1131
295	Stone Aggregate(single size):20 mm nominal size - nominal size	cum	0.24	2040	489.6
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	0.65	0	0
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.24	0	0
982	Coarse sand (zone III)	cum	0.47	4500	2115
2203	Carriage of Coarse sand	cum	0.47	0	0
367	Portland Cement	tonne	0.17	9000	1530
2209	Carriage of Cement - LABOUR:	tonne	0.17	0	0
155	Mason (average)	Day	0.1	775	77.5
114	Beldar	Day	1.63	240	391.2
101	Bhisti	Day	0.7	600	420
2	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	Day	0.07	2300	161
12	Vibrator (Needle type 40 mm)	Day	0.07	1600	112
9999	Sundries	L.S	13.52	2	27.04
TOTAL					6454.34
Add Water Charges @ 1.0					64.54
Cost of 1.0 cum					6518.88
Say					6518.88/-
Skilled					0
Un Skilled					455.74
Semi Skilled					497.5
Materials					5292.64
Total					6518.88/-

4.3 Centering and shuttering including strutting, propping etc. and removal of form work for:

4.3.1 Foundations, footings, bases for columns

Code	Description	Unit	Quantity	Rate	Amount
	<p>Details of cost for footing size 2.7mx2.7mx1.00m Contact area = 10.80 sqm MATERIAL: Assuming shuttering material will become unserviceable after use of 40 times Adding for maintenance @ 10% of cost  Taking salvage value after full use of material @ 25% of cost</p>				
7319	wall form panel 1250x500 mm - Qty taken for cost of using once = $16 \times 0.85 / 40 = 0.34$	each	0.34	1360	462.4
7326	Corner angle 45x45x5 mm 1.50 m long - Qty taken for cost of using once = $4 \times 0.85 / 40 = 0.085$	each	0.085	390	33.15
7327	100 mm channel shoulder 2.5 m long - Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$	each	0.17	1500	255
7328	Double clip (bridge clip) - Qty taken for cost of using once = $16 \times 0.85 / 40 = 0.34$	each	0.34	125	42.5
7329	Single clip - Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$	each	0.17	100	17
7330	M.S. Tube 40 mm dia - M.S. tube 40 mm dia $4 \times 2.7 \text{ m} = 10.8 \text{ m}$ qty taken for cost of using once = $10.8 \times 0.85 / 40 = 0.2295$	metre	0.2295	365	83.77
9999	Sundries - Assembly nuts & bolts	L.S	22.1	2	44.2
9999	Sundries - Carriage LABOUR:	L.S	78	2	156
116	Fitter(grade1)	Day	0.75	700	525
114	Beldar	Day	1.5	240	360
9999	Sundries - Shuttering oil	L.S	52	2	104
9999	Sundries	L.S	26	2	52
TOTAL					2135.02
Add Water Charges @ 1.0					21.35
Cost of 10.8 sqm					2156.37
Cost of 1 sqm					199.66
Say					199.66/-

5.1: Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:

5.1.2 1:1.5:3 (1 cement 1.5 coarse sand :3 graded stone aggregate 20 mm nominal size

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum MATERIAL				
295	Stone Aggregate(single size):20 mm nominal size	cum	0.57	2040	1162.8
297	Stone Aggregate(single size): 10 mm nominal size	cum	0.28	2160	604.8
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.85	0	0
982	Coarse sand (zone III)	cum	0.425	4500	1912.5
2203	Carriage of Coarse sand	cum	0.425	0	0
367	Portland Cement - (0.2833 cum)	tonne	0.4	9000	3600
2209	Carriage of Cement	tonne	0.4	0	0
155	Mason (average)	Day	0.17	775	131.75
114	Beldar	Day	2	240	480
101	Bhisti	Day	0.9	600	540
2	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	Day	0.07	2300	161
12	Vibrator (Needle type 40 mm)	Day	0.07	1600	112
9999	Sundries	L.S	14.3	2	28.6
TOTAL					8733.45
Add Water Charges @ 1.0					87.33
Cost of 1.0 cum					8820.78
Say					8820.78/-
Skilled					0
Un Skilled					567.33
Semi Skilled					671.75
Materials					7308.7
Total					8820.78/-

5.2: Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level excluding cost of centering, shuttering, finishing and reinforcement :

5.2.3 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 9.18 cum MATERIAL:				
295	Stone Aggregate(single size):20 mm nominal size	cum	6.1506	2040	12547.22
297	Stone Aggregate(single size): 10 mm nominal size	cum	2.0196	2160	4362.34
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	8.1702	0	0
982	Coarse sand (zone III)	cum	4.0851	4500	18382.95
2203	Carriage of Coarse sand	cum	4.0851	0	0
367	Portland Cement - (0.02225 cum)	tonne	2.9376	9000	26438.4
2209	Carriage of Cement	tonne	2.9376	0	0
114	Beldar	Day	11.29	240	2709.6
115	Coolie	Day	7.53	240	1807.2
101	Bhisti	Day	8.26	600	4956
123	Mason (brick layer) 1st class	Day	0.92	800	736
124	Mason (brick layer) 2nd class	Day	0.92	750	690
2	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	Day	0.64	2300	1472
12	Vibrator (Needle type 40 mm)	Day	0.64	1600	1024
9999	Sundries	L.S	131.82	2	263.64
9999	Sundries - Extra labour lifting of material upto floor V level: 0.75x9.18x2.5	L.S	420.03	2	840.06
115	Coolie	Day	17.2	240	4128
TOTAL					80357.41
Add Water Charges @ 1.0					803.57
Cost of 9.18 cum					81160.98
Cost of 1 cum					8841.07
Say					8841.07/-
Skilled					80.17
Un Skilled					1029.23
Semi Skilled					615.03
Materials					6844.73
Total					8841.07/-

5.22 Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level

5.22.1 Mild steel and Medium Tensile steel bars

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 quintal MATERIAL: Mild steel bars = 1.00q Add 5% wastage = 0.05 Total = 1.05 q				
1004	Average rate of mild steel round bars for reinforcements - Carriage of steel 1.05/10 = 0.105t	quintal	1.05	6000	6300
2205	Carriage of Steel	tonne	0.105	0	0
9999	Sundries - Cover block LABOUR: For straightening, cutting, bending, binding and placing in position	L.S	26	2	52
102	Blacksmith 1st class	Day	1	800	800
114	Beldar	Day	1	240	240
9999	Sundries - and binding wire	L.S	26.91	2	53.82
TOTAL					7445.82
Add Water Charges @ 1.0					74.46
Cost of 100.0 kg					7520.28
Cost of 1 kg					75.2
Say					75.2/-
Skilled					8
Un Skilled					3.14
Semi Skilled					0
Materials					64.06
Total					75.2/-



5.22 Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level

5.22.6 Thermo - Mechanically Treated bars

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 quintal MATERIAL: Deformed twisted steel bars = 1.00 q Add 5% wastage = 0.05 Total = 1.05q				
1005	Twisted steel/deformed bars	quintal	1.05	6000	6300
2205	Carriage of Steel	tonne	0.105	0	0
9999	Sundries - Cover block LABOUR: For straightening, bending binding and placing in position	L.S	26	2	52
102	Blacksmith 1st class	Day	1	800	800
114	Beldar	Day	1	240	240
9999	Sundries	L.S	26.91	2	53.82
TOTAL					7445.82
Add Water Charges @ 1.0					74.46
Cost of 100.0 kilogram					7520.2

7.1 Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth level with:

7.1.1 Cement mortar 1:6 (1 cement : 6 coarse sand)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum MATERIAL				
1157	Stone for masonry work	cum	1	1600	1600
1154	Through and bond stone size 24 x 24 x 39cm - CARRIAGE:	50 nos	7	1690	236.6
2215	Carriage of Soling stone & masonry stone - 7.00x24cmx39cm = 0.16 cum 1.00 cum + 0.16 cum. = 1.16 cum Cement mortar 1:6 (1 cement : 6 Coarse sand)	cum	1.16	0	0
	Rate as per item Number 3.11 of SH:				



3.11	Mortars LABOUR:	cum	0.33	7367.86	2431.39
125	Mason (for plain stone work) 2nd class	Day	1.07	750	802.5
114	Beldar	Day	1.07	240	256.8
115	Coolie	Day	0.71	240	170.4
101	Bhisti	Day	0.09	600	54
9999	Sundries - Cement concrete 1:6:12	L.S	45.76	2	91.52
9999	Sundries	L.S	4.42	2	8.84
TOTAL					5652.05
Add Water Charges @ 1.0					56.52
Cost of 1.0 cum					5708.57
Say					5708.57/-
Skilled					0
Un Skilled					483.72
Semi Skilled					856.5
Materials					1936.96
Total					5708.57/-

7.2 Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at window sills, ceiling level and the like.

7.2.1 Cement mortar 1:6 (1 cement : 6 coarse sand)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum MATERIAL				
1157	Stone for masonry work	cum	1	1600	1600
1154	Through and bond stone size 24 x 24 x 39cm	50 nos	7	1690	236.6
2215	Carriage of Soling stone & masonry stone - 7.00x 24 cm x 24 cm x39 cm = 0.16 cum 1.00 cum. + 0.16 cum = 1.16 cum Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	1.16	0	0
3.11	Rate as per item Number3.11 of SH: Mortars LABOUR:	cum	0.33	7367.86	2431.39

125	Mason (for plain stone work) 2nd class	Day	1.34	750	1005
114	Beldar	Day	1.45	240	348
115	Coolie	Day	0.71	240	170.4
101	Bhisti	Day	0.09	600	54
9999	Sundries - Cement concrete 1:6:12 Extra Labour for lifting of material upto floor five level.	L.S	56.55	2	113.1

11.7 Cement concrete pavement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including finishing complete.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for one cum MATERIAL: Cement concrete 1:2:4				
4.1.3	Rate as per item Number 4.1.3 of SH: Concrete work Extra labour for laying in floors etc.	cum	1	7993.95	7993.95
124	Mason (brick layer) 2nd class	Day	0.35	750	262.5
114	Beldar	Day	0.18	240	43.2
101	Bhisti	Day	0.05	600	30
9999	Sundries	L.S	19.76	2	39.52
				TOTAL	8369.17
				Add Water Charges @ 1.0	83.69
				Cost of 1.0 cum	8452.86
				Say	8452.86/-
				Skilled	0
				Un Skilled	126.89
				Semi Skilled	292.5
				Materials	39.52
				Total	8452.86/-

13.1 12 mm cement plaster of mix:

13.1.1 1:4 ( 1 cement : 4 fine sand)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm MATERIAL: Cement mortar 1:4(1 cement: 4 fine sand)				
3.4	Rate as per item Number3.4 of SH: Mortars	cum	0.144	8537.86	1229.45
155	Mason (average)	Day	0.67	775	519.25
115	Coolie	Day	0.75	240	180
101	Bhisti	Day	0.92	600	552
9999	Sundries	L.S	12.61	2	25.22
TOTAL					2505.92
Add Water Charges @ 1.0					25.06
Cost of 10.0 sqm					2530.98
Cost of 1 sqm					253.1
Say					253.1/-
Skilled					0
Un Skilled					20.51
Semi Skilled					107.13
Materials					2.52
Total					253.1/-

13.4 12 mm cement plaster of mix:

13.4.1 1:4 ( 1 cement : 4 coarse sand)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm MATERIAL: Cement mortar 1:4 ( 1 cement : 4 coarse sand)				
3.9	Rate as per item Number3.9 of SH: Mortars LABOUR:	cum	0.144	8537.86	1229.45
155	Mason (average)	Day	0.67	775	519.25
115	Coolie	Day	0.75	240	180
101	Bhisti	Day	0.92	600	552
9999	Sundries - Scaffolding and	L.S	12.61	2	25.22

TOTAL	2505.92
Add Water Charges @ 1.0	25.06
Cost of 10.0 sqm	2530.98
Cost of 1 sqm	253.1
Say	253.1/-
Skilled	0
Un Skilled	20.51
Semi Skilled	107.13
Materials	2.52
Total	253.1/-

13.9 Cement plaster 1:3 ( 1 cement : 3 coarse sand) finished with a floating coat of neat cement.

13.9.1 12 mm cement plaster

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm MATERIAL: Cement mortar 1:3 ( 1 cement : 3 coarse sand)				
3.8	Rate as per item Number 3.8 of SH: Mortars LABOUR:	cum	0.144	9707.86	1397.93
155	Mason (average)	Day	0.67	775	519.25
115	Coolie	Day	0.75	240	180
101	Bhisti	Day	0.92	600	552
9999	Sundries - Scaffolding and sundries	L.S	12.61	2	25.22
367	Portland Cement	tonne	0.02	9000	180
2209	Carriage of Cement	tonne	0.02	0	0
155	Mason (average)	Day	0.27	775	209.25
115	Coolie	Day	0.27	240	64.8
9999	Sundries - Scaffolding and sundries.	L.S	8.06	2	16.12
	TOTAL				3144.57
	Add Water Charges @ 1.0				31.45
	Cost of 10.0 sqm				3176.02
	Cost of 1 sqm				317.6
	Say				317.6/-
	Skilled				0
	Un Skilled				27.63

Semi Skilled	128.05
Materials	22.13
Total	317.6/-

13.33 Pointing on stone work with cement mortar 1:3 ( 1 cement : 3 fine sand):

13.33.1 Flush/ Ruled pointing

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm MATERIAL: Cement mortar 1:3 ( 1 cement : 3 fine sand)				
3.3	Rate as per item Number 3.3 of SH: Mortars	cum	0.023	9707.86	223.28
9999	Sundries - LABOUR:	L.S	7.15	2	14.3
155	Mason (average)	Day	0.92	775	713
115	Coolie	Day	1.37	240	328.8
101	Bhisti	Day	0.93	600	558
9999	Sundries - Scaffolding and racking out joints including sundries	L.S	16.12	2	32.24
TOTAL					1869.62
Add Water Charges @ 1.0					18.7
Cost of 10.0 sqm					1888.32
Cost of 1 sqm					188.83
Say					188.83

16.42 Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size ) in pavements, laid to required slope and camber in panels as required including consolidation finishing and tamping complete

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum Cement concrete 1:2:4 mix				
293	Stone Aggregate(single size): 40 mm nominal size	cum	0.52	1740	904.8
295	Stone Aggregate(single size):20 mm nominal size	cum	0.22	2040	448.8
297	Stone Aggregate(single size): 10 mm nominal size	cum	0.11	2160	237.6
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	0.52	0	0

2	Carriage of Stone aggregate below 40 mm nominal size	cum	0.33	0	0
982	Coarse sand (zone III)	cum	0.445	4500	2002.5
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.445	0	0
367	Portland Cement	tonne	0.32	9000	2880
2209	Carriage of Cement - LABOUR:	tonne	0.32	0	0
155	Mason (average)	Day	0.1	775	77.5
114	Beldar	Day	1.63	240	391.2
101	Bhisti	Day	0.7	600	420
2	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	Day	0.077	2300	177.1
12	Vibrator (Needle type 40 mm)	Day	0.07	1600	112
9999	Sundries - Side shuttering: Taking the slab to be 15cm thick and width to be 6 metre, length of road 27 metre= $9.90/24.30 = 0.407\text{sqm}$	L.S	26	2	52
5.9.1	Rate as per item Number 5.9.1 of SH: Reinforced Cement Concrete work	sqm	0.407	199.66	81.26
9999	Sundries	L.S	1.43	2	2.86
TOTAL					7787.62
Add Water Charges @ 1.0					77.88
Cost of 1.0 cum					7865.5
Say					7865.5/-
Skilled					0
Un Skilled					469.08
Semi Skilled					497.5
Materials					6528.56
Total					7865.5/-

60.2.2 Bailing out water Using 5HP Pump- Bailing out water with 5HP engine and pump set including conveyance to site and erection, cost of fuel, lubrication oil and other stores, pay of staff etc complete

Code	Description	Unit	Quantity	Rate	Amount
	1 Day				



MR520	Hire charge of 5 HP engine and pump set - Materials	Day	1	85	85
1235	Diesel oil - Lubricating oil and other stores	Litre	10	75	750
9999	Sundries - Labour	L.S	5	2	10
114	Beldar	Day	1	240	240
115	Coolie - Installation charge	Day	1	240	240
9999	Sundries	L.S	2.5	2	5
TOTAL					1330
Add Water Charges @ 1.0					13.3
Cost of 8.0 hour					1343.3
Cost of 1 hour					167.91
Say					167.91/-
Skilled					0
Un Skilled					61.66
Semi Skilled					0
Materials					106.25
Total					167.91/-

80.2 Earthwork in excavation by manual means over areas (exceeding 30cm in depth, 1.5m in width as well as 10 m2 on plan) including disposal of excavated earth lead upto 50m and lift upto 1.5m disposed earth to be levelled and neatly dressed For foundation

All kinds of soil

Code	Description	Unit	Quantity	Rate	Amount
	Details for 10 cum				
114	Beldar	Day	0.32	240	76.8
115	Coolie	Day	8	240	1920
TOTAL					1996.8
Cost of 10.0 cum					1996.8
Cost of 1 cum					199.68
Say					199.68/-
Skilled					0
Un Skilled					199.68
Semi Skilled					0

Materials	0
Total	199.68/-

80.3 Earthwork in excavation by manual means over areas (exceeding 30cm in depth, 1.5m in width as well as 10 m2 on plan) including disposal of excavated earth lead upto 50m and lift upto 1.5m disposed earth to be levelled and neatly dressed for Open areas

All kinds of soil

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 120 cum				
128	Mate	Day	1.8	240	432
115	Coolie	Day	45	240	10800
	TOTAL				11232
	Cost of 120.0 cum				11232
	Cost of 1 cum				93.6
	Say				93.6/-
	Skilled				0
	Un Skilled				93.6
	Semi Skilled				0
	Materials				0
	Total				93.6/-

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