ABSTRACT

Mahatma Gandhi National Rural Employment Guarantee Act - Revised Rural Schedule of Rates for financial year 2021-22 arrived as per the Time and Motion Study conducted in accordance with the guidelines and Standard template issued by Ministry of Rural Development, Government of India, under Mahatma Gandhi Rural Employment Guarantee Scheme – Approved – Orders – Issued.

RURAL DEVELOPMENT AND PANCHAYAT RAJ (CGS.1) DEPARTMENT

G.O.(Ms). No.29 **Dated: 16.03.2022**
பிலவ, பங்குனி 2
திருவள்ளுவர் ஆண்டு 2052

Read:

From the Director of Rural Development and Panchayat Raj, Letter No.90268/2017/MGNREGS-II-1, dated:15.11.2021.

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ORDER:

The Director of Rural Development and Panchayat Raj in the letter read above, has stated that the Ministry of Rural Development, Government of India had instructed all the States to conduct Time and Motion study (TMS) for standardization of rates adopted for various activities taken-up under Mahatma Gandhi National Rural Employment Guarantee Scheme. A standard template was issued by Ministry of Rural Development for the States to conduct Time and Motion study by engaging any reputed institution. The Director, Rural Development and Panchayat Raj, had requested for Expression of Interest from some of the reputed institutions in the State including the Karunya Institute of Technology and Sciences (KITS), Coimbatore to conduct the Time Motion Study (TMS) for our State. The Ministry of Rural Development, Government of India, communicated the draft guidelines along with standard template comprising of specifications for various activities for which the study was to be conducted. The template dealt with 6 major categories namely, a)Earthwork, b) Desilting /cleaning works, c)Roadwork, d)Social Forestry and Horticulture works, e)Nursery raising and f) Masonry, concrete and miscellaneous items consisting of totally 122 activities.

2. The Director of Rural Development and Panchayat Raj has further stated that as per the Ministry of Rural Development, guidelines, the first step in conducting the study was the preparation of State maps based on soil and climate characteristics, wherein, different geographical areas were grouped into different zones based on various parameters including, Potential Evapotranspiration (PET), Depth to Bedrock (DTB), Digital Elevation Model (DEM) and Soil characteristics. The purpose of

zoning various districts was to segregate areas with similar sets of potentials and constraints. The Karunya Institute of Technology and Sciences (KITS), Coimbatore, submitted a detailed proposal in accordance with the Time and Motion study guidelines issued by Ministry of Rural Development, Government of India, along with budget involved for undertaking this study and timeline for pre-monsoon & post-monsoon study, to the Director, Rural Development and Panchayat Raj. In the proposal, State maps such as Agro-ecological zones Map which define zones on the basis of combinations of soil, landform and climatic characteristics, Potential Evapotranspiration Map, Depth to Bedrock Map, Digital Elevation Model Map and Soil Map were taken into account and based on these maps, the districts in our State were classified into 3 primary zones, namely Northern zone, Southern zone and Western zone and the proposal has been approved by the Director of Rural Development and Panchayat Raj in his letter dated 12.05.2020.

3. The Director of Rural Development and Panchayat Raj has further stated that the finalization of study areas, a team of officials at the Directorate, Rural Development and Panchayat Raj, carried out further analysis of the proposal, by superimposing the above said maps with other parameters such as Mahatma Gandhi National Rural Employment Guarantee Scheme labour turnout and proximity to coastal area, etc. Accordingly, the following districts were finalized by the Director, Rural Development and Panchayat Raj for conducting this study;

- Northern Zone – Chengalpet and Villupuram.
- Western Zone – Erode and Dindigul.
- Southern Zone – Pudukottai and Tirunelveli.

A Memorandum of Agreement was signed between the Director, Rural Development and Panchayat Raj and KITS and the study was initiated at field level in these 6 districts in two phases, pre-monsoon and post-monsoon. It was agreed by KITS that TMS will be completed within a period of eleven months from the date of receipt of 1st installment of sanctioned amount or as per the suggested time frame by Director of Rural Development and Panchayat Raj, NIRD, Hyderabad and Ministry of Rural Development, Government of India, with due considerations to the restrictions imposed by the Government in the context of COVID-19 pandemic spread. It was further agreed that in order to maintain uniformity with the other states wherever TMS has been undertaken, KITS will adopt the standard guidelines prepared by NIRD & PR, Hyderabad and issued by Ministry of Rural Development. Pre-monsoon study was started in the month of July, 2020. Nodal officers were nominated in each of the 6 districts who assisted KITS in site identification and planning of activities for study in their respective districts. The nodal officers were briefed and given clarifications with respect to this study, through virtual meetings conducted by the Directorate.

The following methodology was adopted by KITS for conducting this study and calculation of Rural Schedule of Rates:

- *KITS appointed Field Enumerators (FEs) for collection of data at field level in each of the districts and imparted technical training to the FEs.*
- *KITS developed a software tool named Kobo toolbox for hourly recording of data collected from the field by FEs. The Kobo toolbox was developed in accordance with the standard template for study issued by MoRD.*

- *Associate Team members from KITS evaluated the entries recorded by FEs for any missing/incorrect values.*
- *Details such as name, age, job card number etc., were obtained from the muster roll and additional details such as health issues if any, for the workers at site were collected by FEs through personal interaction and worksite information was collected from the worksite facilitator.*
- *The captured data was converted into a data structure prescribed by NIRD in an Excel file containing details on the sample workers, worksite, wage, work, activity, soil, date and time, group particulars, measured output, season of data collection and work code.*
- *Data validation was carried out by KITS using the software system based on Python programming and then the validated data was used for calculating the output.*
- *The above output basically being Group output, output for an individual worker was then calculated.*
- *The hourly data and individual output of the samples for each activity were segregated by adopting average and regression analysis.*
- *From the sample workers, a typical sample worker based on maximum active time was identified.*
- *The output produced by this sample for the standard time was calculated.*
- *The SoR was finally arrived by dividing the prevailing wage rate by the output calculated for standard time.*

4. The Director of Rural Development and Panchayat Raj has further stated that as per the Standard template communicated by Ministry of Rural Development, Government of India, there were totally 122 activities (in which, about 91 activities are 100% labour-oriented works and the 31 activities involved semi-skilled and skilled workers). The procedure indicated was adopted for calculation of wage rates for all the activities undertaken for study. Post monsoon study was started in the month of January, 2021 and the same methodology used for pre-monsoon study was adopted for calculation of the rates. Draft reports for the studies conducted were submitted by the KITS respectively on 03.03.2021 and 04.06.2021. A State Level Technical Committee was constituted by the Commissioner, Rural Development and Panchayat Raj, to analyze the rates. Detailed analysis of rates was carried out by the Committee through various sittings and the members scrutinized the rates proposed.

Observations of the State Level Technical Committee

- The committee members expressed that the template issued by Ministry of Rural Development, Government of India, for conducting the Time and Motion study differs from the prevailing Rural Schedule of Rates (RSoR) adopted by our State.
- The members of the committee observed that, the specifications for activities in the Ministry of Rural Development template were based on the standard specifications as per rate analysis approved by the Central Public Works Department (CPWD) whereas, Rural Development and Panchayat Raj Department adopts the standard rate analysis of Tamil Nadu Public Works Department (TNPWD), for estimation purposes, which slightly differs from the CPWD's specifications.

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- Considering the fact that Mahatma Gandhi National Rural Employment Guarantee Scheme is a demand-driven scheme and other practical implications in our State, wherein, the actual period of estimation and period of execution may vary, having 2 rates system namely, one for pre-monsoon season and one for post-monsoon season for the same financial year, may impact the final value of the project and also the timely completion of the project and may also lead to difficulties at field level. In such scenario, most of the estimates will require revision of rates during the actual execution of works which is not advisable. Further, the monsoon period in our State is generally 2-3 months only and remaining months being dry season, the committee recommended to adopt a single rate system throughout the year.

Recommendations of the State Level Technical Committee

- *No modifications shall be made to the specifications provided in the standard template issued by MoRD for Time and Motion Study.*
- *For both, Labour-oriented & Material-oriented works, the activities which will not be used for estimation purposes in our State shall be excluded in the revised RSoR.*
- *Most of the material-oriented works will require quality workmanship and thus will mainly involve semi-skilled and skilled labourers only. Hence, rates shall not be proposed for such type of activities in which unskilled labour employment is not feasible. The rate analysis as prescribed by TN PWD which is being adopted for estimation purposes for material-oriented works, will continued to be followed.*
- *MoRD has indicated identification of Gender, Age and Physical ability based rates. At field level, generally, measurement is carried out for the group activity and out-turn is calculated for the group only, from which average out-turn is calculated for disbursal of wages. Hence, there is no Gender–based and age-based disparity in the wage rates disbursed. However, the gender and age dynamics are built into the sample workers involved in the TMS. Thus a single SOR shall apply for all categories of workers.*
- *As far as differently-abled workers are concerned, the prevailing wage rate is entirely paid as wage/day and they are generally employed as Watermen / Water women at the worksite, who can distribute water to the workers, caretaker (to look after the children), assisting the caretaker, assisting the worksite facilitator in premarking and watering (wetting) the area to be desilted.*
- *And in case, if differently-abled workers are engaged in minor field related works such as clearing uprooted jungle (scrub jungle, light jungle), Earthwork in all types of soil, Planting, Watering, Breaking clods, tamping & sectioning and Benching old embankment, then twice the rate that of RSoR fixed for a normal person is adopted i.e. 50% of the average outturn of the normal person is sufficient to fetch full wage/day for differently-abled workers). Thus, the committee recommended that the same norms adopted at present for differently-abled workers shall be continued even after revision of Rural Schedule of rates.*

Based on the recommendations of the Committee, the category-wise activities proposed for inclusion in Rural Schedule of Rates in Tamil Nadu are as follows;

Sl. No.	Category	No. of activities as per MoRD Template			No. of activities included in proposed Revision of RSoR
		Labour oriented	Material oriented	Total	
1.	A – Earthwork	21	0	21	17
2.	B – Desilting / Cleaning Works	2	0	2	2
3.	C – Roadwork	14	3	17	12
4.	D – Social forestry & Horticulture	23	0	23	23
5.	E – Nursery raising	19	0	19	17
6.	F – Masonry, Concrete & Miscellaneous items	12	28	40	18
Total		**91**	**31**	**122**	**89**

5. The Director of Rural Development and Panchayat Raj has further stated that the committee's recommendations were communicated through mail to KITS and based on the recommendations, the final report for pre-monsoon and post-monsoon study was submitted by KITS, letter dated 18.08.2021. Based on the final report submitted by KITS, the State Level Technical Committee calculated the single rate (average of pre-monsoon and post-monsoon rates) for 89 activities to be followed for Rural Schedule of Rates for financial year 2021-22 and has submitted the same to the Director, Rural Development and Panchayat Raj.

6. The Director of Rural Development and Panchayat Raj has therefore requested to approve the revised Rural Schedule of Rates for financial year 2021-22, arrived as per the Time and Motion Study, conducted in accordance with the guidelines and Standard template issued by Ministry of Rural Development, Government of India, under Mahatma Gandhi Rural Employment Guarantee Scheme as given in the annexure.

7. The Government after careful examination, have decided to accept the proposal of the Director of Rural Development and Panchayat Raj and approve the revised Rural Schedule of Rates for financial year 2021-22, arrived as per the Time and Motion Study, conducted in accordance with the guidelines and Standard template issued by Ministry of Rural Development, Government of India, under Mahatma Gandhi Rural Employment Guarantee Scheme as given in the Annexure.

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8. This order is issued with the concurrence of Finance Department vide its U.O.No.12813/Fin(RD)/2022, dated 15.03.2022.

(BY ORDER OF THE GOVERNOR)

P. AMUDHA,
PRINCIPAL SECRETARY TO GOVERNMENT

To
The Director of Rural Development and Panchayat Raj, Chennai – 15.
All District Collectors (Except Chennai) (Thro' the DRD & PR, Chennai – 15)
All Project Directors, DRDA., (Thro' the DRD & PR, Chennai – 15)
The Accountant General, Chennai – 18.

Copy to:
The Pay and Accounts Office (South), Chennai – 35.
The Finance (RD) Department, Chennai – 9
The Chief Minister's Office, Secretariat, Chennai-9.
The Senior Personal Assistant to Hon'ble Minister (Rural Development), Chennai – 9.
The Principal Private Secretary to Principal Secretary to Government, Rural Development and Panchayat Raj Department, Chennai – 9.
The Rural Development and Panchayat Raj (OP.2) / (B&C) Dept., Chennai – 9.
The National Informatics Centre, Chennai – 9.
Spare copy / Stock file

//FORWARDED BY ORDER//

SECTION OFFICER.

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ANNEXURE

G.O.(Ms). No.29, Rural Development and Panchayat Raj (CGS.1) Department, dated 16.03.2022

S.No.	Description of Item		Proposed Schedule of Rates (In Rs.)
A. Earthwork			
1	**Earthwork in excavation by manual means exceeding 1.5 m in width taking out the excavated soil and disposal as directed by Engineer-in-charge**		
	1. Ordinary Soil	i. Lead up to 50 m and lift up to 1.5 m	291.20/cum
		ii. Less output for every additional 25 m lead or part the thereof	331.77/cum
		iii. Less output for every additional 1.5 m lift or part thereof	348.15/cum
	2. Hard Soil	i. Lead up to 50 m and lift up to 1.5 m	366.89/cum
		ii. Less output for every additional 25 m lead or part the thereof	412.10/cum
		iii. Less output for every additional 1.5 m lift or part thereof	423.60/cum
	3. Soft Disintegrated Rock (SDR)	i. Lead up to 50 m and lift up to 1.5 m	428.68/cum
		ii. Less output for every additional 25 m lead or part the thereof	477.14/cum
		iii. Less output for every additional 1.5 m lift or part thereof	502.37/cum
2	**Earthwork in rough excavation, banking excavated earth in layers not exceeding 20 cm in depth, breaking clods (5cm to 7 cm size) watering, compacting each layer with wooden or steel rammers and dressing up in embankment for construction of roads, flood banks, marginal banks, guide banks or filling up ground depressions including removal of small stones/pebbles, shrubs, watering (rolling with power roller to be done separately where ever required). (For ponds/dam/roads/canal/water retaining structures/tanks etc.)**		

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S.No.	Description of Item		Proposed Schedule of Rates (In Rs.)
	1. Ordinary Soil	i. Lead up to 50 m and lift up to 1.5 m	318.21/cum
		ii. Less output for every additional 25 m lead or part the thereof	362.11/cum
		iii. Less output for every additional 1.5 m lift or part thereof	376.21/cum
	2. Hard Soil	i. Lead up to 50 m and lift up to 1.5 m	420.52/cum
		ii. Less output for every additional 25 m lead or part the thereof	469.11/cum
		iii. Less output for every additional 1.5 m lift or part thereof	482.73/cum
	3. Soft Disintegrated Rock (SDR)	i. Lead up to 50 m and lift up to 1.5 m	496.59/cum
		ii. Less output for every additional 25 m lead or part the thereof	536.29/cum
		iii. Less output for every additional 1.5 m lift or part thereof	550.38/cum
3	**Banking available/excavated earth in layers not exceeding 20 cm in depth, breaking clods (5 cm to 7 cm), watering, compacting each layer with wooden or steel rammers and dressing up, in embankments for roads, flood bank, marginal banks and guide bank etc as directed by Engineer-in- charge (rolling with power roller to be done separately wherever required)**		
	1. Ordinary Soil	i. Lead up to 50 m and lift up to 1.5 m	308.50/cum
		ii. Less output for every additional 25 m lead or part the thereof	354.25/cum
		iii. Less output for every additional 1.5 m lift or part thereof	367.79/cum
	2. Hard Soil	i. Lead up to 50 m and lift up to 1.5 m	395.68/cum
		ii. Less output for every additional 25 m lead or part the thereof	438.47/cum

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S.No.	Description of Item		Proposed Schedule of Rates (In Rs.)
		iii. Less output for every additional 1.5 m lift or part thereof	454.56/cum
	3. Soft Disintegrated Rock (SDR)	i. Lead up to 50 m and lift up to 1.5 m	490.92/cum
		ii. Less output for every additional 25 m lead or part the thereof	493.40/cum
		iii. Less output for every additional 1.5 m lift or part thereof	506.02/cum
4	**Excavation work by manual means in foundation trenches or drains (not exceeding 1.5 m in width) including dressing of sides and ramming of bottoms and getting out the excavated soil and disposal of surplus excavated soil as directed**		
	1. Lead up to 50 m and lift up to 1.5 m		
	i. Ordinary Soil		285.90/cum
	ii. Hard Soil		339.86/cum
	iii. Soft Disintegrated Rock (SDR)		406.93/cum
	2. Less output for every additional 1.5 m lift or part thereof		
	i. Ordinary Soil		302.17/cum
	ii. Hard Soil		378.22/cum
	iii. Soft Disintegrated Rock (SDR)		424.51/cum
5	**Earthwork in surface excavation not exceeding 30 cm in depth but exceeding 1.5 meter in width as well as 10 sq. m on plan including getting out and disposal of excavated earth as directed by Engineer-in-charge (disposed earth to be neatly dressed and leveled)**		
	1. Ordinary Soil	i. Lead up to 50 m and lift up to 1.5 m	239.28/cum
		ii. Less output for every additional 25 m lead or part the thereof	275.95/cum
	2. Hard Soil	i. Lead up to 50 m and lift up to 1.5 m	316.96/cum

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S.No.	Description of Item		Proposed Schedule of Rates (In Rs.)
		ii. Less output for every additional 25 m lead or part the thereof	348.41/cum
	3. Soft Disintegrated Rock (SDR)	i. Lead up to 50 m and lift up to 1.5 m	449.15/cum
		ii. Less output for every additional 25 m lead or part the thereof	475.26/cum
6	**Less output for work executed in or under water or in foul condition (over the main item concerned is allowed on account of slow progress of works)**		293.40/cum
7	**Filling excavated earth (excluding rock) / moorum in trenches, plinth, sides of foundations etc, in layers not exceeding 20 cm in depth, consolidating each deposited layer by means of ramming and watering, lead up to 50 m and lift up to 1.5 m**		128.63/cum
8	**Surface dressing and land leveling of the ground including removing vegetation and undulations not exceeding 0.15 m deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m**		34.44/cum
9	**Layout/Dag belling 7.5 to 10 cm deep**		29.69/sqm
10	**Excavation of puddle trench for earthen embankment to proper side slopes and bed grade including shoring wherever necessary dressing (FOR EARTHEN DAM)**		
	1. Ordinary Soil	i. Lead up to 50 m and lift up to 1.5 m	310.34/cum
		ii. Less output for every additional 25 m lead or part the thereof	347.03/cum
		iii. Less output for every additional 1.5 m lift or part thereof	359.20/cum
	2. Hard Soil	i. Lead up to 50 m and lift up to 1.5 m	322.00/cum
		ii. Less output for every additional 25 m lead or part the thereof	352.47/cum
		iii. Less output for every additional 1.5 m lift or part thereof	422.78/cum

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S.No.	Description of Item		Proposed Schedule of Rates (In Rs.)
	3. Soft Disintegrated Rock (SDR)	i. Lead up to 50 m and lift up to 1.5 m	458.01/cum
		ii. Less output for every additional 25 m lead or part the thereof	487.56/cum
		iii. Less output for every additional 1.5 m lift or part thereof	559.11/cum
11	**Puddle filling of good clay (cohesive soil) including lead up to 50 m including mixing watering and kneading by tamping ramming and laying etc (FOR EARTHEN DAM)**		334.67/cum
12	**Earthwork for well excavation including disposal of excavated soil, disposed soil to be leveled and neatly dressed as per direction of Engineer-in- charge**		
	1. Ordinary Soil	i. Lead up to 50 m and lift up to 1.5 m	289.83/cum
		ii. Less for every 0.50 m after 1.5 m initial depth up to 6.0 m	337.20/cum
	2. Hard Soil	i. Lead up to 50 m and lift up to 1.5 m	378.30/cum
		ii. Less for every 0.50 m after 1.5 m initial depth up to 6.0 m	418.00/cum
	3. Soft Disintegrated Rock (SDR)	i. Lead up to 50 m and lift up to 1.5 m	420.53/cum
		ii. Less for every 0.50 m after 1.5 m initial depth up to 6.0 m	467.10/cum
A. Earthwork - Watercourses / channels			
13	**Earthwork in embankment in dry or moist soil including laying in layers of 15 cm, breaking of clods, dressing to required profile with manual compaction to attain a minimum of 85% of proctor density with lead up to 50 m and lift up to 1.5 m including watering and compaction with rammers (by shifting soil manually from reverse grade, higher patches etc).**		421.48/cum

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S.No.	Description of Item	Proposed Schedule of Rates (In Rs.)
14	**Excavation in loose soil / silt / pebbles and river boulders etc dry or moist including dressing and disposal of excavated material with lead up to 50 m and lift up to 1.5 m and putting it in the banks of the watercourse including compaction.**	282.85/cum
15	**Dressing of uneven embankments in required profile of the water courses.**	23.19/sqm
16	**Cutting and clearance of bushes, shrubs Ankara / ipomoea, julia flora typha etc on canals, water courses, bunds in dry/moist/slushy conditions including disposal.**	
	i. Less than 50 % coverage area	20.23/sqm
	ii. more than 50 % coverage area	27.70/sqm
17	**Re-handling of excavated material including loading, unloading, dressing and watering for work in watercourses, channels etc.**	
	i. Lead up to 50 m and lift up to 1.5 m	390.49/cum
	ii. Less output for every additional 25 m lead or part thereof	432.36/cum
	iii. Less output for every additional 1.5 m lift or part thereof	448.57/cum
B. Desilting/cleaning works		
18	**Desilting of small earthen channels, water bodies, ponds, canals, check dams, MI tanks etc by removal of dry silt and disposal**	
	i. Lead up to 50 m and lift up to 1.5 m	254.37/cum
	ii. Less output for every additional 25 m lead or part the thereof	283.94/cum
	iii. Less output for every additional 1.5 m lift or part thereof	296.37/cum
19	**Desilting of small earthen channels, water bodies, ponds, canals, check dams, MI tanks etc by removal of saturated silt (not under water) and disposal**	
	i. Lead up to 50 m and lift up to 1.5 m	248.34/cum

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S.No.	Description of Item	Proposed Schedule of Rates (In Rs.)
	ii. Less output for every additional 25 m lead or part the thereof	310.53/cum
	iii. Less output for every additional 1.5 m lift or part thereof	332.35/cum
C. Road work		
20	**Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material.**	
	i. Girth above 150 mm to 300 mm	216.32/each
	ii. Girth above 301 mm to 600 mm	256.50/each
21	**Clearing jungle including uprooting rank vegetation, grass, brush wood, bushes, shrubs, saplings and trees of girth up to 30 cm measured at a height of 1 m above ground level and removal of stumps of such trees cut earlier, removal of rubbish up to a distance of 50 m outside the periphery of the area cleared and stacking of serviceable material to be used or auctioned.**	24.39/sqm
22	**Clearing of grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.**	27.75/sqm
23	**Earthwork in filling for construction of road embankment from burrow pits with a lead up to 50 m and lift up to 1.5 m, spreading, grading, laying in 20 cm layers to required slope and camber, compacting with hand rammer complete as directed (rolling with road roller to be done wherever required).**	
	i. Ordinary Soil	318.14/cum
	ii. Hard Soil	420.16/cum
	iii. Soft Disintegrated Rock (SDR)	496.10/cum

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S.No.	Description of Item	Proposed Schedule of Rates (In Rs.)
24	**Spreading of moorum / kankar / shingle / gravel / red bajri and leveling to gradient and required camber including dressing.**	303.52/cum
25	**Compacting each layer of 15 cm thickness in GSB / WBM / earth / moorum / kankar / shingle / gravel / red bajri**	
	i. with hand stone, wooden or steel rammers and dressing up for construction of earthen roads / pathways as directed.	25.55/sqm
26	**Earthwork in rough excavation involving an average horizontal throw of 2 m and average lift up to 0.5 m banking excavated earth in layers not exceeding 20 cm in depth. breaking clods (5 cm to 7 cm) watering, compacting each layer with hand stone. wooden or steel rammers and dressing up for construction of earthen roads/pathway as directed (rolling with power roller to be done separately where ever required).**	340.73/cum
27	**Earth cutting (box cutting) in road embankment, removing the spoils, spreading over the shoulder, watering, compaction and dressing sub-grade to correct camber and grade (for widening / extension / up gradation of roads).**	
	i. Depth of cutting up to 15 cm	42.29/sqm
	ii. Depth of cutting beyond 15 cm up to 25 cm	70.23/sqm
	iii. Depth of cutting beyond 25 cm up to 30 cm	85.35/sqm
28	**Earthwork in excavation (hill side cutting) by manual means and disposal of excavated earth up to lead of 50 m**	
	i. Ordinary Soil	306.48/cum
	ii. Hard Soil	372.405/cum

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S.No.	Description of Item	Proposed Schedule of Rates (In Rs.)
29	**Construction of gravel/soil aggregate sub-base/base by providing well graded material of nominal size grading 80 mm as per Table 2.3 of IRC SP 77-2008, spreading in uniform layers appropriate grading arrangements on prepared surface, watering and compaction with 8-10 ton power roller to achieve the desired density and camber complete as per specifications contained in para 2.2, 3.6 and 3.7 of IRC SP 77-2008 (only unskilled labour component to be measured, materials and machinery will be supplied separately).**	366.42/cum
30	**Laying precast cement concrete interlocking paver block/tiles of approved size, design & shape, laid in required color and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge**	35.46/sqm
31	**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.**	669.72/cum
D. Social Forestry and Horticulture Works		
32	**Survey, alignment and demarcation of plantation area and pits including inspection strips as per directions of Engineer-in-charge.**	570.45/hectare
33	**Survey, alignment and demarcation of road side / avenue plantation and pits as per directions.**	306.25/kilometer
34	**Cleaning and cutting bushes in plantation area / sites just before start of plantation.**	33100.37/hectare
35	**Grass sodding / turfing on both side of drains, embankment slope and shoulder including collection of sods**	
	i. Sods obtained within a lead of 30 m.	42.07/sqm
	ii. Sods obtained within a lead beyond 30 m.	50.45/sqm

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S.No.	Description of Item	Proposed Schedule of Rates (In Rs.)
36	**Construction of safety trench**	
	i. 1.2 m wide in upper side, 0.8 m wide in bottom and 1.0 m depth	270.65/meter
	ii. 1.5 m wide in upper side, 0.7 m wide in bottom and 0.9 m depth	270.34/meter
37	**Digging of ditch cum bund 1.5 m x 0.9 m x 1.2 m dimension and making hump by using excavated soil (cattle proof trench -CPT)**	
	i. Ordinary soil	247.02/cum
	ii. Hard soil	274.81/cum
	iii. Soft Disintegrated Rock (SDR)	477.08/cum
38	**Digging of pits for plant in all types of soils including removal of stones etc**	
	1. Ordinary soil	
	i. 0.3 m x 0.3 m x 0.3 m	12.66/each
	ii. 0.45 m x 0.45 m x 0.45 m	30.30/each
	iii. 0.6 m x 0.6 m x 0.6 m	73.38/each
	iv. 0.9 m x 0.9 m x 0.9 m	220.59/each
	2. Hard soil	
	i. 0.3 m x 0.3 m x 0.3 m	20.25/each
	ii. 0.45 m x 0.45 m x 0.45 m	38.71/each
	iii. 0.6 m x 0.6 m x 0.6 m	93.34/each
	iv. 0.9 m x 0.9 m x 0.9 m	304.97/each
	3. Soft Disintegrated Rock (SDR)	
	i. 0.3 m x 0.3 m x 0.3 m	24.22/each
	ii. 0.45 m x 0.45 m x 0.45 m	43.76/each
	iii. 0.6 m x 0.6 m x 0.6 m	110.48/each
	iv. 0.9 m x 0.9 m x 0.9 m	330.34/each
39	**Planting, manuring, earth filling, application of insecticides, preparation of thawla i.e. suacer pit / ring basin, sticking for support of plant wherever required and watering at least 15 litre of water per plant after plantation.**	
	i. 0.3 m x 0.3 m x 0.3 m	15.03/each

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S.No.	Description of Item	Proposed Schedule of Rates (In Rs.)
	ii. 0.45 m x 0.45 m x 0.45 m	18.30/each
	iii. 0.6 m x 0.6 m x 0.6 m	25.69/each
	iv. 0.9 m x 0.9 m x 0.9 m	32.42/each
40	**Bio fencing by preparation of plant cuttings of length 1.5 m, planting in pits of 0.3 m depth and up to 0.075 m diameter at a spacing of 0.3 m, farming of bund of 0.3 m base width and 0.2 m height, bracing and horizontal ties at two levels using plant cuttings, tied with coir.**	42.82/meter
41	**Fixing tree guard of size of 1 m dia and 1.5 m height for plantation including collection/ transportation and fixing at site with locally available wood / materials.**	124.68/each
42	**Fixing bamboo tree guard having 4 bamboo panels of size of 0.75m width and 2 m height, each bamboo panel with reaps at 10cm spacing at 1.5m height (leaving 20cm space at top and 30cm space at bottom) for plantation including collection/ transportation and fixing at site.**	120.05/each
43	**Fixing of pre-fabricated tree guard for plantation at site.**	15.45/each
44	**Erection of live hedge/ brush wood fencing around plantation site including collection and carriage of fencing materials up to site.**	90.33/meter
45	**Gap filling/ vacancy filling / casualties replacement including excavation, refilling soil, application of 15 litre water, farm yard manure and insecticides**	
	i. 0.3 m x 0.3 m x 0.3 m	15.49/each
	ii. 0.45 m x 0.45 m x 0.45 m	17.37/each
	iii. 0.6 m x 0.6 m x 0.6 m	24.97/each
	iv. 0.9 m x 0.9 m x 0.9 m	29.99/each
46	**Watering to the plants in block plantation by bringing water from available water source in the locality.**	
	i. Within a distance of 25 m	260.66/100 nos.
	ii. Beyond a distance of 25 m	290.65/100 nos.

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S.No.	Description of Item	Proposed Schedule of Rates (In Rs.)
47	**Watering to the plants in linear plantation by bringing water from available water source in the locality.**	
	i. Within a distance of 25 m	289.71/100 nos.
	ii. Beyond a distance of 25 m	329.58/100 nos.
48	**Weeding, cleaning and mulching with application of fertilizer**	
	i. 1st time	589.51/100 nos.
	ii. 2nd time	589.51/100 nos.
	iii. 3rd time	589.51/100 nos.
49	**Loading and unloading poly bags container plant in private vehicles / departmental vehicles (excluding hire charges vehicles)**	79.23/100 nos.
50	**Transportation of polythene container seedling by head loads to the places where the approach roads are not available to take vehicle to plantation area.**	402.97/100 nos.
51	**Internal distribution of seedlings in the plantation area**	220.88/100 nos.
52	**Planting grass roots (i.e. vetiver grass etc.) under trenches at a distance of 40 cm vertically and 1/.0 to 2.5 m horizontally as per directions of the Engineer-in-charge.**	150.65/100 nos.
53	**Filling with bio- manure / fertilizer in roots of grass roots (i.e. vetiver grass etc.) in layers not exceeding 15 cm including watering and ramming etc.**	130.61/100 nos.
54	**Ring cutting, mixing of soil, cutting of polythene bag, layering, detaching layered portion, filling and mixing of soil, filling pot and planting for vegetal propagation like lemon, guava, bay leaf etc.**	5500/1000 nos
E. Nursery raising		
55	**Preparation of nursery by clearing and leveling the site (including space between beds) for farming 10 standard beds of 10 m x 1.2 m size .**	470.73/each

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S.No.	Description of Item	Proposed Schedule of Rates (In Rs.)
56	**Formation of 10 nos. of germination / nursery beds including digging of soil 30 cm deep cleaning of debris of dug out soil, allowing the soil for weathering , breaking of clods, mixing sand / good earth and bio manure in 1:3 proportion (1 bio- manure :3 sand/soil) of size 10 m x 1.2 m and raising the bunds as per direction.**	920.40/each
57	**Re- formation of 10 nos. of old germination / nursery bed including digging of soil 30cm deep, cleaning of debris of dug out soil , for weathering breaking of clouds, mixing sand / good earth and supplementing bio- manure as per direction in the bed of size 10 m x 1.2 m and mending the raised bunds.**	460.32/each
58	**Sowing of treated seeds in mother beds of size 10 m x1.2 m as per directions.**	201.82/10 nos.
59	**Watering the germination beds twice daily with the rose can / sprinkler.**	150.14/10 nos.
60	**Watering the germination beds once daily with the rose can / sprinkler.**	75.10/10 nos.
61	**Preparation of soil mixture by breaking clods, sieving and mixing with fertile earth (including red soil, silt and sand etc. according to requirements) and bio-manure at the ratio 3:1 heaping at the filling and filling in polythene bags and arranging bags in beds (excluding the cost of earth, farmyard manure).**	232.79/100 nos.
62	**Pricking out seedlings from mother bed and transplanting them in poly bags.**	176.05/100 nos.
63	**Dibbling / sowing of seeds in polybags.**	44.88/100 nos.
64	**Watering.the seedlings in poly bags once daily with the rose can/ sprinkler.**	75.65/100 nos.
65	**Forming of brush wood / appropriate fencing around nursery.**	90.11/meter
66	**Shifting the poly bags containing seedlings, weeding, grading etc and replacement of causalities within nursery.**	31.86/100 nos.
67	**Spraying of insecticides on plants when required.**	850.55/20000 nos.

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S.No.	Description of Item	Proposed Schedule of Rates (In Rs.)
68	**Grading and shifting of seedlings (3 times)**	192.70/100 nos.
69	**Preparing roots / shoot cutting of teak, semal, sheesham etc including of plants, making and ball plants (complete work).**	248.00/100 nos.
70	**Shifting of ball plants.**	
	i. After 6 month.	120.00/100 nos.
	ii. After 12 month.	145.00/100 nos.
71	**Preparing branch cutting of poplar, mulberry, pipal, bargad, gular, salix etc. and planting in beds.**	200.80/100 nos.
F. Masonry, Concrete and Miscellaneous items		
72	**Filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.**	125.02/cum
73	**Carriage of construction materials from a nearby quarry / road point / riverbed on head load up to 50 m lead.**	
	Bricks	
	i. Lead up to 50 m	1168.40/1000 nos.
	ii. Additional lead of 50 m beyond initial lead of 50 m	3215.63/1000 nos.
74	**Loading of stone, gravel, sand, limestone, murram, debris or wood in a vehicle.**	109.76/cum
75	**Unloading of stone gravel, sand, limestone, murram, debris or wood from a vehicle.**	111.06/cum
76	**Random rubble masonry with hard stone in foundation and plinth up to plinth level 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 Cement mortar 1:6 (1 cement : 6 coarse sand).**	595.14/cum

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S.No.	Description of Item	Proposed Schedule of Rates (In Rs.)
77	**Random rubble masonry with hard stone in superstructure (up to 4 m height) above plinth, including leveling with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) with Cement mortar 1:6 (1 cement : 6 coarse sand).**	595.46/cum
78	**Dry random rubble stone masonry / uncoursed rubble stone masonry laid in breast walls, Gabions, retaining walls well bonded faced with selected stones and built through / bond stones evenly placed at the rate of minimum two per sq. m.**	
	i. Lead up to 50 m and lift up to 1.5 m	403.60/cum
	ii. Less output for every additional 25 m lead or part thereof	523.58/cum
	iii. Less output for every additional 1.5 m lift or part thereof	742.69/cum
79	**Brick work with common burnt clay F.P.S. (non modular) bricks of specified class designation in foundation and plinth in specified grade (all grades) of cement mortar.**	590.44/cum
80	**Brick work with common burnt clay F.P.S. (non-modular) bricks of specified class designation in superstructure specified grate (all grades) of cement mortar.**	649.58/cum
81	**Brick work 7.5 cm thick (brick on edge) with common burnt clay F.P.S. (non-modular) bricks of specified class designation in specified cement mortar in superstructure (up to 4 m height) above plinth level.**	649.41/cum
82	**Half brick masonry with common burnt clay F.P.S. (non-modular) bricks of specified class designation in superstructure (up to 4 m height) in specified cement mortar.**	67.52/sqm
83	**Preparation of cement mortar of any specified grade for miscellaneous works as directed at site.**	95.15/cum
84	**Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering- All work up to plinth level (RCC)**	1455.37/cum

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S.No.	Description of Item	Proposed Schedule of Rates (In Rs.)
85	**Laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping bed blocks, anchor blocks, plain window sills,. fillets, sunken floor etc., (up to 4 m height) excluding the cost of centering, shuttering and finishing (RCC)**	1544.19/cum
86	**Cement plaster of specified mix with thickness**	
	i. 8 mm to 12mm	43.60/sqm
	ii. 12 mm to 15mm	53.55/sqm
	iii. 20 mm	129.10/sqm
87	**Small stone (size more than 40 mm) bunding including collection from the local site and placing in the bunds only for earthen construction of rock toe in earthen embankment including laying and hand packing, dressing, wedging and finishing over surface with:**	
	i. Boulders	400.51/cum
88	**Brick work with common burnt clay modular bricks of specified class designation in foundation and plinth in specified grade (all grades) of cement mortar.**	590.71/cum
89	**Brick work with common burnt clay modular bricks of specified class designation in superstructure specified grade (all grades) of cement mortar.**	649.76/cum

Rural Schedule of Rates for abled-men, abled-women and differently-abled labourers

- There shall be no disparity in the wage rates disbursed for abled-men and abled - men.
- The special activities identified where the differently-abled workers were able to work for 8 hours and shall be paid the whole wage rate as applicable:

Special activities	
1) Watermen / Water women at the worksite, who can distribute water to the workers	**Notified wage rate for the Financial Year/per day per person**
2) Caretaker to look after the children	
3) Assisting the caretaker for every 5 child one additional assistant can be employed	
4) Assisting the worksite facilitator in premarking (if the No. of worker is above 100 then 1 differently-abled person shall be permitted to assist the worksite facilitator)	
5) Watering (Wetting) the area to be desilted (especially in summer)	

If engaged in minor works related to desilting activities as listed below, the rates for all the items shall be twice that of RSoR fixed for normal persons as noted below:

1) Clearing uprooted jungle scrub jungle, light jungle	**50% of the average outturn of the normal person (Twice the rate that of RSoR fixed for the normal persons)**
2) Earthwork in all types of soil	
3) Planting	
4) Watering	
5) Breaking clods, tamping & sectioning	
6) Benching old embankment	
7) Any other works covered under RSoR	

P. AMUDHA,
PRINCIPAL SECRETARY TO GOVERNMENT,

//True copy//

SECTION OFFICER.

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