

18/10/15

Part A
Model cost Detailed and Abstract Estimate

Name of work: Model estimate of construction Boulder check

Financial Year : 2015-16

Head of Account = Mahatma Gandhi NREGS Karnataka

Important notes

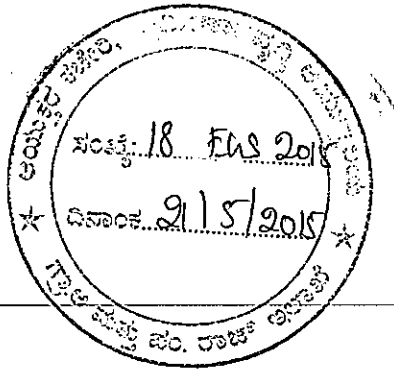
1. Some of the rates adopted in this estimate are as per M.I. Circle schedule of rates of Bengaluru for 2014-15 continued for 2015-16.
2. The area weightage pertaining to the respective areas to be adopted as per respective schedule of rates of respective circles of respective departments.
3. Some of the rates adopted in this estimate are also Nrega SoR for year 2015-16.
4. This is only a model estimate, the Officer/Engineer-in-charge should visit the site and prepare the estimate based on (i) Actual site conditions width and depths . (ii) Foundation to be designed as per existing geological conditions.
5. The overall variations in the cost should not exceed 10% of the estimated cost. In case if it exceeds 10% same should be got approved from the Commissionerate.
6. For procurement of material KTPP Act 1999 and rules 2000 to be followed.
7. For purpose of this estimate average lead of 25km is considered and lead charges are worked out as per MI SR .For actual estimate actual approve leads leads should be considered and estimate be prepared
8. Where rates are not available market rates are considered

Sl no	Item as per SoR(prevaling nrega or line dept or as per approved Data Sheet) or as per market	Unit	Quantity	Rate (In Rs)	Amount (in Rs) (col 4 x col 5)
1	2	3	4	5	6
1	Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conducts either in pits or in trenches 1.5m and above in width, in Hard soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specification Including shoring strutting danger lighting (NREGA SoR 2015-16) for ordinary soil	CUM	30.00	198.06	5941.80
2	a Supply of hard granite or hard basalt boulders stones weighing not less than 40 kg each(Exclusive of lead loading and unloading) (Market rate)	CUM	37.85	200.00	7570.00
	b Extra Lead charges upto 25kms (Item No.5 P No 21 of M I Circle Bangalore for the year 2014-15) Rate analysis Lead charges up to 5km =107.10 Lead charges beyond 5km up to 25km (20x9.20) = 184.00 Total rate = 291.10	CUM	37.85	291.10	11018.14
	c Loading and unloading charges (Item No.5 P No 21 of M I Circle Bangalore for the year 2014-15) (83.20+41.60) = 124.80	CUM	37.85	124.80	4723.68



PWD

3	<p>Constructing boulder check using above dry coursed rubble stone for protective walls and other similar works including cost of labour, hand packing wedgins, finishing etc., complete Excluding lead, lift, loading and unloading charges (No.30.1/P-230/PWD/2014-15)</p> <p>Rate analysis Basic rate =1138.00 Deduct for cost of boulder(i.e, supply lead and loading unloading =200+291.10+124.80) = - <u>615.90</u> net 522.10</p>	CUM	37.85	522.10	19761.48
	Sub total				49015.10
4	Add 1% for technical supervision				490.15
	Sub total				49505.25
5	Add sharpening charges 81 persons Rs 10/day /person				810.00
6	Name Board and Rounding off				1684.75
					52000.00
Total					
Sign of Engineer			Sign of PO/EO		



PND3

Detailed Estimates

Name of work: Name of work model estimate for construction of Bolder check

Financial Year : 2015-16

Head of Account = Mahatma Gandhi NREGS Karnataka

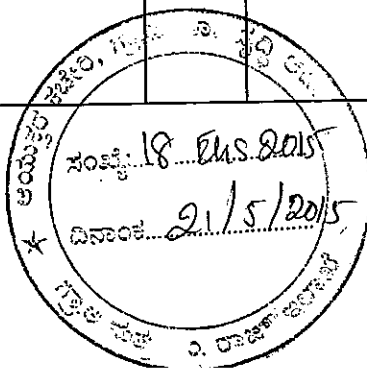
Important notes

1. Some of the rates adopted in this estimate are as per M.I. Circle schedule of rates of Bengaluru for 2014-15 continued for 2015-16.
2. The area weightage pertaining to the respective areas to be adopted as per respective schedule of rates of respective circles of respective departments.
3. Some of the rates adopted in this estimate are also Nrega SoR for year 2015-16.
4. This is only a model estimate, the Officer/Engineer-in-charge should visit the site and prepare the estimate based on (i) Actual site conditions. (ii) Foundation to be designed as per existing geological conditions.
5. The overall variations in the cost should not exceed 10% of the estimated cost. In case if it exceeds 10% same should be got approved from the Commissionerate.
6. For procurement of material KTPP Act 1999 and rules 2000 to be followed.
7. For purpose of this estimate average lead of 25km is considered and lead charges are worked out as per MI SR .For actual estimate actual approve leads leads should be considered and estimate be prepared

Sl no	Item as per SoR(prevaling nrega or line dept or as per approved Data Sheet) or as per market	Unit	Measurements				Quantity
			No	Length (in Mt)	Breadth (in Mt)	Depth (in Mt)	
1	2	3	4	5	6	7	8
1	Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conducts either in pits or in trenches 1.5m and above in width, in Hard soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specification Including shoring strutting danger lighting (NREGA SoR 2015-16) for ordinary soil	CUM					
	Foundation	CUM	1	6.00	5.00	1.00	30.00
2	Supply of hard granite or hard basalt boulders stones weighing not less than 40 kg each(Exclusive of lead loading and unloading) (Market rate)	CUM					
	a)bed portion						
	Foundation	CUM	1	6.00	5.00	1.00	30.00
	b) -do- for curved Super structure	CUM					7.85
	$\{(\pi d^2/4) \times \text{Length} \times 1/2\}$				$\frac{3.14 \times 2 \times 2 \times 5.00}{4 \times 2}$		
	Total						37.85
3	Constructing boulder check using above dry coursed rubble stone for protctive walls and other works (No.30.1/P-230/PWD/2014-15)	CUM					37.85

Sign of Engineer

Sign and seal of Executive officer



part B

Part B

Detailed Estimation (Calculation) of labour and Material requirement

Name of work model estimate for construction of Bolder check

Name of work =

Financial year =

Head of Account =

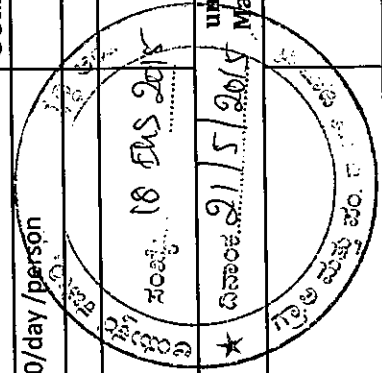
Work Code(As in nregasoft)

2015-16

Mahatma Gandhi NREGS Karnataka

Sl no	Item as per SoR(prevaling nrega or line dept or As per approved Data Sheet) as in part A detailed and abstract estimate	Unit	Quantity	Unskilled Labour Component		Skilled, Semi skilled wage and Material component including essential machinery like rollers etc but excluding unskilled labour displacing machinery	
				No of Person days	Wage rate for 2015-16 fixed by GOI, MoRD (col.5xcol.6)		
			4	5	6	7	
1	2	3	4	5	6	7	8
1	Earth work excavation for foundation of buildings, (NREGA SOR 2015-16)	CUM	30.00	29.12	204.00	5940.48	-
2	Supply of hard granite or hard basalt boulders of size 150mm to 450mm at quarry (Market rate)	CUM	37.85		204.00		7570.00
	Extra Lead charges upto 25kms (Item No.5 P No 21 of MI Circle Bangalore for the year 2014-15)	CUM	37.85				11018.14
	Loading and unloading charges (Item No.5 P No 21 of MI Circle Bangalore for the year 2014-15)	CUM	37.85	23.15	204.00	4722.60	
3	Constructing boulder check using above dry coursed rubble stone (No.30.1/P-230/PWD/2014-15)(labour heavy @0.75per cum per day)	CUM	37.85	28.38	204.00	5789.52	13971.96
4	Add 1% for technical supervision	CUM					496.16
5	Add sharpening charges 81 persons Rs 10/day /person						810.00
6	Name Board and Rounding off						1684.75
	Total			80.65 say 81		16452.60	35551.01

unskilled labour % - 31.64%
Material Amount % - 68.36%

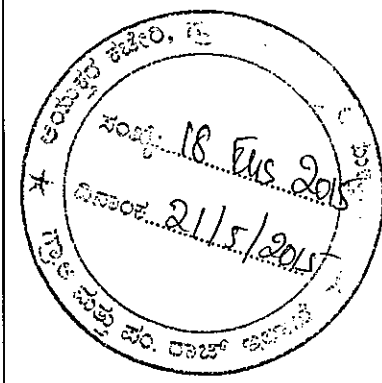
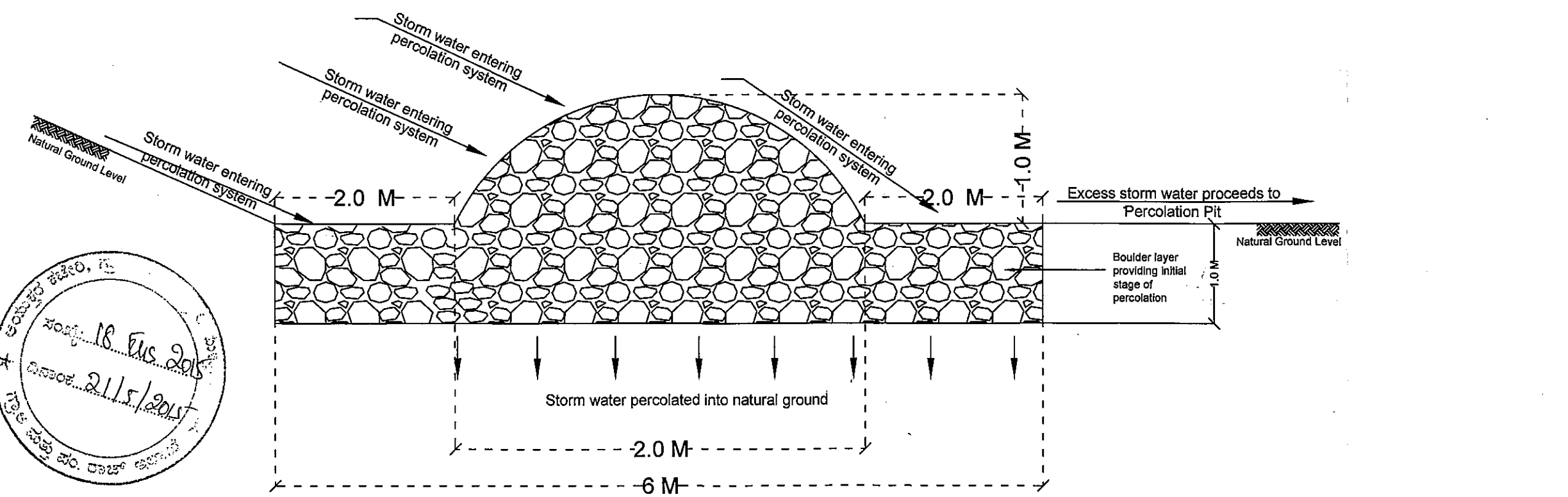
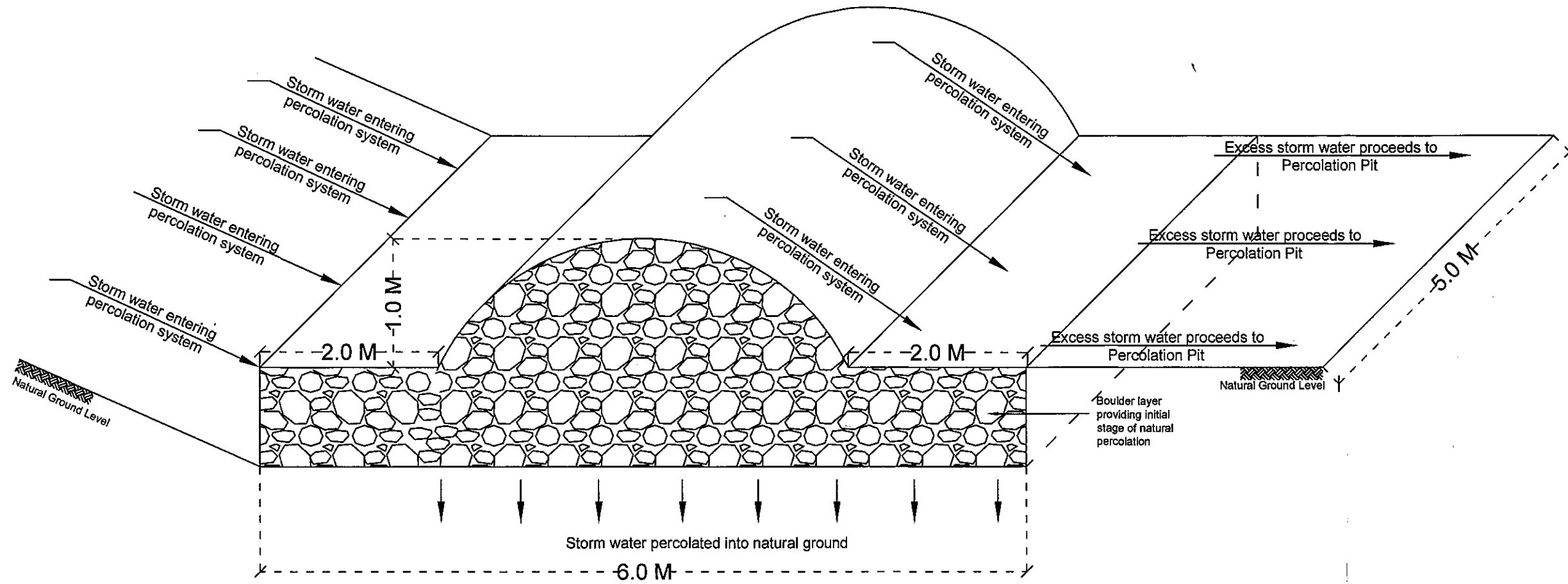


Sign of Engineer

Sign of PO /EO

Boulder check

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SECTION